

George M. Sheldrick: Publications list.

German titles have been translated into English.

1. Vibrational spectra of trisilylphosphine. Davidson, G., Ebsworth, E.A.V., Sheldrick, G.M. & Woodward, L.A. *Chem. Commun.* (1965) 122-123.
2. Chemical shift of the hydroxide ion. Sheldrick, G.M. *Chem. Commun.* (1966) 673-674.
3. Fermi resonance in BF_3 . Sheldrick, G.M. *J. Mol. Spectr.* **20** (1966) 295-296.
4. Vibrational spectra and structure of trisilylphosphine and trisilylphosphine- d_9 . Davidson, G., Ebsworth, E.A.V., Sheldrick, G.M. & Woodward, L.A. *Spectrochim. Acta* **A22** (1966) 67-76.
5. N.M.R. spectra of silicon hydride derivatives. Group V trisilyls. Ebsworth, E.A.V. & Sheldrick, G.M. *Trans. Faraday Soc.* **62** (1966) 3282-3286.
6. Crystal and molecular structure of mercury cobalt carbonyl. Sheldrick, G.M. & Simpson, R.N.F. *Chem. Commun.* (1967) 1015.
7. Nuclear magnetic resonance spectra of some hydride-anions. Sheldrick, G.M. *Trans. Faraday Soc.* **63** (1967) 1065-1070.
8. N.M.R. spectra of phosphine, arsine, and stibine. Ebsworth, E.A.V. & Sheldrick, G.M. *Trans. Faraday Soc.* **63** (1967) 1071-1076.
9. Second moment of the broad-line nuclear magnetic resonance absorption of a proton bonded to a quadrupolar nucleus. Sheldrick, G.M. *Mol. Phys.* **13** (1967) 399-400.
10. Determination of accurate unit-cell dimensions from inclined Weissenberg photographs. Alcock, N.W. & Sheldrick, G.M. *Acta Crystallogr.* **23** (1967) 35-38.
11. Molecular structures of $(\text{SiH}_3)_3\text{P}$ and $(\text{SiH}_3)_3\text{As}$. Beagley, B., Robiette, A.G. & Sheldrick, G.M. *Chem. Commun.* (1967) 601-602.
12. Metal-hydrogen bond lengths in pentacarbonyl manganese hydride and tetracarbonyl cobalt hydride. Sheldrick, G.M. *Chem. Commun.* (1967) 751-752.
13. Vibrational spectra and structure of trisilylarsine and trisilylstilbine. Davidson, G., Woodward, L.A., Ebsworth, E.A.V. & Sheldrick, G.M. *Spectrochim. Acta* **A23** (1967) 2609-2616.
14. Typical elements. Downs, A.J., Sheldrick, G.M. & Turner, J.J. *Annu. Rep. Progr. Chem.* **64** (1967) 219-282.
15. N.M.R. Study of the protonation of phosphine, hypophosphorous acid, and orthophosphorous acid. Sheldrick, G.M. *Trans. Faraday Soc.* **63** (1967) 1077-1082.

16. Crystal and molecular structure of bis(tetracarbonylmercury)cobalt. Sheldrick, G.M. & Simpson, R.N.F. *J. Chem. Soc. A* (1968) 1005-1009.
17. Nuclear magnetic resonance studies of mixed dihalogenosilanes and related species. Ebsworth, E.A.V., Lee, A.G. & Sheldrick, G.M. *J. Chem. Soc. A* (1968) 2294-2297.
18. Electron diffraction determination of the molecular structure of silylcobalt tetracarbonyl in the gas phase. Robiette, A.G., Sheldrick, G.M., Simpson, R.N.F., Aylett, B.J. & Campbell, J.A. *J. Organometal. Chem.* **14** (1968) 279-283.
19. Preparation and properties of trigermyl-arsine and -stibine. Ebsworth, E.A.V., Rankin, D.W.H. & Sheldrick, G.M. *J. Chem. Soc. A* (1968) 2828-2830.
20. Determination of the manganese-hydrogen bond length in $\text{HMn}(\text{CO})_5$ by gas-phase electron diffraction. Robiette, A.G., Sheldrick, G. M. & Simpson, R.N.F. *Chem. Commun.* (1968) 506-508.
21. The conformation of three disilazanes. Robiette, A.G., Sheldrick, G.M., Sheldrick, W.S., Beagley, B., Cruickshank, D.W.J., Monaghan, J.J., Aylett, B.J. & Ellis, I.A. *Chem. Commun.* (1968) 909-910.
22. Electron diffraction study of the molecular structure of trisilylphosphine. Beagley, B., Robiette, A.G. & Sheldrick, G.M. *J. Chem. Soc. A* (1968) 3002-3005.
23. Electron diffraction study of the molecular structure of trisilylarsine. Beagley, B., Robiette, A.G. & Sheldrick, G.M. *J. Chem. Soc. A* (1968) 3006-3008.
24. Preparation and properties of the methylsilylphosphines. Crosbie, K.D., Glidewell, C. & Sheldrick, G.M. *J. Chem. Soc. A* (1969) 1861-1864.
25. N.M.R. studies of mixed Group IV/Group VI hydrides. Glidewell, C., Rankin, D.W.H. & Sheldrick, G.M. *Trans. Faraday Soc.* **65** (1969) 1409-1412.
26. Proton magnetic resonance studies of tris(trimethylsilyl)thallium. Lee, A.G. & Sheldrick, G.M. *J. Chem. Soc. A* (1969) 1055-1057.
27. Phosphorus-31 nuclear electron Overhauser studies of phosphorus chalcogenides. Dwek, R.A., Richards, R.E., Taylor, D., Penney, G.J. & Sheldrick, G.M. *J. Chem. Soc. A* (1969) 935-937.
28. Analysis of the proton magnetic resonance spectra of phenol and thiophenol and their methyl, silyl, and germyl derivatives. Glidewell, C., Rankin, D.W.H. & Sheldrick, G.M. *Trans. Faraday Soc.* **65** (1969) 2801-2805.
29. Crystal structure of trimethyltin isothiocyanate. Forder, R.A. & Sheldrick, G.M. *J. Chem. Soc. D* (1969) 1125-1126.
30. Crystal and molecular structure of trimethylsilyl perrhenate, $\text{Me}_3\text{SiOReO}_3$. Sheldrick, G.M. & Sheldrick, W.S. *J. Chem. Soc. A* (1969) 2160-2163.

31. Crystal and molecular structure of tris[bis(trimethylsilyl)amino]aluminum, $\text{Al}[\text{N}(\text{SiMe}_3)_2]_3$. Sheldrick, G.M. & Sheldrick, W. S. *J. Chem. Soc. A* (1969) 2279-2282.
32. Molecular structure of N-methyldisilylamine. Glidewell, C., Rankin, D.W.H., Robiette, A.G. & Sheldrick, G.M. *J. Mol. Struct.* **4** (1969) 215-220.
33. Electron diffraction determination of the molecular structure of manganese pentacarbonyl hydride in the vapor phase. Robiette, A.G., Sheldrick, G.M. & Simpson, R.N.F. *J. Mol. Struct.* **4** (1969) 221-231.
34. Molecular structures of digermyl ether and digermyl sulfide. Glidewell, C., Rankin, D.W.H., Robiette, A.G., Sheldrick, G.M., Cradock, S., Ebsworth, E.A.V. & Beagley, B. *Inorg. Nucl. Chem. Lett.* **5** (1969) 417-419.
35. Molecular structure of iron pentacarbonyl ($\text{Fe}(\text{CO})_5$) in the gas phase. Beagley, B., Cruickshank, D.W.J., Pinder, P.M., Robiette, A.G. & Sheldrick, G.M. *Acta Crystallogr.* **B25** (1969) 737-744.
36. Electron diffraction determination of the molecular structure of disilazane. Rankin, D.W.H., Robiette, A.G., Sheldrick, G.M., Sheldrick, W.S., Aylett, B.J., Ellis, I.A., & Monaghan, J.J. *J. Chem. Soc. A* (1969) 1224-1227.
37. Electron diffraction study of phenyl silyl ether. Glidewell, C., Rankin, D.W.H., Robiette, A.G., Sheldrick, G.M., Beagley, B. & Freeman, J.M. *Trans. Faraday Soc.* **65** (1969) 2621-2627.
38. Electron diffraction determination of the molecular structures of trigermylphosphine and trisilylstibine in the gas phase. Rankin, D.W.H., Robiette, A.G., Sheldrick, G.M., Beagley, B., Hewitt, T.G. *J. Inorg. Nucl. Chem.* **31** (1969) 2351-2357.
39. Cyclopentadienyldimethylthallium. Lee, A.G. & Sheldrick, G.M. *J. Chem. Soc. D* (1969) 441-442.
40. Preparation and properties of mono- and disilylphosphine and mono- and disilyarsine. Glidewell, C. & Sheldrick, G.M. *J. Chem. Soc. A* (1969) 350-351.
41. Reactions of trisilylphosphine. Ebsworth, E.A.V., Glidewell, C. & Sheldrick, G.M. *J. Chem. Soc. A* (1969) 352-353.
42. Reactions of trimethylthallium with compounds containing an acidic hydrogen. Lee, A.G. & Sheldrick, G.M. *J. Organometal. Chem.* **17** (1969) 481-484.
43. Preparation and properties of tris(trimethylsilyl)thallium. Ebsworth, E.A.V., Lee, A.G. & Sheldrick, G.M. *J. Chem. Soc. A* (1969) 1052-1054.
44. Convenient preparation of the methylphosphines. Crosbie, K.D. & Sheldrick, G.M. *J. Inorg. Nucl. Chem.* **31** (1969) 3684-3685.

45. Preparation and properties of some trifluorosilyl pseudohalides. Airey, W. & Sheldrick, G.M. *J. Chem. Soc. A* (1969) 2865-2866.
46. Preparation and properties of some trifluorosilyl esters of perfluorocarboxylic acids. Airey, W. & Sheldrick, G.M. *J. Chem. Soc. A* (1970) 1222-1223.
47. Crystal structure of trimethylthallium. Sheldrick, G.M. & Sheldrick, W.S. *J. Chem. Soc. A* (1970) 28-30.
48. Crystal structure of trimethyltin isothiocyanate. Forder, R.A. & Sheldrick, G.M. *J. Organometal. Chem.* **21** (1970) 115-122.
49. Crystal and molecular structure of the orthorhombic modification of N,N-dimethyldithiocarbamatotrimethylstannane. Sheldrick, G.M. & Sheldrick, W.S. *J. Chem. Soc. A* (1970) 490-493.
50. Crystal and molecular structure of the monoclinic modification of N,N-dimethyldithiocarbamatotrimethylstannane. Sheldrick, G.M., Sheldrick, W.S., Dalton, R.F. & Jones, K. *J. Chem. Soc. A* (1970) 493-497.
51. Crystal structure of trimethylammonium iodide; refinement of absorption for a laminar crystal. Sheldrick, G.M. & Sheldrick, W.S. *Acta Crystallogr. B* **26** (1970) 1334-1338.
52. Crystal structure of dimethyltin diisothiocyanate. Forder, R.A. & Sheldrick, G.M. *J. Organometal. Chem.* **22** (1970) 611-617.
53. Crystal and molecular structure of tetraphosphorus triselenodiodide. Penney, G.J. & Sheldrick, G.M. *Acta Crystallogr. B* **26** (1970) 2092-2095.
54. Crystal structure of $(\text{Me}_3\text{Sn})_2\text{N}_2\text{C}$. Forder, R.A. & Sheldrick, G.M. *J. Chem. Soc. D* (1970) 1023.
55. Preparation and structures of thiazyl bis(trifluoromethyl)nitroxides: crystal structure of $[\text{N}(\text{SON}(\text{CF}_3)_2)_4]$. Sheldrick, G.M., Emeléus, H.J., Forder, R.A. & Poulet, R.J. *J. Chem. Soc. D* (1970) 1483.
56. Molecular structures of digermyl ether and digermyl sulfide in the gas phase, studied by electron diffraction. Glidewell, C., Rankin, D.W.H., Robiette, A.G., Sheldrick, G.M., Beagley, B. & Craddock, S. *J. Chem. Soc. A* (1970) 315-317.
57. Electron diffraction determination of the molecular structure of tetrasilylhydrazine. Glidewell, C., Rankin, D.W.H., Robiette, A.G. & Sheldrick, G.M. *J. Chem. Soc. A* (1970) 318-320.
58. Electron diffraction study of perfluorodisiloxane. Airey, W., Glidewell, C., Rankin, D.W.H., Robiette, A.G., Sheldrick, G.M. & Cruickshank, D.W.J. *Trans. Faraday Soc.* **66** (1970) 551-556.
59. Determination of the molecular structure of N-difluoroboryl-disilazane by electron diffraction. Robiette, A.G., Sheldrick, G.M. & Sheldrick, W.S. *J. Mol. Struct.* **5** (1970) 423-431.

60. Electron diffraction determination of the molecular structure of methyl silyl ether. Glidewell, C., Rankin, D.W.H., Robiette, A.G., Sheldrick, G.M., Beagley, B. & Freeman, J.M. *J. Mol. Struct.* **5** (1970) 417-422.
61. Gas-phase electron diffraction structure of tetrameric prosiloxane, $(\text{H}_2\text{SiO})_4$. Glidewell, C., Robiette, A.G. & Sheldrick, G.M. *J. Chem. Soc. D* (1970) 931-932.
62. Molecular structure of monomeric N-silyldimethylamine. Glidewell, C., Rankin, D.W.H., Robiette, A.G. & Sheldrick, G.M. *J. Mol. Struct.* **6** (1970) 231-239.
63. Preparation and properties of methoxytrifluorosilane, and study of its reactions with boron trihalides. Airey, W. & Sheldrick, G.M. *J. Inorg. Nucl. Chem.* **32** (1970) 1827-1829.
64. Mass spectrometric studies of the phosphorus sulfides. Sheldrick, G.M. & Penney, G.J. *J. Chem. Soc. A* (1971) 243-245.
65. NMR studies of some dimethylthallium compounds. Lee, A.G. & Sheldrick, G.M. *Trans. Faraday Soc.* **67** (1971) 7-11.
66. Heteronuclear double resonance studies of trisilylphosphine and trisilylstibine. Crosbie, K.D. & Sheldrick, G.M. *Mol. Phys.* **20** (1971) 317-320.
67. NMR spectra of some fluorosilyl amines. Airey, W., Sheldrick, G.M., Aylett, B.J. & Ellis, I.A. *Spectrochim. Acta* **A27** (1971) 1505-1506.
68. Crystal and molecular structure of tetraphosphorus pentaselenide. Sheldrick, G.M. & Penney, G.J. *J. Chem. Soc. A* (1971) 245-248.
69. Preparation and molecular structure of a new isomer of $\text{P}_4\text{S}_3\text{I}_2$: 3,5-diiodo-2,6,7-trithia-1,3,4,5-tetraphosphabicyclo[2.2.1]heptane. Sheldrick, G.M. & Penney, G.J. *J. Chem. Soc. A* (1971) 1100-1103.
70. Crystal structure of bis(trimethylstannyl)carbodiimide. Forder, R.A. & Sheldrick, G.M. *J. Chem. Soc. A* (1971) 1107-1109.
71. Crystal and molecular structure of tetraphenylsilane. Glidewell, C. & Sheldrick, G. M. *J. Chem. Soc. A* (1971) 3127-3129.
72. Crystal and molecular structure of tetrathiazyl tetra[bis(trifluoromethyl)nitroxide]. Forder, R.A. & Sheldrick, G.M. *J. Fluorine Chem.* **1** (1971) 23-29.
73. Crystal structure of piperidinium hexathiotetraarsenate. Porter, E.J. & Sheldrick, G.M. *J. Chem. Soc. A* (1971) 3130-3132.
74. Molecular structure of bis(trifluoromethyl)nitroxyl: an electron diffraction study. Glidewell, C., Rankin, D.W.H., Robiette, A.G., Sheldrick, G.M. & Williamson, S.M. *J. Chem. Soc. A* (1971) 478-481.

75. Molecular structure of N-silylpyrrole. Glidewell, C., Robiette, A.G. & Sheldrick, G.M. *J. Mol. Struct.* **9** (1971) 476-478.
76. Electron diffraction study of the molecular structure of bis(trifluoromethyl) monoselenide. Marsden, C.J. & Sheldrick, G.M. *J. Mol. Struct.* **10** (1971) 405-412.
77. Electron diffraction determination of the molecular structure of bis(trifluoromethyl) diselenide. Marsden, C.J. & Sheldrick, G.M. *J. Mol. Struct.* **10** (1971) 419-425.
78. Electron diffraction determination of the molecular structure of trifluoromethyl selenium cyanide. Marsden, C.J. & Sheldrick, G.M. *J. Mol. Struct.* **10** (1971) 413-418.
79. Electron diffraction determination of the molecular structures of perchlorodisiloxane and methoxytrifluorosilane. Airey, W., Glidewell, C., Robiette, A.G. & Sheldrick, G.M. *J. Mol. Struct.* **8** (1971) 413-422.
80. Electron diffraction determination of the molecular structures of trichloro- and trifluorosilyl-dimethylamine. Airey, W., Glidewell, C., Robiette, A.G., Sheldrick, G.M. & Freeman, J.M. *J. Mol. Struct.* **8** (1971) 423-433.
81. Electron diffraction determination of the molecular structure of trifluorosilyl isocyanate. Airey, W., Glidewell, C., Robiette, A.G. & Sheldrick, G.M. *J. Mol. Struct.* **8** (1971) 435-442.
82. Electron diffraction study of large amplitude vibrations in silyl isocyanate and silyl isothiocyanate. Glidewell, C., Robiette, A.G. & Sheldrick, G.M. *Chem. Phys. Lett.* **16** (1972) 526-529.
83. Crystal structure of a new crystalline modification of tetraarsenic tetrasulfide (2,4,6,8-tetrathia-1,3,5,7-tetraarsa-tricyclo[3,3,0,0^{3,7}]-octane. Porter, E.J. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1972) 1347-1349.
84. Crystal and molecular structure of phenyl(triphenylsilyl)diazomethane. Glidewell, C. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1972) 2409-2412.
85. Crystal and molecular structure of bis{ μ -[(trifluoromethyl)seleno]manganese tetracarbonyl}. Marsden, C.J. & Sheldrick, G.M. *J. Organometal. Chem.* **40** (1972) 175-181.
86. Molecular structures of silylphosphine, silylmethylphosphine, and silyldimethylphosphine. Electron diffraction study. Glidewell, C., Pinder, P.M., Robiette, A.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1972) 1402-1405.
87. Molecular structure of bis(trifluoromethyl)hydroxylamine. Electron diffraction study. Glidewell, C., Marsden, C.J., Robiette, A.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1972) 1735-1737.
88. Crystal and molecular structure of 17 β -hydroxyandrost-4-en-3-one (testosterone). Roberts, P.J., Petterson, R.C., Sheldrick, G.M., Isaacs, N.W. & Kennard, O. *J. Chem. Soc., Perkin Trans. 2* (1973) 1978-1984.

89. Piperidinium hydrogen sulfide. Smail, E.J. & Sheldrick, G.M. *Acta Crystallogr. B* **29** (1973) 2027-2028.
90. Tetraarsenic tetraselenide. Smail, E. J. & Sheldrick, G.M. *Acta Crystallogr. B* **29** (1973) 2014-2016.
91. Reaction of benzylideneacetone with (cyclo-octa-1,5-diene)tricarbonylruthenium. Domingos, A.J.P., Johnson, B.F.G., Lewis, J. & Sheldrick, G.M. *Chem. Commun.* (1973) 912-913.
92. Crystal structure of polymeric tris(trimethyltin) chromate hydroxide. Domingos, A.M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1974) 477-480.
93. Crystal structure of triphenyltin isothiocyanate. Domingos, A.M. & Sheldrick, G.M. *J. Organometal. Chem.* **67** (1974) 257-263.
94. Crystal structure of N-(trimethylstannyl)-N-nitromethylamine. Domingos, A.M. & Sheldrick, G.M. *J. Organometal. Chem.* **69** (1974) 207-212.
95. Crystal structure of tris- μ -[2,5-di(2-pyridyl)-3,4-diazahexa-2,4-diene]-dicobalt(II) di[aquatrichlorozincate(II) tetrachlorozincate(II) tetrahydrate. A helical binuclear cobalt(II) cation. Boyd, P.D.W., Gerloch, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1974) 1097-1102.
96. Bis(dioxane) potassium bis(trimethylsilyl)amide. Domingos, A.M. & Sheldrick, G.M. *Acta Crystallogr. B* **30** (1974) 517-519.
97. Trimethyltin methoxide. Domingos, A.M. & Sheldrick, G.M. *Acta Crystallogr. B* **30** (1974) 519-521.
98. Crystal and molecular structure of dimeric dimethyltin nitrate hydroxide [di- μ -hydroxobis(dimethylnitratotin)]. Domingos, A.M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1974) 475-477.
99. Crystal and molecular structure of ~~###~~⁶-6-azidobetamethasone-21-acetate. Nassimbeni, L.R., Sheldrick, G.M. & Kennard, O. *Acta Crystallogr. B* **30** (1974) 2401-2406.
100. Cobaloxime and 1,1-bis(p-chlorophenyl)-2,2,2-trichloroethane (DDT). X-ray crystal structure of an unexpected vinyl-cobalt(III) complex. Prince, R.H., Sheldrick, G.M., Stotter, D.A. & Taylor, R. *Chem. Commun.* (1974) 854-855.
101. Dinitrosylbis(triphenylphosphine)ruthenium. Bhaduri, S. & Sheldrick, G.M. *Acta Crystallogr. B* **31** (1975) 897-899.
102. 2,7-Dimethyl-5-acetylaminopyrazolo[1,5- α]pyrimidine. Ballard, R.E., Norris, E.K. & Sheldrick, G.M. *Acta Crystallogr. B* **31** (1975) 295-296.
103. Crystal structure of $[(\text{CH}_3)_2\text{S}]_2\text{N}^+\text{Br}^-\cdot\text{H}_2\text{O}$. Griffin, A.M. & Sheldrick, G.M. *Acta Crystallogr. B* **31** (1975) 893-894.

104. Crystal structure of nonacarbonyl- μ^3 -ethylidyne-tri- μ -hydrido-triruthenium. Sheldrick, G.M. & Yesinowski, J.P. *J. Chem. Soc., Dalton Trans.* (1975) 873-876.
105. Tetrasulfur tetranitride bis(norbornadiene). Griffin, A.M. & Sheldrick, G.M. *Acta Crystallogr. B31* (1975) 895-896.
106. Crystal and molecular structure of (2-acetylpyridine) [9-(2-pyridyl)-4,8-diazadec-8-en-1-amine]-nickel(II) diperchlorate. Sheldrick, G.M. & Stotter, D.A. *J. Chem. Soc., Dalton Trans.* (1975) 666-668.
107. Crystal and molecular structure of triphenylsilicon isothiocyanate. Sheldrick, G.M. & Taylor, R. *J. Organomet. Chem.* **87** (1975) 145-150.
108. Proton and thallium-203 and -205 nuclear magnetic resonance and INDOR [induced nuclear double resonance] studies of dimeric dimethylthallium derivatives. Sheldrick, G.M. & Yesinowski, J.P. *J. Chem. Soc., Dalton Trans.* (1975) 870-873.
109. Crystal and molecular structure of bis(triphenylsilicon) carbodiimide. Sheldrick, G.M. & Taylor, R. *J. Organomet. Chem.* **101** (1975) 19-25.
110. α -Flupenthixol. Post, M.L., Kennard, O., Sheldrick, G.M. & Horn, A.S. *Acta Crystallogr. B31* (1975) 2366-2368.
111. β -Tetraphosphorus pentasulfide. Griffin, A.M. & Sheldrick, G.M. *Acta Crystallogr. B31* (1975) 2738-2740.
112. Trimethyllead acetate. Sheldrick, G.M. & Taylor, R. *Acta Crystallogr. B31* (1975) 2740-2741.
113. Tetraphenylarsonium tetrachloroaurate(III). Jones, P.G. Guy, J.J. & Sheldrick, G.M. *Acta Crystallogr. B31* (1975) 2687-2688.
114. Preparation and crystal and molecular structure of [1-chloro-2,2-bis(p-chlorophenyl)-vinyl]bis(dimethylglyoximate)pyridinecobalt(III). Stotter, D.A., Sheldrick, G.M. & Taylor, R. *J. Chem. Soc., Dalton Trans.* (1975) 2124-2128.
115. The structure of aliphatic amine adducts of uranyl acetylacetonate. Dioxobis(2,4-pentanedionato)mono-(2-N-methylaminopentan-4-one)uranium(VI). Haigh, J.M., Nassimbeni, L.R., Paupit, R.A., Rodgers, A.L. & Sheldrick, G.M. *Acta Crystallogr. B32* (1976) 1398-1401.
116. The crystal and molecular structure of 3,6-di-(2-pyridyl)-1,4-dihydro-1,2,4,5-tetrazine. Caira, M.R., Giles, R.G.F., Nassimbeni, L.R., Sheldrick, G.M. & Hazell, R.G. *Acta Crystallogr. B32* (1976) 1467-1469.
117. Synthesis and x-ray structure of an osmium carbonyl anion $[\text{HOs}_3(\text{CO})_{10}\text{O}_2\text{C}\text{-Os}_6(\text{CO})_{17}]^-$. Eady, C.R., Guy, J.J., Johnson, B.F.G., Lewis, J., Malatesta, M.C. & Sheldrick, G.M. *Chem. Commun.* (1976) 602-604.

118. N,N-Dimethylspiro[5H-dibenzo[a,d]cycloheptene-5,1'-cyclohexane]-4'-amine. Rodgers, J.R., Kennard, O., Sheldrick, G.M. & Horn, A.S. *Acta Crystallogr. B* **32** (1976) 1293-1295.
119. Hexadecacarbonylpentaosmium: crystal x-ray and molecular structure. Eady, C.R., Johnson, B.F.G., Lewis, J., Reichert, B.E. & Sheldrick, G.M. *Chem. Commun.* (1976) 271-272.
120. Two new molecular phosphorus sulfides: α -P₄S₄ and β -P₄S₄, x-ray crystal structure of α -P₄S₄. Griffin, A.M., Minshall, P.C. & Sheldrick, G.M. *Chem. Commun.* (1976) 809-810.
121. (5-exo-Triphenylphosphinocyclohexa-1,3-diene)tricarbonyliron tetrafluoroborate. Guy, J.J., Reichert, B.E. & Sheldrick, G.M. *Acta Crystallogr. B* **32** (1976) 2504-2506.
122. Potassium closo-tetradecanitrogen dodecathio dodecaphosphate(6-), K₆[P₁₂S₁₂N₁₄]. Fluck, E., Lang, M., Horn, F., Haedicke, E. & Sheldrick, G.M. *Z. Naturforsch.* **B31** (1976) 419-426.
123. Synthesis of [Os₅(CO)₁₅]²⁻, [HOs₅(CO)₁₅]⁻, and [H₂O₅(CO)₁₅], x-ray crystal structure of [(Ph₃P)₂N]⁺[HOs₅(CO)₁₅]⁻. Eady, C.R., Guy, J.J., Johnson, B.F.G., Lewis, J., Malatesta, M.C. & Sheldrick, G.M. *Chem. Commun.* (1976) 807-809.
124. The crystal and molecular structure of cholest-4-en-3-one. Sheldrick, G.M., Oeser, E., Caira, M.R., Nassimbeni, L.R. & Pauptit, R.A. *Acta Crystallogr. B* **32** (1976) 1984-1987.
125. Bis(ethylenethiourea)gold(I) chloride hydrate. Jones, P.G., Guy, J.J. & Sheldrick, G.M. *Acta Crystallogr. B* **32** (1976) 3321-3322.
126. (2RS,SRS)-3-methyl-3-phenylsulphinylbutan-2-ol. Allen, F.H., Kennard, O., Sheldrick, G.M. & Oeser, E. *Acta Crystallogr. B* **32** (1976) 274-276.
127. Cytidinium nitrate. Guy, J.J., Nassimbeni, L.R., Sheldrick, G.M. & Taylor, R. *Acta Crystallogr. B* **32** (1976) 2909-2911.
128. Bis(diphenylmethylphosphine)gold(I) hexafluorophosphate. Guy, J.J., Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr. B* **32** (1976) 1937-1938.
129. μ -But-1-enyl- μ -hydrido-decacarbonyl-triangulo-triosmium. Guy, J.J., Reichert, B.E. & Sheldrick, G.M. *Acta Crystallogr. B* **32** (1976) 3319-3320.
130. Trimethyltin methylsulfinate. Sheldrick, G.M. & Taylor, R. *Acta Crystallogr. B* **33** (1977) 135-137.
131. Methyl(triphenylphosphine)gold. Gavens, P.D., Guy, J.J., Mays, M.J. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 137-139.
132. Nitrosyl coupling in transition metal complexes: the molecular structure of [(Ph₃P)₂Pt(N₂O₂)]. Bhaduri, S., Johnson, B.F.G., Pickard, A., Raithby, P.R., Sheldrick, G.M. & Zuccaro, C.I. *Chem. Commun.* (1977) 354-355.

133. [2'-(2-Formyl-4-nitroanilino)ethyl]dimethylammonium fluoroborate. Guy, J.J. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 224-225.
134. Dibromo(N-tetrakis-4-pyridinecarbaldehyde)cobalt(II). Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 154-155.
135. The crystal and molecular structure of 21 α -methoxy- Δ^{13} -serraten-3 β -ol: the conformation of the Δ^{13} -serratenene system. Allen, F.H., Kennard, O. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 1230-1235.
136. Tetra- μ -benzoato-bis(4-methylquinoline)dnicobalt(II). Davies, J.E., Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 156-158.
137. The crystal structure of Δ^6 -cholesten-3-one. Guy, J.J., Allen, F.H., Kennard, O. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 1236-1244.
138. Dipiperidine disulfide. Minshall, P.C. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 160-162.
139. Di- μ -cyclononaallyl-hexacarbonyldiosmium. Reichert, B.E. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 175-177.
140. Trifluoromethylselenium trichloride. Marsden, C.J., Sheldrick, G.M. & Taylor, R. *Acta Crystallogr. B* **33** (1977) 139-141.
141. Hexadecacarbonylpentaosmium. Reichert, B.E. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 173-175.
142. Some piperidine derivatives of gold(I): crystal and molecular structure of chloro(piperidine)gold(I). Guy, J.J., Jones, P.G., Mays, M.J. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1977) 8-10.
143. 3,4,5,6-tetrahydro-2,9-dimethyl-7-hydroxy-5-isopropyl-2,6-methano-2H-1-benzoxocin. Jones, P.G., Kennard, O. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 1982-1985.
144. 2-Deoxy-12-oxolemnacarnol, a case of twinning. Losman, D., Karlsson, R. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 1959-1962.
145. Tricarbonyl[8-acetyl-2-4:6-7- η -bicyclo[3.2.1]octadienylium]-iron, a novel rearrangement in the acylation of tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]-iron. Charles, A.D., Diversi, P., Johnson, B.F.G., Karlin, K.D., Lewis, J., Rivera, A.V. & Sheldrick, G.M. *J. Organomet. Chem.* **128** (1977) C31-C34.
146. Crystal and molecular structure of 2a,3,4,5,6,7,8,8b-octafluoro-2-methyl-2-(2-methylprop-1-enyl)-1,2,2a,8b-tetrahydrocyclobuta[a]naphthalene. Jones, P.G., Kennard, O., Sheldrick, G.M. & Libman, J. *J. Chem. Soc., Perkin Trans. 2* (1977) 1985-1989.
147. Cannabidiol. Jones, P.G., Falvello, L., Kennard, O., Sheldrick, G.M. & Mechoulam, R. *Acta Crystallogr. B* **33** (1977) 3211-3214.

148. 1,6-Dimethyl-8 β -[(benzyloxycarbonyl)aminomethyl]-10 α -ergoline, 'Lyserdol'. Foresti Serantoni, E., Sabatino, P., Riva di Sanseverino, L. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 2899-2902.
149. Dicyclohexylammonium arsonomethylphosphonate. Falvello, L., Jones, P.G., Kennard, O. & Sheldrick, G.M. *Acta Crystallogr. B* **33** (1977) 3207-3209.
150. Structure and fluxional behavior of μ -diphenylacetylene-closo-tetrakis(tricarbonylruthenium)(4Ru-Ru). Johnson, B.F.G., Lewis, J., Reichert, B.E., Schorpp, K.T. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1977) 1417-1419.
151. Unconventional reaction of diazomethane with 1,3,6-trihydroxy-2-methyl-4-nitrobenzene, x-ray crystal structure of (E)-3,6-dihydroxy-2-methyl-1,4-benzoquinone 4-methoxyimine N-oxide. Jones, P.G., Kennard, O., Sheldrick, G.M., Raphael, R.A. & Ravenscroft, P. *Chem. Commun.* (1977) 471-472.
152. The crystal and molecular structures of two cyclobuta-steroids: 4',4'-dichloro-2 β ,3 β -dihydrocyclobuta[2,3]5 α -cholestan-3'(4'H)-one (I) and 3',3'-dichloro-2 β ,3 β -dihydrocyclobuta[2,3]-5 α -cholestan-4'(3'H)-one (II). Nassimbeni, L.R., Orpen, A.G., Sheldrick, G.M., Van Niekerk, J.C. & Cragg, G.M.L. *Acta Crystallogr. B* **33** (1977) 3326-3332.
153. Structure of vancomycin and its complex with acetyl-D-alanyl-D-alanine. Sheldrick, G.M., Jones, P.G., Kennard, O., Williams, D.H. & Smith, G.A. *Nature (London)* **271** (1978) 223-225.
154. 1,1,1,2,2,2,3,3,3,3-Undecacarbonyl(trimethylphosphite)-triangulo-triosmium. Benfield, R.E., Johnson, B.F.G., Raithby, P.R. & Sheldrick, G.M. *Acta Crystallogr. B* **34** (1978) 666-667.
155. Crystal refrigeration. Bellard, S. & Sheldrick, G.M. *Acta Crystallogr. B* **34** (1978) 1043-1044.
156. 1-Phospha-2,10-dioxabicyclo[4.4.0]decane 1-oxide. Bellard, S., Postle, S.R. & Sheldrick, G.M. *Acta Crystallogr. B* **34** (1978) 1032-1033.
157. N-Methyl-S,S-difluorosulfoximine-arsenic pentafluoride. Bellard, S., Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B* **34** (1978) 1034-1035.
158. α -Tetraphosphorus tetrasulfide. Minshall, P.C. & Sheldrick, G.M. *Acta Crystallogr. B* **34** (1978) 1326-1328.
159. Pyridinium 2,2,5,5-tetrathio-cyclo-di(phosphadithianate), [(pyridine)₂H]₂²⁺[P₂S₈]²⁻. Minshall, P.C. & Sheldrick, G.M. *Acta Crystallogr. B* **34** (1978) 1378-1380.
160. Isocyanide substitution in octadecacarbonyl hexaosmium. Eady, C.R., Gavens, P.D., Johnson, B.F.G., Lewis, J., Malatesta, M.C., Mays, M.J., Orpen, A.G., Rivera, A.V., Sheldrick, G.M. & Hursthouse, M.B. *J. Organomet. Chem.* **149** (1978) C43-C46.
161. bis(Triphenylphosphine oxide) hydronium tetrachloroaurate(III). Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr. B* **34** (1978) 1353-1355.

162. Synthesis and molecular structure of $[\text{Os}_6(\text{CO})_{16}(\text{CMe})_2]$ and $[\text{Os}_6(\text{CO})_{16}(\text{MeC:CMeC})]$, derivatives of ethylene and hexaosmium octadecacarbonyl. Eady, C.R., Fernandez, J.M., Johnson, B.F.G., Lewis, J., Raithby, P.R. & Sheldrick, G.M. *Chem. Commun.* (1978) 421-423.
163. bis(Triphenylphosphine)iminium μ -hydrido-decacarbonyltriosmium- μ -carboxylato-heptadecacarbonylhexaosmate, $[(\text{Ph}_3\text{P})_2\text{N}]^+[\text{HOs}_3(\text{CO})_{10}\cdot\text{O}_2\text{C}\cdot\text{Os}_6(\text{CO})_{17}]^-$. Guy, J.J. & Sheldrick G.M. *Acta Crystallogr. B34* (1978) 1718-1722.
164. bis(Triphenylphosphine)iminium μ -hydrido-pentadecacarbonylpentaoxmate, $[(\text{Ph}_3\text{P})_2\text{N}]^+[\text{HOs}_5(\text{CO})_{15}]^-$. Guy, J.J. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1722-1725.
165. bis(tert-Butylisocyanide)hexadecacarbonylhexaosmium. Orpen, A.G. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1989-1991.
166. $[\text{Ir}_4(\text{CO})_8\{(\text{MeCO}_2)_2\text{C}_2\}_4]$: a rectangular cluster. Heveldt, P.F., Johnson, B.F.G., Lewis, J., Raithby, P.R. & Sheldrick, G.M. *Chem. Commun.* (1978) 340-341.
167. bis(p-Tolylisocyanide)octadecacarbonylhexaosmium. Rivera, A.V., Sheldrick, G.M. & Hursthouse, M.B. *Acta Crystallogr. B34* (1978) 1985-1988.
168. Di- μ -hydrido-hexadecacarbonylpentaoxmium. Guy, J.J. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1725-1727.
169. The stereochemistry of (5-exo-acylcyclohexa-1,3-diene)tricarbonyliron derivatives and the crystal structure of (5-exo-cyanocyclohexa-1,3-diene)tricarbonyliron. Johnson, B.F.G., Lewis, J., Parker, D.G., Raithby, P.R. & Sheldrick, G.M. *J. Organomet. Chem.* **150** (1978) 115-122.
170. Carbidotetradecacarbonylhydrido(dimethylphosphonato)pentaoxmium, $\text{HOs}_5\text{C}(\text{CO})_{14}[\text{OP}(\text{OCH}_3)_2]$. Fernandez, J.M., Johnson, B.F.G., Lewis, J., Raithby, P.R. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1994-1997.
171. (E)-3,6-Dihydroxy-2-methyl-1,4-benzoquinone 4-methoxyimine N-oxide. Jones, P.G., Kennard, O. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1029-1031.
172. 1-Phenyl-1,1'-spirobi[3H-2,1-benzoxaphosphole]-3,3'-dione. Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1391-1393.
173. Carbidotridecacarbonylhydrido(trimethyldiphosphito)pentaoxmium, $\text{HOs}_5\text{C}(\text{CO})_{13}[\text{OP}(\text{OCH}_3)_2]$. Orpen, A.G. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1992-1994.
174. The crystal and molecular structure of a mineral diterpene, bombiccite, $\text{C}_{20}\text{H}_{34}$. Foresti Serantoni, E., Krajewski, A., Mongiorgi, R., Riva di Sanseverino, L. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1311-1316.
175. $\{2\text{-}4\text{-}6\text{-}7\text{-}\eta\text{-}(8\text{-Acetyl}\text{bicyclo}[3.2.1]\text{octadienylium})\}$ tricarbonyliron hexafluorophosphate. Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B34* (1978) 1716-1718.

176. Some reactions of dodecacarbonyltetrahydridotetraosmium: the molecular and crystal structure of trihydrido- μ_2 -iodo-cyclo-tetrakis(tricarbonylosmium)(4Os-Os). Johnson, B.F.G., Lewis, J., Raithby, P.R., Sheldrick, G.M., Wong, K. & McPartlin, M. *J. Chem. Soc., Dalton Trans.* (1978) 673-676.
177. Decarbonyl- μ -hydrido- μ -vinyl-triangulo-triosmium: a combined x-ray and neutron diffraction study. Orpen, A. Guy, Pippard, D., Sheldrick, G.M. & Rouse, K.D. *Acta Crystallogr. B***34** (1978) 2466-2472.
178. 1,3-Dipolar cycloaddition reactions of imines of α -amino-acid esters: x-ray crystal and molecular structure of methyl 4-(2-furyl)-2,7-diphenyl-6,8-dioxo-3,7-diazabicyclo[3.3.0]octane-2-carboxylate. Grigg, R., Kemp, J., Sheldrick, G.M. & Trotter, J. *Chem. Commun.* (1978) 109-111.
179. The structure of bilirubin. Bonnett, R., Davies, J.E., Hursthouse, M.B. & Sheldrick, G.M. *Proc. R. Soc. London* **B202** (1978) 249-268.
180. Methyl 4,6-O-benzylidene-2,3-dideoxy-2,3-diphenylazo- α -D-mannoside. Sheldrick, G.M., Davison, B.E. & Trotter, J. *Acta Crystallogr. B***34** (1978) 1387-1389.
181. Crystal structure of d(A-T)₂ and sequence specific DNA-protein recognition. Viswamitra, M.A., Kennard, O., Shakked, Z., Jones, P.G., Sheldrick, G.M., Salisbury, S. & Falvello, L. *Curr. Sci.* **47** (1978) 289-292.
182. The crystal and molecular structure of 2',3',5',-tri-O-acetyl-(6-O-mesitylenesulfonyl)guanosine. Neidle, S., Achari, A., Sheldrick, G.M., Reese, C.B. & Bridson, P.K. *Acta Crystallogr. B***34** (1978) 2794-2798.
183. 5,6,7,8,15,16,17,18-Octahydrodibenzo[e,o][1,4,8,13]tetraazacyclohexadecene. Sheldrick, G.M. & Trotter, J. *Acta Crystallogr. B***34** (1978) 3122-3124.
184. Octacarbonyl-1,1-dinitrosyl-1-(trimethylphosphite)-triangulo-triosmium. Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B***34** (1978) 3372-3374.
185. Bridging hydrides in [H₂Os₃(CO)₁₀] and [(C₂H₃)HOs₃(CO)₁₀]: a combined x-ray-neutron diffraction study. Orpen, A.G., Rivera, A.V., Bryan, E.G., Pippard, D., Sheldrick, G.M. & Rouse, K.D. *Chem. Commun.* (1978) 723-724.
186. Tricarbonyl {3-4:6-7- η -(2-isopropyl-8-benzoylbicyclo[3.2.1]octadiene)}thioiron. Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B***34** (1978) 3374-3376.
187. Bis(triphenylphosphine)iminium pentadecacarbonyliodopentaosmate. Rivera, A.V., Sheldrick, G.M. & Hursthouse, M.B. *Acta Crystallogr. B***34** (1978) 3376-3379.
188. The reduction of triosmium dodecacarbonyl by sodium borohydride. The preparation and x-ray structure of the cluster anion [H₂Os₄(CO)₁₂]²⁻. Johnson, B.F.G., Lewis, J., Raithby, P.R., Sheldrick, G.M. & Süß, G. *J. Organomet. Chem.* **162** (1978) 179-187.

189. DNA double helical fragment at atomic resolution. Viswamitra, M.A., Kennard, O., Jones, P.G., Sheldrick, G.M., Salisbury, S., Falvello, L. & Shakked, Z. *Nature (London)* **273** (1978) 687-688.
190. SHELX. Sheldrick, G.M. *Comput. Crystallogr.* (1978) 34-42. Edited by: Schenk, H., Olthof-Hazekamp, R. & Van Koningsveld, H. Delft Univ. Press: Delft.
191. Some reactions of dodecacarbonyltetrahydridotetraosmium with olefins, the molecular structure of 1,1,1,2,2,3,3,3,4,4,4-undecacarbonyl-1,2- μ -(1'- σ ,1'-2'- η -cyclohexenyl)-tri- μ -hydridotetrahydrotetraosmium. Bhaduri, S., Johnson, B.F.G., Kelland, J.W., Lewis, J., Raithby, P.R., Rehani, S., Sheldrick, G.M., Wong, K. & McPartlin, M. *J. Chem. Soc., Dalton Trans.* (1979) 562-568.
192. X-ray and neutron diffraction study of 1,1,1,2,2,2,3,3,3-nonacarbonyl-1,2,1,3-di- μ -hydrido- μ_3 -sulfido-triangulo-triosmium. Johnson, B.F.G., Lewis, J., Pippard, D., Raithby, P.R., Sheldrick, G.M. & Rouse, K.D. *J. Chem. Soc., Dalton Trans.* (1979) 616-618.
193. Crystal and molecular structure of vanadium hexacarbonyl. Bellard, S., Rubinson, K.A. & Sheldrick, G.M. *Acta Crystallogr.* **B35** (1979) 271-274.
194. Stable coordination compounds of thiazylfluoride: crystal structure of $[\text{Co}(\text{NSF})_6]^{2+}$. Buss, B., Jones, P.G., Mews, R., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **91** (1979) 253; *Angew. Chem. Int. Ed. Engl.* **18** (1979) 231.
195. The reaction of ethoxyquin (6-ethoxy-1,2-dihydro-2,2,4-trimethylquinoline) with nitrous acid. Bonnett, R., Charalambides, A.A., Hursthouse, M.B., Malik, K.M.A., Nicolaidou, P. & Sheldrick, G.M. *J. Chem. Soc., Perkin Trans. 1* (1979) 488-495.
196. 7,11b-Dihydro-11b-isopropyl-2-methoxy-3,4-diphenyl-2H,6H-[1,3]thiazino[2,3-a]isoquinoline. Preut, H., Eicher, T., Krause, D. & Sheldrick, G.M. *Acta Crystallogr.* **B35** (1979) 1285-1287.
197. Methyl 4-(2-furyl)-6,8-dioxo-2,7-diphenyl-3,7-diazabicyclo[3.3.0]octane-2-carboxylate. Sheldrick, G.M. & Trotter, J. *Acta Crystallogr.* **B35** (1979) 250-253.
198. Bis(triphenylmethyl) peroxide. Glidewell, C., Liles, D.C., Walton, D.J. & Sheldrick, G.M. *Acta Crystallogr.* **B35** (1979) 500-502.
199. Gold(III) oxide. Jones, P.G., Rumpel, H., Schwarzmann, E., Sheldrick, G.M. & Paulus, H. *Acta Crystallogr.* **B35** (1979) 1435-1437.
200. 3-tert-Butyl-5-methyl-2,3-diphenyl-1,2-diaza-3-sila-5-cyclopentene. Clegg, W., Noltemeyer, M. & Sheldrick, G.M. *Acta Crystallogr.* **B35** (1979) 2243-2244.
201. Gold(III) chloride oxide. Jones, P.G., Rumpel, H., Schwarzmann, E. & Sheldrick, G.M. *Acta Crystallogr.* **B35** (1979) 2380-2381.
202. Preparation and molecular structure of 1,3,5,7-tetraaza-2,4,6,8-tetrasila-bicyclo[3.3.0]octane. Clegg, W., Hluchy, H., Klingebiel, U. & Sheldrick, G.M. *Z. Naturforsch.* **B34** (1979) 1260-1263.

203. Potassium dicyanoaurate(I)-2,2'-bipyridyl complex. Jones, P.G., Clegg, W. & Sheldrick, G.M. *Acta Crystallogr. B* **36** (1980) 160-162.
204. Arsenic dioxide. Jones, P.G., Beesk, W., Sheldrick, G.M. & Schwarzmann, E. *Acta Crystallogr. B* **36** (1980) 439-440.
205. Loganin. Jones, P.G., Sheldrick, G.M., Glüenkamp, K.H. & Tietze, L.F. *Acta Crystallogr. B* **36** (1980) 481-483.
206. Stereocontrolled intramolecular Diels-Alder reaction of heterodienes, studies on the synthesis of cannabinoids. Tietze, L.F., Von Kiedrowski, G., Harms, K., Clegg, W. & Sheldrick, G.M. *Angew. Chem.* **92** (1980) 130-131; *Angew. Chem. Int. Ed. Engl.* **19** (1980) 134-135.
207. 1,3-Migration of silyl groups in the Si₂NSiN structure - synthesis and molecular structure of 1,3-diaza-2,4-disilacyclobutanes. Clegg, W., Klingebiel, U., Krampe, C. & Sheldrick, G.M. *Z. Naturforsch. B* **35** (1980) 275-281.
208. Gold(III) oxide and oxychloride. Jones, P.G., Rumpel, H., Sheldrick, G.M. & Schwarzmann, E. *Gold Bull.* **13** (1980) 56.
209. X-ray crystal structures of bridged porphyrins. Cruse, W.B., Kennard, O., Sheldrick, G.M., Hamilton, A.D., Hartley, S.G. & Battersby, A.R. *Chem. Commun.* (1980) 700-701.
210. Crystal and molecular structure of [N(CH₃)₄]₂[Mo₂O₂S₂(S₂)₂]: a compound with two S₂²⁻ ligands. Clegg, W., Mohan, N., Müller, A., Neumann, A., Rittner, W. & Sheldrick, G.M. *Inorg. Chem.* **19** (1980) 2066-2069.
211. The crystal structure of [tris[(2-methyl-8-quinolyloxy)ethyl]amine]rubidium iodide. Weber, G. & Sheldrick, G.M. *Inorg. Chim. Acta* **45** (1980) L35-L36.
212. Antimony(III) arsenic(V) oxide. Jones, P.G., Sheldrick, G.M. & Schwarzmann, E. *Acta Crystallogr. B* **36** (1980) 1923-1925.
213. A non-symmetric water complex of a tripod ligand: the structure of tris[(2-methyl-8-quinolyloxy)ethyl]amine dihydrate. Weber, G. & Sheldrick, G.M. *Acta Crystallogr. B* **36** (1980) 1978-1980.
214. 2,4,6-Trifluoro-1,3,5-trimethyl-2,4,6-triphenylcyclotrisilazane. Clegg, W., Noltemeyer, M., Sheldrick, G.M. & Vater, N. *Acta Crystallogr. B* **36** (1980) 2461-2462.
215. Bis(tetraethylammonium) di-μ-sulfidobis[oxo(disulfido)molybdenum]. Clegg, W., Sheldrick, G.M., Garner, C.D. & Christou, G. *Acta Crystallogr. B* **36** (1980) 2784-2786.
216. Ring contraction (8→5) in the eight-membered S₄N₄O₂. Roesky, H.W., Witt, M., Clegg, W., Isenberg, W., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **92** (1980) 959-960; *Angew. Chem. Int. Ed. Engl.* **19** (1980) 943-944.

217. N-phenyl-4,7,10,13-tetraoxa-1-aza-cyclopentadecane sodium perchlorate, $C_{16}H_{25}ClNNaO_8$. Weber, G., Sheldrick, G.M., Dix, J.P. & Vögtle, F. *Cryst. Struct. Commun.* **9** (1980) 1157-1162.
218. Crystal structure of hexakis(thiazylfluoride)nickel(II)hexafluoroarsenate. Hartmann, G., Jones, P.G., Mews, R. & Sheldrick, G.M. *Z. Naturforsch.* **B35** (1980) 1191-1192.
219. Ring contraction in the cyclotrisilazane system - synthesis and molecular structures of twofold silyl-bridged cyclodisilazanes. Clegg, W., Hesse, M., Klingebiel, U., Sheldrick, G.M. & Skoda, L. *Z. Naturforsch.* **B35** (1980) 1359-1365.
220. Molecular and crystal structure of 1,5-dichloro-3,7-bis(trifluoromethyl)-4,8-bis(2',6'-dimethylphenyl)-2,6,9-trioxa-4,8-diaza-1,5-diborabicyclo[3.3.1]nonadiene. Clegg, W., Noltemeyer, M., Sheldrick, G.M., Maringgele, W. & Meller, A. *Z. Naturforsch.* **B35** (1980) 1499-1502.
221. Reactions of the cyclotrisilazane system - synthesis and molecular structure of a 1,3,5,7-tetraaza-2,4,6,8-tetrasilabicyclo[4.2.0]octane. Clegg, W., Klingebiel, U., Sheldrick, G.M., Skoda, L. & Vater, N. *Z. Naturforsch.* **B35** (1980) 1503-1507.
222. Methyl (1S,5S,6S,7R)-6-formyl-7-methyl-2,8-dioxabicyclo[3.3.1]non-3-ene-4-carboxylate. Harms, K., Jones, P.G., Sheldrick, G.M., Tietze, L.F. & Uzar, H.C. *Acta Crystallogr.* **B36** (1980) 3156-3157.
223. (6aRS,9RS,10aRS)-4-Bromo-1-methoxy-6,6,9-trimethyl-6a,7,8,9,10,10a-hexahydro-6H-dibenzo[b,d]pyran. Harms, K., Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr.* **B36** (1980) 3157-3159.
224. (2S,6aR,9R,10aR)-6,6,9-trimethyl-1-oxo-2-phenylseleno-1,2,3,4,6a,7,8,9,10,10a-decahydro-6H-dibenzo[b,d]pyran. Clegg, W., Harms, K., Sheldrick, G.M., Von Kiedrowski, G. & Tietze, L.F. *Acta Crystallogr.* **B36** (1980) 3159-3162.
225. Dodeca(phenylsilasesquioxane). Clegg, W., Sheldrick, G.M. & Vater, N. *Acta Crystallogr.* **B36** (1980) 3162-3164.
226. [(1RS,2RS,3SR)-3-hydroxy-2-methylcyclopentyl]trimethylammonium chloride. Harms, K., Sheldrick, G.M., Fischer, R. & Tietze, L.F. *Acta Crystallogr.* **B36** (1980) 3206-3208.
227. μ_3 -Sulfidotris(triphenylphosphinegold(I))hexafluorophosphate. Jones, P.G., Sheldrick, G.M. & Hädicke, E. *Acta Crystallogr.* **B36** (1980) 2777-2779.
228. Studies on the molecular structure of carboxamide compounds of hexabromotelluric acid (H_2TeBr_6). Behmel, P., Jones, P.G., Sheldrick, G.M. & Ziegler, M. *J. Mol. Struct.* **69** (1980) 41-51.
229. Synthesis of cyclic hydroxylamines: crystal structure of $[(Me_3C)_2SiONH]_2$. Bentmann, D., Clegg, W., Klingebiel, U. & Sheldrick, G.M. *Inorg. Chim. Acta* **45** (1980) L229-L230.
230. Hexakis(thionitrosyl fluoride)cobalt(II)hexafluoroarsenate. Buss, B., Jones, P.G., Mews, R., Noltemeyer, M. & Sheldrick, G.M. *Acta Crystallogr.* **B36** (1980) 141-142.

231. μ -Chlorobis(triphenylphosphine)digold(I) perchlorate dichloromethane solvate. Jones, P.G., Sheldrick, G.M., Uson, R. & Laguna, A. *Acta Crystallogr. B* **36** (1980) 1486-1488.
232. 8-Hydroxy-8-methoxy-19-methoxycarbonyl-(13 \rightarrow 17)-pentanorlabd-9(11)-eno-8,12-lactone. Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B* **37** (1981) 984-985.
233. Difluorosilanediy-1,1'-bis(2,2,4,4,6,6-hexamethylcyclotrisilazane). Clegg, W., Noltemeyer, M., Sheldrick, G.M. & Vater, N. *Acta Crystallogr. B* **37** (1981) 986-987.
234. Bis[di-tert-butyl(tert-butylamino)silyl]acetylene. Clegg, W., Klingebiel, U., Neemann, J., Sheldrick, G.M. & Vater, N. *Acta Crystallogr. B* **37** (1981) 987-989.
235. Structure and chemical bonding in dimethylacetamide compounds of hexafluorophosphoric acid, hydrogen hexafluoroarsenate and hydrogen hexafluoroantimonate. Behmel, P., Clegg, W., Sheldrick, G.M., Weber, G. & Ziegler, M. *J. Mol. Struct.* **74** (1981) 19-28.
236. Structure of TANDEM and its implication for bifunctional intercalation into DNA. Viswamitra, M.A., Kennard, O., Cruse, W.B.T., Egert, E., Sheldrick, G.M., Jones, P.G., Waring, M.J., Wakelin, L.P.G. & Olsen, R.K. *Nature (London)* **289** (1981) 817-819.
237. Synthesis and crystal structure of a dimeric 1,2-diaza-3-sila-3,5-cyclopentadiene. Clegg, W., Klingebiel, U., Sheldrick, G.M. & Werner, P. *Angew. Chem.* **93** (1981) 391; *Angew. Chem. Int. Ed. Engl.* **20** (1981) 384-385.
238. Ortho-palladated dibenzyl sulfides and sulfoxides from palladium carboxylates. Ruger, R., Rittner, W., Jones, P.G., Isenberg, W. & Sheldrick, G.M. *Angew. Chem.* **93** (1981) 389-390; *Angew. Chem. Int. Ed. Engl.* **20** (1981) 382-383.
239. A 2,3,9,10-tetraaza-1,6,8,12-tetrasila-dispiro[4.1.4.1.]dodeca-3,10-diene via dimerization of a heterocycle with exocyclic silicon-carbon double bond. Clegg, W., Klingebiel, U., Pohlmann, S., Sheldrick, G.M. & Werner, P. *Angew. Chem.* **93** (1981) 390; *Angew. Chem. Int. Ed. Engl.* **20** (1981) 383-384.
240. Spectroscopic studies of trans-bis(hexafluoroarsenato)tetrakis(thiazyl trifluoride)metal(II) complexes (M = Mn, Fe, Co, Ni, or Cu), crystal structure of the manganese(II) complex: an example of exceptionally short N-S bonds and of AsF_6^- as a unidentate ligand. Buss, B., Clegg, W., Hartmann, G., Jones, P.G., Mews, R., Noltemeyer, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1981) 61-63.
241. $[\text{Mo}_2\text{S}_{10}]^{2-}$, a complex with terminal sulfido, bridging sulfido, persulfido, and tetrasulfido groups. Clegg, W., Christou, G., Garner, C.D. & Sheldrick, G.M. *Inorg. Chem.* **20** (1981) 1562-1566.
242. Properties and structure of μ -tetrathiosquarato-bis[(methylphenylphosphine)gold(I)]. Jones, P.G., Sheldrick, G.M., Fugner, A., Gotzfried, F. & Beck, W. *Chem. Ber.* **114** (1981) 1413-1417.
243. t-4-Benzoyloxymethyl-c-4-hydroxy-t-2,t-5-dimethoxy-c-5-methyl-r-3-tetrahydrofuryl acetate. Rivera, A.V. & Sheldrick, G.M. *Acta Crystallogr. B* **37** (1981) 1118-1119.

244. X-ray crystal structure of silver oxide Ag_6O_2 . Beesk, W., Jones, P.G., Rumpel, H., Schwarzmann, E. & Sheldrick, G.M. *Chem. Commun.* (1981) 664-665.
245. Preparation and structure of digold(III) bis(selenite) diselenite, $\text{Au}_2(\text{SeO}_3)_2(\text{Se}_2\text{O}_5)$. Jones, P.G., Schwarzmann, E., Sheldrick, G.M. & Timpe, H. *Z. Naturforsch.* **B36** (1981) 1050-1051.
246. The crystal structure of N,N,N',N'-tetrakis[2-(8-quinolyloxy)ethyl]ethylenediaminerubidium iodide. Weber, G., Riecke, J., Saenger, W. & Sheldrick, G.M. *Inorg. Chim. Acta* **54** (1981) L185-L186.
247. Dibenzo[def,pqr]tetraphenylene (bi-4,5-phenanthrylene). Irmgartinger, H., Reibel, W.R.K. & Sheldrick, G.M. *Acta Crystallogr.* **B37** (1981) 1768-1771.
248. Synthesis and structure of a nonpolymeric molecule with eleven alternating sulfur and nitrogen atoms. Witt, M., Roesky, H.W., Noltemeyer, M., Clegg, W., Schmidt, M. & Sheldrick, G.M. *Angew. Chem.* **93** (1981) 1017-1018; *Angew. Chem. Int. Ed. Engl.* **20** (1981) 974-975.
249. Synthesis and reactivity of bimetallic gold-silver complexes. X-ray structure of a chain polymer containing the moiety $\dots(\text{F}_5\text{C}_6)_2\text{Au}(\mu\text{-AgSC}_4\text{H}_8)_2\text{Au}(\text{C}_6\text{F}_5)_2\dots$. Uson, R., Laguna, A., Laguna, M., Jones, P.G. & Sheldrick, G.M. *Chem. Commun.* (1981) 1097-1098.
250. Structure of the helical N-terminal in alamethicin α -helix or 310-helix?. Butters, T., Hütter, P., Jung, G., Pauls, N., Schmitt, H., Sheldrick, G.M. & Winter, W. *Angew. Chem.* **93** (1981) 904-905; *Angew. Chem. Int. Ed. Engl.* **20** (1981) 889-890.
251. A 2:1 complex of 2,4-dinitroaniline and 1,4,7,10,13,16-hexaoxacyclooctadecane (18-crown-6). Weber, G. & Sheldrick, G.M. *Acta Crystallogr.* **B37** (1981) 2108-2111.
252. Synthesis and molecular structures of 1,3-diaza-2,4-disilacyclobutanes. Clegg, W., Klingebiel, U., Sheldrick, G.M. & Vater, N. *Z. Anorg. Allg. Chem.* **482** (1981) 88-94.
253. Coordination of dimethyl(thionitroso)amine to pentacarbonylchromium via the sulfur atom. Roesky, H.W., Emmert, R., Clegg, W., Isenberg, W. & Sheldrick, G.M. *Angew. Chem.* **93** (1981) 623-624; *Angew. Chem. Int. Ed. Engl.* **20** (1981) 591-592.
254. $(\text{Ph}_4\text{P})_2[\text{CuCN}(\text{MoS}_4)]$ and $(\text{Me}_4\text{N})_2(\text{CuCN})_2\text{MoS}_4$: thiomolybdate ligands on copper atoms of a copper cyanide (CuCN) molecule and a zigzag CuCN chain. Mueller, A., Dartmann, M., Römer, C., Clegg, W. & Sheldrick, G.M. *Angew. Chem.* **93** (1981) 1118-1119; *Angew. Chem. Int. Ed. Engl.* **20** (1981) 1060-1061.
255. Novel compounds with gold-transition-metal bonds, crystal and molecular structure of bis(triphenylphosphine)iminium bis(tetracarbonylcobaltio)aurate(I). Uson, R., Laguna, A., Laguna, M., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1981) 366-370.
256. Preparation of three- and four-coordinate gold(I) complexes; crystal structure of bis[o-phenylenebis(dimethylarsine)] gold(I) bis(pentafluorophenyl)aurate(I). Uson, R., Laguna, A., Vicente, J., Garcia, J., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1981) 655-657.

257. Crystal structures of thionitrosyl hexafluoroantimonate(V) and thionitrosyl undecafluoro-diantimonate(V) at 293 K and of thionitrosyl undecafluorodiantimonate(V) at 121.5 K: the effect of thermal motion on the apparent NS bond length. Clegg, W., Glemser, O., Harms, K., Hartmann, G., Mews, R., Noltemeyer, M. & Sheldrick, G.M. *Acta Crystallogr. B* **37** (1981) 548-552.
258. Structures of the neuroleptic drugs α - and β -clopenthixol. Jones, P.G., Sheldrick, G.M. & Horn, A.S. *Acta Crystallogr. B* **37** (1981) 906-910.
259. Crystal structure of d(A-T)₂ and sequence specific DNA-protein recognition. Viswamitra, M. A., Kennard, O., Shakked, Z., Jones, P.G., Sheldrick, G.M., Salisbury, S. & Falvello, L. *Biomol. Struct., Conform., Funct., Evol.* (1981) 465-470. Edited by: Srinivasan, Ramachandran, Subramanian, E. & Yathindra, N. Pergamon: Oxford.
260. Preparation and crystal structure of arsenic(III) phosphorus(V) oxide, AsPO₄. Bodenstein, D., Brehm, A., Jones, P.G., Schwarzmann, E. & Sheldrick, G.M. *Z. Naturforsch. B* **37** (1982) 136-137.
261. Preparation and crystal structure of the arsenic(III) arsenic(V) oxide hydroxide (As₃O₅(OH)). Bodenstein, D., Brehm, A., Jones, P.G., Schwarzmann, E. & Sheldrick, G.M. *Z. Naturforsch. B* **37** (1982) 138-140.
262. Crystal structure of the sulfide-bridged gold(I) compound [Au{S(AuPPh₃)₂}₂]⁺[(CH₃)₃SnCl₂]⁻. Jones, P.G., Lensch, C. & Sheldrick, G.M. *Z. Naturforsch. B* **37** (1982) 141-143.
263. Cyclization reactions of lithiated fluorosilanols and aminofluorosiloxanes - cross-dimerization of a silicenium ylide. Clegg, W., Klingebiel, U. & Sheldrick, G.M. *Z. Naturforsch. B* **37** (1982) 423-431.
264. Preparation and crystal structure of the arsenic(III) phosphorus(V) oxide hydroxide As₂PO₅(OH). Bodenstein, D., Brehm, A., Jones, P.G., Schwarzmann, E. & Sheldrick, G.M. *Z. Naturforsch. B* **37** (1982) 531-533.
265. Preparation and crystal structure of gold(III) selenite chloride, Au(SeO₃)Cl. Jones, P.G., Kraushaar, M., Schwarzmann, E. & Sheldrick, G.M. *Z. Naturforsch. B* **37** (1982) 941-943.
266. Crystal structures of the selenide- and sulfide-bridged gold(I) complexes [Se(AuPPh₃)₃]⁺PF₆⁻ and [S(AuPPh₃)₂]-CH₂Cl₂. Lensch, C., Jones, P.G. & Sheldrick, G.M. *Z. Naturforsch. B* **37** (1982) 944-949.
267. Synthesis and structure of sulfur anions with coordination number 3. Roesky, H.W., Schmieder, W., Isenberg, W., Böhrer, D. & Sheldrick, G.M. *Angew. Chem.* **94** (1982) 143-144; *Angew. Chem. Int. Ed. Engl.* **21** (1982) 153.
268. A spirocyclic diphosphirane. Clegg, W., Haase, M., Hesse, M., Klingebiel, U. & Sheldrick, G.M. *Angew. Chem.* **94** (1982) 461-462; *Angew. Chem. Int. Ed. Engl.* **21** (1982) 445.
269. Formation of metal-metal bonds and conversion of the metal aggregate {Mo₄(S₂)₄(S'₂)₂} by atom transfer and redox reactions at nonequivalent ligands; [Mo₄S₄(NO)₄(CN)₈]⁸⁻, an anion with a central

cubane-like unit. Müller, A., Eltzner, W., Clegg, W. & Sheldrick, G.M. *Angew. Chem.* **94** (1982) 555-556; *Angew. Chem. Int. Ed. Engl.* **21** (1982) 536-537.

270. $S_6N_5O_4$ - a compound with cyclic radical cation $S_3N_2^+$ and cyclic anion $S_3N_3O_4^-$ in separate stacks. Roesky, H.W., Witt, M., Schimkowiak, J., Schmidt, M., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **94** (1982) 541; *Angew. Chem. Int. Ed. Engl.* **21** (1982) 536.

271. Sulfur anions with the coordination number 3: synthesis, structure, and range of existence. Roesky, H.W., Schmieder, W., Isenberg, W., Sheldrick, W.S. & Sheldrick, G.M. *Chem. Ber.* **115** (1982) 2714-2727.

272. Tris(pentafluorophenyl)gold(III) complexes. Uson, R., Laguna, A., Laguna, M., Fernandez, E., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1982) 1971-1976.

273. Synthesis and crystal structure of $(S_3N_3O_4)_2S$, a compound with two six-membered rings bridged by a sulfur atom. Roesky, H.W., Clegg, W., Schimkowiak, J., Schmidt, M., Witt, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1982) 2117-2118.

274. Preparation and crystal structure of the four-coordinate gold(I) complex chlorotris-(triphenylphosphine)gold(I). Jones, P.G., Sheldrick, G.M., Muir, J.A., Muir, M.M. & Pulgar, L.B. *J. Chem. Soc., Dalton Trans.* (1982) 2123-2125.

275. The crystal structure of 2-(4'-chlorophenoxy)tetrahydropyran. Jones, P.G., Sheldrick, G.M., Kirby, A.J., Glenn, R., Ramaswamy, P. & Halstenberg, M. *Z. Kristallogr.* **159** (1982) 265-270.

276. X-ray crystal structure of bis(1-oxo-1,2,4,3,5-trithiadiazole)silver hexafluoroarsenate(V): an unusual mode of coordination. Roesky, H.W., Thomas, M., Schimkowiak, J., Schmidt, M., Noltemeyer, M. & Sheldrick, G.M. *Chem. Commun.* (1982) 790-791.

277. Cyclooctasulfur as a ligand: preparation and x-ray crystal structure of $[Ag(S_8)_2]AsF_6$. Roesky, H.W., Thomas, M., Schimkowiak, J., Jones, P.G., Pinkert, W. & Sheldrick, G.M. *Chem. Commun.* (1982) 895-896.

278. Diels-Alder reactions of malondialdehyde derivatives with reversed electron demand, an easy approach to structurally unique carbohydrates and compounds of the thromboxane type. Tietze, L.F., Glüsenkamp, K.H., Harms, K., Remberg, G. & Sheldrick, G.M. *Tetrahedron Lett.* **23** (1982) 1147-1150.

279. Structure of the deoxytetranucleotide d-pApTpApT and a sequence-dependent model for poly(dA-dT). Viswamitra, M.A., Shakked, Z., Jones, P.G., Sheldrick, G.M., Salisbury, S.A. & Kennard, O. *Biopolymers* **21** (1982) 513-533.

280. The crystal structure of 1-(2',4'-dinitrophenoxy)bicyclo[3.3.1]-9-oxanonane. Jones, P.G., Sheldrick, G.M., Kirby, A.J., Evans, C.M., Glenn, R. & Stegemann, J. *Z. Kristallogr.* **160** (1982) 45-51.

281. 11-exo-Ammonio-8-chlorobenzo[b]bicyclo[3.3.1]nona-2,6a(10a)-diene chloride. Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr. B* **38** (1982) 3105-3107.

282. Structure of bis(tetraphenylarsonium) hexamolybdate(VI). Clegg, W., Sheldrick, G.M., Garner, C.D. & Walton, I.B. *Acta Crystallogr.* **B38** (1982) 2906-2909.
283. Tetraphenylarsonium bis(fluorosulfonyl)amide at 290 and 112 K. Isenberg, W., Noltemeyer, M. & Sheldrick, G.M. *Acta Crystallogr.* **B38** (1982) 2887-2889.
284. Preparation and crystal structure of copper(I) tetrachloroaluminate, CuAlCl_4 . Hildebrandt, K., Jones, P.G., Schwarzmann, E. & Sheldrick, G.M. *Z. Naturforsch.* **B37** (1982) 1129-1131.
285. MeNC insertion into $\text{Pd-C}_6\text{F}_5$ bonds: bis(μ -imidoyl-C,N)palladium complexes, a novel type of imidoyl coordination in palladium chemistry. Single-crystal x-ray structure of trans-bis(μ -pentafluoro-N-methylbenzimidoyl-C,N)bis[chloro(tetrahydrothiophene-S)palladium(II)]. Uson, R., Fornies, J., Espinet, P., Lalinde, E., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1982) 2389-2395.
286. Crystal structure of phenyl- β -D-glucopyranoside dihydrate. Jones, P.G., Sheldrick, G.M., Clegg, W., Kirby, A.J. & Glenn, R. *Z. Kristallogr.* **160** (1982) 269-274.
287. Crystal structure of phenyl- α -D-glucopyranoside. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Glenn, R. *Z. Kristallogr.* **160** (1982) 259-267.
288. Preparation and crystal structure of cyclic dithiooxamides. Roesky, H.W., Hofmann, H., Clegg, W., Noltemeyer, M. & Sheldrick, G.M. *Inorg. Chem.* **21** (1982) 3798-3800.
289. Synthesis and structure of $[\text{CpFe}(\text{CO})_2\text{SO}_2]^+\text{AsF}_6^-$. Hartmann, G., Froböse, R., Mews, R. & Sheldrick, G.M. *Z. Naturforsch.* **B37** (1982) 1234-1240.
290. Synthesis and structure of $[\text{Zn}(\text{S}_2\text{N}_2\text{CO})_6][\text{AsF}_6]_2$ - sulfur-nitrogen rings as ligands in coordination compounds. Roesky, H.W., Thomas, M., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **94** (1982) 780-781; *Angew. Chem. Int. Ed. Engl.* **21** (1982) 858.
291. Crystal and molecular structure of 5-(p-fluorophenyl)-2,4,6-trimethylcyclo-1,3-dioxo-2,4,6-triborane. Meller, A., Habben, C., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B37** (1982) 1504-1506.
292. Reaction of pyrrolidiniumbis(diethylphosphoryl)phosphinidine with chromium carbonyl complexes. Roesky, H.W., Djarrah, H., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B37** (1982) 1580-1583.
293. The crystal structure of 2,3,4,6-tetra-O-acetyl-3,4-dinitrophenyl- β -D-glucopyranoside. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Glenn, R. *Z. Kristallogr.* **161** (1982) 137-144.
294. The crystal structure of 4-nitrophenyl- α -D-glucopyranoside. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Cruse, W.B.T. *Z. Kristallogr.* **161** (1982) 69-77.

295. Crystal structures of potassium cadmium azide hydrate ($\text{KCd}(\text{N}_3)_3 \cdot \text{H}_2\text{O}$) and potassium cadmium azide ($\text{K}_2\text{Cd}(\text{N}_3)_4$). Clegg, W., Krischner, H., Saracoglu, A.I. & Sheldrick, G.M. *Z. Kristallogr.* **161** (1982) 307-313.
296. The crystal structure of 1,2,3,4,6-penta-O-acetyl- β -D-glucopyranose. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Glenn, R. *Z. Kristallogr.* **161** (1982) 245-251.
297. The crystal structure of 1,2,3,4,6-penta-O-acetyl- α -D-glucopyranose. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Glenn, R. *Z. Kristallogr.* **161** (1982) 237-243.
298. The crystal structure of 2-(2',5'-dinitrophenoxy)tetrahydropyran. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Glenn, R. *Z. Kristallogr.* **161** (1982) 253-258.
299. Crystallographic algorithms for mini- and maxi-computers. Sheldrick, G.M. *Comput. Crystallogr.* (1982) 506-514. Edited by: Sayre, D. Oxford Univ. Press: Oxford.
300. 2-Ethyl-5-(3-inolyl)oxazole from *Streptomyces cinnamomeus* discovered by chemical screening. Characterization and structure elucidation by x-ray analysis. Noltemeyer, M., Sheldrick, G.M., Hoppe, H.U. & Zeeck, A. *J. Antibiot.* **35** (1982) 549-555.
301. 3,15-Dimethyl-18-(1-propynyl)-16-oxapentacyclo[10.4.2.0^{2,11}.0^{3,8}.0^{15,18}]octadeca-4,7-dien-6-one. Paulus, E.F. & Sheldrick, G.M. *Acta Crystallogr. B* **38** (1982) 284-286.
302. Crystal and molecular structure of the quinoxaline antibiotic analog TANDEM (des-N-tetramethyltrioistin A). Hossain, M.B., Van der Helm, D., Olsen, R.K., Jones, P.G., Sheldrick, G.M., Egert, E., Kennard, O., Waring, M.J. & Viswamitra, M.A. *J. Am. Chem. Soc.* **104** (1982) 3401-3408.
303. Attack by a lithiated aminofluorosilane on the carbonyl bond of chromium hexacarbonyl, formation of isonitrile complexes. Clegg, W., Klingebiel, U. & Sheldrick, G.M. *Z. Naturforsch. B* **38** (1983) 260-261.
304. Adduct of tin tetrachloride and bis(trimethylsilyl)sulfur diimide. Roesky, H.W., Schmidt, H.G., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **116** (1983) 1411-1414.
305. Preparation of trimeric and tetrameric bis(trifluoromethyl)arsazene: x-ray study of cyclotetra[bis(trifluoromethyl)- λ^5 -arsazene]. Bohra, R., Roesky, H.W., Lucas, J., Noltemeyer, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1983) 1011-1014.
306. Preparation of 1,1-diphenylthionitrosamine and x-ray crystal structures of two thionitrosamine complexes. Roesky, H.W., Emmert, R., Isenberg, W., Schmidt, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1983) 183-185.
307. Cyclization of (fluorosilyl)phosphines to 1,3-diphospha-2,4-disilacyclobutanes - crystal structure studies. Clegg, W., Haase, M., Klingebiel, U. & Sheldrick, G.M. *Chem. Ber.* **116** (1983) 146-151.
308. Existence of a silaolefin: synthesis and crystal structures of Wittig and Diels-Alder products in reactions of lithiated (fluorosilyl)diazasilacyclopentenes with benzaldehyde and methacrolein. Clegg,

W., Graalman, O., Haase, M., Klingebiel, U., Sheldrick, G.M., Werner, P., Henkel, G. & Krebs, B. *Chem. Ber.* **116** (1983) 282-289.

309. Synthesis of cyclic silylhydrazines - crystal structure of a five-membered cross dimer. Clegg, W., Haase, M., Hluchy, H., Klingebiel, U. & Sheldrick, G.M. *Chem. Ber.* **116** (1983) 290-298.

310. Structure of an oxonium antimony(III) sulfate, $(\text{H}_3\text{O})_2\text{Sb}_2(\text{SO}_4)_4$. Mercier, R., Douglade, J., Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr.* **C39** (1983) 145-148.

311. The structure of pentagydine, a new diterpenoid alkaloid. Gonzalez, A.G., De la Fuente, G., Diaz, R., Jones, P. G. & Sheldrick, G.M. *Tetrahedron Lett.* **24** (1983) 959-960.

312. 2,5,8-Trithia[9](2,6)-pyridinophane, $\text{C}_{11}\text{H}_{15}\text{NS}_3$. Weber, G., Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr.*, Sect. **C39** (1983) 389-391.

313. Preparation and x-ray crystal structure of tris[μ -(2,4,6,8-tetramethyl-2,4,6,8-tetraaza-1,5-diphosphabicyclo[3.3.0]octane-3,7-dione-P,P')]bis(tricarbonylmolybdenum). Roesky, H.W., Amirzadeh-Asl, D., Clegg, W., Noltemeyer, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1983) 855-856.

314. The structure of γ -naphthocyclinone. Egert, E., Noltemeyer, M., Sheldrick, G.M., Saenger, W., Brand, H. & Zeeck, A. *Liebigs Ann. Chem.* (1983) 503-509.

315. Preparation and crystal structure of digold(III)bis(selenite) oxide, $\text{Au}_2(\text{SeO}_3)_2\text{O}$. Jones, P.G., Sheldrick, G.M., Schwarzmann, E. & Vielmäder, A. *Z. Naturforsch.* **B38** (1983) 10-11.

316. 4-Chloro-1,2,3,5-dithiadiazolium salts. Höfs, H.U., Mews, R., Clegg, W., Noltemeyer, M., Schmidt, M. & Sheldrick, G.M. *Chem. Ber.* **116** (1983) 416-423.

317. N,N-dihaloethanimidoyl difluorides. Waterfeld, A., Isenberg, W., Mews, R., Clegg, W. & Sheldrick, G.M. *Chem. Ber.* **116** (1983) 724-731.

318. Structures of 3 β -hydroxy-5 β -bufa-14,20,22-trienolide, $\text{C}_{24}\text{H}_{32}\text{O}_3$, and 3 β -acetoxy-15 α -(o-nitrobenzoyloxy)-7-oxo-5 β ,14 β -bufa-8,20,22-trienolide, $\text{C}_{33}\text{H}_{35}\text{NO}_9$. Nassimbeni, L.R., Niven, M.L., Sheldrick, G.M., Pettit, G.R., Inoue, M. & Kamano, Y. *Acta Crystallogr.* **C39** (1983) 801-806.

319. Reactions of fluorinated nitriles with sulfur(II)chlorides, crystal structure of 2,4,6-tris(difluorosulfoximido)-1,3,5-triazene at 170 K. Höfs, H.U., Mews, R., Noltemeyer, M., Sheldrick, G.M., Schmidt, M., Henkel, G. & Krebs, B. *Z. Naturforsch.* **B38** (1983) 454-459.

320. Dithiocarbonate and trithiocarbonate complexes of palladium(II), crystal structure of dithiocarbonatobis(triphenylphosphine)palladium-dichloromethane solvate $(\text{Pd}(\text{Ph}_3\text{P})_2(\text{CS}_2\text{O})\text{CH}_2\text{Cl}_2)$. Jones, P.G., Sheldrick, G.M., Uson, R., Fornies, J. & Uson, M.A. *Z. Naturforsch.* **B38** (1983) 449-453.

321. Reactions of tetrasulfur tetranitride with titanium and vanadium tetrachlorides: crystal structure of $VCl_2(S_2N_3)$. Roesky, H.W., Anhaus, J., Schmidt, H.G., Sheldrick, G.M. & Noltemeyer, M. *J. Chem. Soc., Dalton Trans.* (1983) 1207-1209.
322. Trimeric thioformaldehyde as a ligand: preparation and crystal structure of $[Ag_2\{(CH_2S)_3\}_5][AsF_6]_2 \cdot SO_2$. Roesky, H.W., Hofmann, H., Jones, P.G., Pinkert, W. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1983) 1215-1216.
323. Complexes containing the diradical 1,2,3,4-tetraphenylbuta-1,3-diene-1,4-diyl: crystal structure of chloro(1,10-phenanthroline)(1,2,3,4-tetraphenylbuta-1,3-diene-1,4-diyl)gold. Uson, R., Vicente, J., Chicote, M.T., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1983) 1131-1136.
324. Preparation and crystal and molecular structure of a polymeric bis(sulfinylnitrido)sulfur complex of silver(I): $[Ag_4\{S(NSO)_2\}_9][AsF_6]_4 \cdot SO_2$. Roesky, H.W., Thomas, M., Jones, P.G., Pinkert, W. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1983) 1211-1213.
325. Redetermination of the structure of tetrasulfurtetranitrogen dioxide, $S_4N_4O_2$. Jones, P.G., Pinkert, W. & Sheldrick, G.M. *Acta Crystallogr. C* **39** (1983) 827-829.
326. Disilver(I) decachlorodioxotetraaluminate(III), $Ag_2[Al_4Cl_{10}O_2]$. Jentsch, D., Jones, P.G., Schwarzmann, E. & Sheldrick, G.M. *Acta Crystallogr. C* **39** (1983) 1173-1174.
327. Tetrakis(tetrasulfur tetranitrogen dioxide)silver hexafluoroarsenate(V). Roesky, H.W., Thomas, M., Schmidt, H.G., Clegg, W., Noltemeyer, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1983) 405-407.
328. Reaction of triruthenium dodecacarbonyl with nitrobenzene and structure of μ_3 -phenylnitrenetriruthenium decacarbonyl, $[Ru_3(CO)_{10}(\mu_3-NPh)]$. Bhaduri, S., Gopalkrishnan, K.S., Sheldrick, G.M., Clegg, W. & Stalke, D. *J. Chem. Soc., Dalton Trans.* (1983) 2339-2341.
329. Diverse behavior of imido bridges towards neutral nucleophiles: bridge cleavage, isonitrile elimination, and formation of zwitterionic palladium complexes. X-ray structure of $[(tmen)Pd\{\mu-C(C_6F_5)NMe\}_2PdCl_2]$. Uson, R., Fornies, J., Espinet, P., Lalinde, E., Jones, P.G. & Sheldrick, G.M. *J. Organomet. Chem.* **253** (1983) C47-C49.
330. Stabilization of silicene ylides by adduct formation with aluminum trihalides: the crystal structure of $[(Me_3C)_2SiNCMe_3]_2AlClF_2$. Clegg, W., Klingebiel, U., Neemann, J. & Sheldrick, G.M. *J. Organomet. Chem.* **249** (1983) 47-54.
331. The syntheses and structures of silver complexes with trimeric thioformaldehyde and trimeric selenoformaldehyde. Hofmann, H., Jones, P.G., Noltemeyer, M., Peymann, E., Pinkert, W., Roesky, H.W. & Sheldrick, G.M. *J. Organomet. Chem.* **249** (1983) 97-102.
332. Cationic transition metal complexes of thiazylbis(trifluoromethyl) nitroxide. Hartmann, G., Mews, R. & Sheldrick, G.M. *J. Organomet. Chem.* **252** (1983) 195-200.

333. Synthesis and hydrolysis of a fluorosilyl-tert-butylaminodichloroalane. Crystal structures of the cyclic compounds $[(\text{Me}_3\text{SiNMe})_2\text{SiNCMe}_3]_2$ and $(\text{Me}_3\text{CNHAICl}_2)_2$. Clegg, W., Haase, M., Klingebiel, U., Neemann, J. & Sheldrick, G.M. *J. Organomet. Chem.* **251** (1983) 281-287.
334. The crystal structures of 1-(3',5'-dinitrobenzoyloxy)-9-oxabicyclo[3.3.1]nonane and 5-(3',5'-dinitrobenzoyloxy)cyclooctanone. Jones, P.G., Sheldrick, G.M., Kirby, A.J., Glenn, R. & Halstenberg, M. *Z. Kristallogr.* **163** (1983) 75-84.
335. The crystal structure of methoxymethoxy-2,4-dinitrobenzene. Jones, P.G., Sheldrick, G.M., Glenn, R. & Kirby, A.J. *Z. Kristallogr.* **163** (1983) 85-91.
336. The crystal structure of 2-(3',5'-dinitrobenzoyloxy)tetrahydropyran cyclohexane solvate. Jones, P.G., Sheldrick, G.M., Glenn, R., Kirby, A.J. & Ramaswamy, P. *Z. Kristallogr.* **163** (1983) 93-100.
337. The crystal structure of 2-(N-phthalimidomethoxy)tetrahydropyran. Jones, P.G., Sheldrick, G.M., Briggs, A.J. & Kirby, A.J. *Z. Kristallogr.* **163** (1983) 101-106.
338. The crystal structure of 9-oxabicyclo[3.3.1]non-1-yl diphenyl phosphate. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Briggs, A.J. *Z. Kristallogr.* **163** (1983) 107-116.
339. The crystal structure of 9-oxabicyclo[3.3.1]non-1-yl methanesulfonate. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Briggs, A.J. *Z. Kristallogr.* **163** (1983) 117-122.
340. Crystal and molecular structure of bis(tetrasulfur tetranitride)-tetrachlorotin. Roesky, H.W., Noltemeyer, M., Schmidt, H.G. & Sheldrick, G.M. *Z. Kristallogr.* **163** (1983) 123-127.
341. The crystal structure of 1,2-dibenzylidenehydrazinium hexafluoroarsenate. Noltemeyer, M., Schmidt, M. & Sheldrick, G.M. *Z. Kristallogr.* **163** (1983) 129-134.
342. Preparation and crystal structure of monoclinic arsenic(III) antimony(III) oxide, AsSbO_3 . Bodenstern, D., Brehm, A., Jones, P.G., Schwarzmann, E. & Sheldrick, G.M. *Z. Naturforsch.* **B38** (1983) 901-904.
343. Synthesis and characterization of an 18-crown-5-ligand and its sodium isothiocyanate complex. Von Itter, F.A., Vögtle, F., Weber, G. & Sheldrick, G.M. *Z. Naturforsch.* **B38** (1983) 262-264.
344. Preparation and crystal structure of antimony(V) oxide hydroxide HSb_3O_8 . Jäger, G., Jones, P.G., Sheldrick, G.M. & Schwarzmann, E. *Z. Naturforsch.* **B38** (1983) 698-701.
345. Synthesis and structure of chlorotrithiadiazyl hexachloroantimonate $\text{N}_2\text{S}_3\text{Cl}^+\text{SbCl}_6^-$. Isenberg, W., Homsy, N.K., Anhaus, J., Roesky, H.W. & Sheldrick, G.M. *Z. Naturforsch.* **B38** (1983) 808-810.
346. Silver catalyzed macrocyclic ether formation: crystal structure of $[(\text{CH}_2\text{O})_6\text{Ag}_2][\text{Ag}][\text{AsF}_6]_3$. Roesky, H.W., Peymann, E., Schimkowiak, J., Noltemeyer, M., Pinkert, W. & Sheldrick, G.M. *Chem. Commun.* (1983) 981-982.

347. Single-electron oxidation of diazasilacyclopentenes. Graalman, O., Hesse, M., Klingebiel, U., Clegg, W., Haase, M. & Sheldrick, G.M. *Angew. Chem.* **95** (1983) 630-631; *Angew. Chem. Int. Ed. Engl.* **22** (1983) 621-622.
348. New cytotoxic principles from *datisca glomerata*. Sasamori, H., Reddy, K.S., Kirkup, M.P., Shabanowitz, J., Lynn, D.G., Hecht, S.M., Woode, K.A., Bryan, R.F., Campbell, J., Lynn, W.S., Egert, E. & Sheldrick, G.M. *J. Chem. Soc., Perkin Trans.* **1** (1983) 1333-1347.
349. Mono-, bi-, and trinuclear bis(diphenylphosphino)methane gold complexes. Crystal and molecular structures of [bis(diphenylphosphino)methane]bis(pentafluorophenyl)gold(III)perchlorate and 1,2;2,3-di- μ -[bis(diphenylphosphino)methane]-1,3-dichlorotrigold(I) chlorotris(pentafluorophenyl)aurate(III). Uson, R., Laguna, A., Laguna, M., Fernandez, E., Villacampa, M.D., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1983) 1679-1685.
350. Synthesis and structure of a macrocycle with a framework of arsenic, carbon, oxygen, and nitrogen atoms. Roesky, H.W., Djarrah, H., Lucas, J., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **95** (1983) 1029-1030; *Angew. Chem. Int. Ed. Engl.* **22** (1983) 1006.
351. $[\text{Ni}(\text{S}_4)_2]^{2-}$, a homoleptic tetrasulfidonickel(II) complex. Müller, A., Krickemeyer, E., Bögge, H., Clegg, W. & Sheldrick, G.M. *Angew. Chem.* **95** (1983) 1030; *Angew. Chem. Int. Ed. Engl.* **22** (1983) 1006-1007.
352. Pentacarbonylrhenium complexes with thiazylamide ligands. Hartmann, G., Mews, R. & Sheldrick, G.M. *Angew. Chem.* **95** (1983) 753; *Angew. Chem. Int. Ed. Engl.* **22** (1983) 723-724.
353. Synthesis and structure of (Z)-3-amino-4-oxo-2-azetidinesulfonic acid. Hoppe, D., Sheldrick, G.M., Egert, E. & Kaars, P. *Angew. Chem.* **95** (1983) 912; *Angew. Chem. Int. Ed. Engl.* **22** (1983) 886-887.
354. Synthesis of imidodifluorosulfates. Hoppenheit, R., Mews, R., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **116** (1983) 874-881.
355. Towards [6.5]coronane - fivefold cyclobutylmethyl-cyclopentyl rearrangement in a pentaspiroheneicosanol. Fitjer, L., Giersig, M., Clegg, W., Schormann, N. & Sheldrick, G.M. *Tetrahedron Lett.* **24** (1983) 5351-5354.
356. Reactions of multiple-bond systems with the 1,2,4-trithia-3,5-diborolane ring - a structural correction. Noltemeyer, M., Sheldrick, G.M., Habben, C. & Meller, A. *Z. Naturforsch.* **B38** (1983) 1182-1191.
357. Synthesis of silicon-phosphorus rings - structure of a cis-2,2,4,4-tetrakis(silylamino)-1,3-diphospha-2,4-disilacyclobutane. Klingebiel, U., Vater, N., Clegg, W., Haase, M. & Sheldrick, G.M. *Z. Naturforsch.* **B38** (1983) 1557-1562.
358. Tetrasulfur pentanitrogen fluoride. Isenberg, W., Mews, R., Sheldrick, G.M., Bartetzko, R. & Gleiter, R. *Z. Naturforsch.* **B38** (1983) 1563-1567.

359. Synthesis and structure of 1,3-dichloro-5-N,N-dimethylamino-1,3-dithia-2,4,6-triazine. Roesky, H.W., Schäfer, P., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B38** (1983) 347-349.
360. Preparation and crystal structure of some MSb_5O_{13} compounds ($M = H_3O, Na, K$). Bodenstein, D., Clegg, W., Jäger, G., Jones, P.G., Rumpel, H., Schwarzmann, E. & Sheldrick, G.M. *Z. Naturforsch.* **B38** (1983) 172-176.
361. Triply bridged binuclear complexes of oxomolybdenum(V) with thiolate ligands. Buchanan, I., Clegg, W., Garner, C.D. & Sheldrick, G.M. *Inorg. Chem.* **22** (1983) 3657-3661.
362. From polyspiranes to polycycles - sixfold 1,2-shifts in functionalized pentaspiro-[2.0.2.0.2.0.2.0.2.1]hexadecanes. Fitjer, L., Wehle, D., Noltemeyer, M., Egert, E. & Sheldrick, G.M. *Chem. Ber.* **117** (1984) 203-221.
363. (Disilylamino)phosphines $(R_f)_2PN(SiMe_3)_2$ - synthons for PN_3S_2 rings. Roesky, H.W., Lucas, J., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **117** (1983) 1583-1590.
364. Synthesis and reactivity of bimetallic gold-silver polyfluorophenyl complexes: crystal and molecular structures of catena-di- μ -(tetrahydrothiophene)argentio-bis[bis(perfluorophenyl)gold] and catena-di- μ -(2-benzene)argentio-bis[bis(perfluorophenyl)gold]. Uson, R., Laguna, A., Laguna, M., Manzano, B.R., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1984) 285-292.
365. Preparation and crystal structure of trichloro(thionitrosyl)bis(triphenylphosphine)osmium(II), $[Os(NS)Cl_3(PPh_3)_2]$. Roesky, H.W., Pandey, K.K., Clegg, W., Noltemeyer, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1984) 719-721.
366. Preparation and crystal structures of two phosphorus-sulfur rings: $(PhP)_3S_3$ and $(PhP)_2S_4$. Lensch, C., Clegg, W. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1984) 723-725.
367. Synthesis of polynuclear complexes containing the tridentate bis(diphenylphosphino)methanide ligand. Crystal structures of the compounds μ -[bis(diphenylphosphino)methanide]tris(pentafluorophenyl)digold(I)/(III) and μ -[bis(diphenylphosphino)methanide]- μ -[bis(diphenylphosphino)methanide]tetrakis(pentafluorophenyl)trigold(I)/(III)/(III) perchlorate. Uson, R., Laguna, A., Laguna, M., Manzano, B.R., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1984) 839-843.
368. Dimerization of a silicene ylide by methanide and silylamine migration. Clegg, W., Klingebiel, U., Sheldrick, G.M. & Stalke, D. *J. Organomet. Chem.* **265** (1984) 17-25.
369. 1,2-Dialkoxyacenaphthylenes and 2,3,11,12-bis(1,2-acenaphtho)[18]crown-6. Merz, A., Dietl, F., Tomahogh, R., Weber, G. & Sheldrick, G. M. *Tetrahedron* **40** (1984) 665-671.
370. Crystal structures and solution conformations of the meso-forms of 2,3,11,12-tetraphenyl-18-crown-6. Weber, G., Sheldrick, G. M., Burgemeister, T., Dietl, F., Mannschreck, A. & Merz, A. *Tetrahedron* **40** (1984) 855-863.

371. Ring cleavage of a benzodithiazolium chloride and the x-ray structure analysis of 3,3',5,5'-tetrakis(tert-butyl)-2,2'-bis(sulfinylamino)-1,1'-diphenyl disulfide. Roesky, H.W., Weber, K.L., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B39** (1984) 163-166.
372. Structure of salbomycin, $C_{54}H_{88}O_{18} \cdot 2H_2O$. Paulus, E.F., Vertesy, L. & Sheldrick, G.M. *Acta Crystallogr.* **C40** (1984) 700-703.
373. Structures of the cis and trans isomers of 2,4,6-tri-tert-butyl-2,4,6-trifluorocyclotrisilazane, $C_{12}H_{30}F_3N_3Si_3$. Clegg, W., Sheldrick, G.M. & Stalke, D. *Acta Crystallogr.* **C40** (1984) 816-818.
374. Structure of the 1:1 adduct of di-tert-butylfluorosilanol and pyridine N-oxide, $C_8H_{19}FOSi \cdot C_5H_5NO$. Clegg, W., Sheldrick, G.M., Klingebiel, U., Bentmann, D., Henkel, G. & Krebs, B. *Acta Crystallogr.* **C40** (1984) 819-820.
375. Structure of 1,3-di-tert-butyl-2,2,4,4-tetraisopropylcyclodisilazane, $C_{20}H_{46}N_2Si_2$. Clegg, W., Haase, M., Sheldrick, G.M. & Vater, N. *Acta Crystallogr.* **C40** (1984) 871-873.
376. Structure of bis- μ_3 -phenylimido-tris(tricarbonylruthenium), $[Ru_3(C_6H_5N)_2(CO)_9]$. Clegg, W., Sheldrick, G.M., Stalke, D., Bhaduri, S. & Gopalkrishnan, K.S. *Acta Crystallogr.* **C40** (1984) 927-929.
377. Bond length and reactivity: structures of five dialkyl aryl phosphates: 2-phenoxy-1,3,2-dioxaphosphorinane 2-oxide, $C_9H_{11}O_4P$, 2-(3-nitrophenoxy)-1,3,2-dioxaphosphorinane 2-oxide, $C_9H_{10}NO_6P$, 2-(2-nitrophenoxy)-1,3,2-dioxaphosphorinane 2-oxide, $C_9H_{10}NO_6P$, 2-(4-chloro-2-nitrophenoxy)-1,3,2-dioxaphosphorinane 2-oxide, $C_9H_9ClNO_6P$, and 2-(2,4-dinitrophenoxy)-1,3,2-dioxaphosphorinane 2-oxide, $C_9H_9N_2O_8P$. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Briggs, A.J. *Acta Crystallogr.* **C40** (1984) 1061-1065.
378. Dimeric N-tert-butyl(chloroarsine)imine, $C_8H_{18}As_2Cl_2N_2$. Bohra, R., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Acta Crystallogr.* **C40** (1984) 1150-1152.
379. Silver-catalyzed formation of crown ethers: synthesis and structure of $[Ag([12]-crown-4)_2][AsF_6]$. Jones, P.G., Gries, T., Grützmacher, H.J., Roesky, H.W., Schimkowiak, J. & Sheldrick, G.M. *Angew. Chem.* **96** (1984) 357-358; *Angew. Chem. Int. Ed. Engl.* **23** (1984) 376.
380. Reaction of ethanediamides with bromodimethylborane. Maringgele, W., Sheldrick, G.M., Meller, A. & Noltemeyer, M. *Chem. Ber.* **117** (1984) 2112-2131.
381. Preparation and crystal structure of nonacarbonyl-di- μ -hydrido- μ_3 -phenylimido-triangulo-triruthenium, $[Ru_3(\mu-H)_2(CO)_9(\mu_3-NPh)]$. Bhaduri, S., Gopalkrishnan, K.S., Clegg, W., Jones, P.G., Sheldrick, G.M. & Stalke, D. *J. Chem. Soc., Dalton Trans.* (1984) 1765-1767.
382. Synthesis and x-ray structure of tetrakis(diphenyl disulfide or diselenide)disilver bis(hexafluoroarsenate) six-membered silver-sulfur and silver-selenium rings. Roesky, H.W., Gries, T., Jones, P.G., Weber, K.L. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1984) 1781-1784.

383. Crystal structure of 2-thiopyrrole-1,2-dicarboximidebis(triphenylphosphine)copper(I) chloride, $[(\text{Ph}_3\text{P})_2\text{Cu}(\text{Cl})\text{C}_6\text{H}_4\text{N}_2\text{OS}]$. Pandey, K.K., Noltemeyer, M., Sheldrick, G.M. & Saheb, R. *Z. Naturforsch.* **B39** (1984) 586-589.
384. Preparation and structure of tetraphenylphosphonium aquotetrachlorothionitrosylosmium(II), $[\text{PPh}_4][(\text{H}_2\text{O})\text{Os}(\text{NS})\text{Cl}_4]$. Pandey, K.K., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B39** (1984) 590-593.
385. Structure of 2,2,4,4,6,6-hexa-tert-butylcyclotrisilazane, $[(\text{C}_4\text{H}_9)_2\text{SiNH}]_3$. Clegg, W., Sheldrick, G.M. & Stalke, D. *Acta Crystallogr.* **C40** (1984) 433-434.
386. 2-Methoxymethoxybenzoic acid, $\text{C}_9\text{H}_{10}\text{O}_4$. Jones, P.G., Sheldrick, G.M., Kirby, A.J., Briggs & A.J. *Acta Crystallogr.* **C40** (1984) 545-547.
387. Bis(cyclohexylammonium) propargyl phosphate dihydrate, $2\text{C}_6\text{H}_{14}\text{N}^+\cdot\text{C}_3\text{H}_3\text{O}_4\text{P}^{2-}\cdot 2\text{H}_2\text{O}$. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Abell, K.W.Y. *Acta Crystallogr.* **C40** (1984) 547-549.
388. [Disulfidothionitrato(1-)](triphenylphosphine sulfide)copper(I), $[\text{Cu}(\text{NS}_3)(\text{C}_{18}\text{H}_{15}\text{PS})]$: a trigonally coordinated Cu(I) complex. Roesky, H.W., Pandey, K.K., Noltemeyer, M. & Sheldrick, G.M. *Acta Crystallogr.* **C40** (1984) 1555-1556.
389. Structure of trimethyl-8,13-diphenyl-13-azatricyclo[8.2.1.0^{2,7}]-trideca-2(7),3,5,11-tetraene-10,11,12-tricarboxylate, $\text{C}_{30}\text{H}_{27}\text{NO}_6$. Mercier, R., Vebrel, J., Schmidt, M. & Sheldrick, G.M. *Acta Crystallogr.* **C40** (1984) 1626-1628.
390. Peptide structures of the alamethicin sequence: the C-terminal $\alpha/3_{10}$ -helical nonapeptide and two pentapeptides of opposite 3_{10} -helicity. Bosch, R., Jung, G., Schmitt, H., Sheldrick, G.M. & Winter, W. *Angew. Chem.* **96** (1984) 440-443; *Angew. Chem. Int. Ed. Engl.* **23** (1984) 450-453.
391. Stepwise synthesis of chain and ring siloxanes - crystal structures. Graalman, O., Klingebiel, U., Clegg, W., Haase, M. & Sheldrick, G.M. *Chem. Ber.* **117** (1984) 2988-2997.
392. Reactions of 1,2,4-thiadiazole-3,5-dicarbonitrile and x-ray structure analysis of methyl 3-cyano-1,2,4-thiadiazole-5-carboximidate. Roesky, H.W., Hofmann, H., Keller, K., Pinkert, W., Jones, P.G. & Sheldrick, G.M. *Chem. Ber.* **117** (1984) 2681-2685.
393. The crystal and molecular structure of the orthorhombic form of thiocyanatotris-(triphenylphosphine)gold(I) monohydrate, $[(\text{Ph}_3\text{P})_3\text{Au}(\text{SCN})]\cdot\text{H}_2\text{O}$. Muir, J.A., Muir, M.M., Arias, S., Jones, P.G. & Sheldrick, G.M. *Inorg. Chim. Acta* **81** (1984) 169-174.
394. Crystal and molecular structure of the DNA-binding antitumor antibiotic triostin A. Sheldrick, G.M., Guy, J.J., Kennard, O., Rivera, V. & Waring M.J. *J. Chem. Soc., Perkin Trans.* **2** (1984) 1601-1605.
395. Preparation and crystal structures of $[\text{As}(\text{CF}_3)_2\text{O}(\text{OH})]_2$, $[\text{As}(\text{CF}_3)\text{O}(\text{OH})\text{Cl}]_2$, and $\text{As}_4(\text{CF}_3)_6\text{O}_6(\text{OH})_2$: a novel cage structure containing four- and six-coordinated arsenic. Bohra, R., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1984) 2011-2014.

396. Reactions of cis-diisocyanidebis(perfluorophenyl)gold(III) complexes with hydrazines. Crystal and molecular structure of bis(perfluorophenyl)[3-phenyl-1,4-bis(p-toluidino)-2,3-diazabut-1-en-1-yl-4-ylidene]gold. Uson, R., Laguna, A., Villacampa, M.D., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1984) 2035-2038.
397. Polynuclear palladium and gold perhalophenyl derivatives with dppm bridges. Crystal and molecular structure of trans-C₆F₅Au(μ-dppm)Pd(C₆F₅)₂(μ-dppm)AuC₆F₅ (dppm = Ph₂PCH₂PPh₂). Uson, R., Laguna, A., Fornies, J., Valenzuela, I., Jones, P.G. & Sheldrick, G.M. *J. Organomet. Chem.* **273** (1984) 129-139.
398. Poly- and spirocyclic silylhydrazones - synthesis and molecular structures. Graalman, O., Hesse, M., Klingebiel, U., Clegg, W., Haase, M. & Sheldrick, G.M. *Z. Anorg. Allg. Chem.* **514** (1984) 49-60.
399. Preparation, properties, and crystal structure of two modifications of gold(I)bromide-pyridine (AuBrNC₅H₅). Conzelmann, W., Hiller, W., Strähle, J. & Sheldrick, G.M. *Z. Anorg. Allg. Chem.* **512** (1984) 169-176.
400. The refinement of unit cell parameters from two-circle diffractometer measurements. Clegg, W. & Sheldrick, G.M. *Z. Kristallogr.* **167** (1984) 23-27.
401. Preparation and structure of 3-chloro-1,1-dioxo-1λ⁶,3λ⁴,5λ⁴-trithia-2,4,6-triaza-2,4,5-cyclohexatriene (S₃N₃O₂Cl). Roesky, H.W., Emmert, R., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B39** (1984) 701-704.
402. The crystal structure of davreuxite, MnAl₆Si₄O₁₇(OH)₂. Sahl, K., Jones, P.G. & Sheldrick, G.M. *Am. Mineral.* **69** (1984) 783-787.
403. 2,5,8,11,14,17,20-Heptaaxaheneicosane-barium isothiocyanate, C₁₄H₃₀O₇Ba(NCS)₂. Weber, G., Hirayama, F., Saenger, W. & Sheldrick, G.M. *Acta Crystallogr.* **C40** (1984) 1570-1572.
404. Digold(III) strontium hydroxide, Au₂Sr(OH)₈. Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr.* **C40** (1984) 1776-1777.
405. Usefulness of polyspiranes for entering hypersurfaces of polycyclic systems - five- and ninefold 1,2-shifts in a pentaspiro[3.0.2.0.3.0.2.0.3.1]nonadecane. Fitjer, L., Kühn, W., Klages, U., Egert, E., Clegg, W., Schormann, N. & Sheldrick, G.M. *Chem. Ber.* **117** (1984) 3075-3092.
406. Crystal structure and catalytic properties of a platinum-iridium mixed cluster, [Pt₂Ir₂(μ-CO)₃(CO)₄(PPh₃)₃]. Bhaduri, S., Sharma, K.R., Clegg, W., Sheldrick, G.M. & Stalke, D. *J. Chem. Soc., Dalton Trans.* (1984) 2851-2853.
407. Preparation and crystal structures of two phosphorus-sulfur rings: (RPS)₄ and (RPS)₂ (R = C₆H₂Me₃-2,4,6). Lensch, C. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1984) 2855-2857.

408. 1,3-Dichloro-5-(trifluoromethyl)-1,3-dithia-2,4,6-triazine. Höfs, H.U., Hartmann, G., Mews, R. & Sheldrick, G.M. *Z. Naturforsch.* **B39** (1984) 1389-1392.

409. Conversion of "LiNS(F)OCMe₃" to a (Li₈)₂ double cluster. Isenberg, W., Mews, R. & Sheldrick, G.M. *Angew. Chem.* **96** (1984) 816-817; *Angew. Chem. Int. Ed. Engl.* **23** (1984) 795-796.

410. Synthesis of a lithium aminosilanolate with cubane structure. Graalman, O., Klingebiel, U., Clegg, W., Haase, M. & Sheldrick, G.M. *Angew. Chem.* **96** (1984) 904-905; *Angew. Chem. Int. Ed. Engl.* **23** (1984) 891-892.

411. Functional siloxanes and cyclotetrasiloxanes - molecular structure of a cycloboratrissiloxane. Graalman, O., Klingebiel, U., Clegg, W., Haase, M. & Sheldrick, G.M. *Z. Anorg. Allg. Chem.* **519** (1984) 87-95.

412. Dithiocyanogen reaction without cleaving the sulfur-sulfur bond: cycloaddition with hexafluoroacetone. Roesky, H.W., Homsy, N.K., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **96** (1984) 1002-1004; *Angew. Chem. Int. Ed. Engl.* **23** (1984) 1000-1001.

413. Insertion of platinum in the sulfur-nitrogen bond of a 1,2,4-thiadiazole: synthesis of a six-membered metallaheterocycle. Roesky, H.W., Hofmann, H., Jones, P.G. & Sheldrick, G.M. *Angew. Chem.* **96** (1984) 971; *Angew. Chem. Int. Ed. Engl.* **23** (1984) 971-972.

414. Synthesis and structure of 7-trifluoromethyl-1,3,5,2,4,6,8-trithiatetrazocine cation. Höfs, H.U., Hartmann, G., Mews, R. & Sheldrick, G.M. *Angew. Chem.* **96** (1984) 1001-1002; *Angew. Chem. Int. Ed. Engl.* **23** (1984) 988-989.

415. Preparation and x-ray structure analysis of a complex from 1,3-dioxane and silver hexafluoroarsenate - [Ag(1,3-C₄H₈O₂)₃](AsF₆). Jones, P.G., Roesky, H.W., Liebermann, J. & Sheldrick, G.M. *Z. Naturforsch.* **B39** (1984) 1729-1731.

416. Structure of bis(μ₃-phenylimido)-tris(tricarbonyliron)(2Fe-Fe), [Fe₃(C₆H₅N)₂(CO)₉]. Clegg, W., Sheldrick, G.M., Stalke, D., Bhaduri, S. & Khwaja, H.K. *Acta Crystallogr.* **C40** (1984) 2045-2047.

417. Conformational versatility of open-chain polyethers: crystal and molecular structures of the bis(thiocyanato)barium (Ba(SCN)₂) complexes of two heptaethylene glycol diaryl ethers. Hilgenfeld, R., Hirayama, F., Bhagwat, V., Saenger, W., Weber, G., Sheldrick, G.M., Sieger, H. & Vögtle, F. *Isr. J. Chem.* **24** (1984) 307-312.

418. Synthesis, structure and dynamics of hexaspiro[2.0.3.0.2.0.3.0.2.0.3.0]heneicosane. Fitjer, L., Klages, U., Kühn, W., Stephenson, D.S., Binsch, G., Noltemeyer, M., Egert, E., & Sheldrick, G.M. *Tetrahedron* **40** (1984) 4337-4349.

419. Reaction of thiocyanogen with chlorotris(triphenylphosphine)copper(I) and crystal structure of μ-dithiocyanato-tetrakis(triphenylphosphine)dicopper(I). Homsy, N.K., Noltemeyer, M., Roesky, H.W., Schmidt, H.G. & Sheldrick, G.M. *Inorg. Chim. Acta* **90** (1984) L59-L60.

420. Bis(cyclohexylammonium) 4-nitrophenyl phosphate dihydrate, $2C_6H_{14}N^+ \cdot C_6H_4NO_6P^{2-} \cdot 2H_2O$. Jones, P.G., Sheldrick, G.M., Kirby, A.J., Abell & K.W.Y. *Acta Crystallogr. C* **40** (1984) 550-552.

421. The crystal structure of a complex between 2,3,11,12-(bis-1,2-acenaphtho)-18-crown-6 and potassium isothiocyanate. Weber, G., Sheldrick, G.M., Merz, A. & Dietl, F. *Inorg. Chim. Acta* **90** (1984) L1-L3.

422. Structure of a tetraalkyl pyrophosphate, bis(2-oxo-1,3,2 λ^5 -dioxaphosphorinan-2-yl) oxide, $C_6H_{12}O_7P_2$. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Briggs, A.J. *Acta Crystallogr. C* **41** (1985) 1374-1377.

423. Structure of 1-methoxymethoxy-3,5-dinitrobenzene, $C_8H_8N_2O_6$. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Briggs, A.J. *Acta Crystallogr. C* **41** (1985) 1377-1379.

424. Structure of two alkyl oxadecalin acetals: 2α -[2-(4-carboxyphenyl)ethoxy]-trans-1-oxadecalin, $C_{18}H_{24}O_4$, and 2α -[2,2-bis(4-chlorophenyl)ethoxy]-trans-1-oxadecalin, $C_{23}H_{26}Cl_2O_2$. Jones, P.G., Sheldrick, G.M., Kirby, A.J. & Briggs, A.J. *Acta Crystallogr. C* **41** (1985) 1380-1383.

425. Dicyanogen as the bridging ligand - preparation and crystal structure of polymeric $[Ag\{(CN)_2\}_2]_n[AsF_6]_n$ with corrugated tetragonal networks. Roesky, H.W., Hofmann, H., Schimkowiak, J., Jones, P.G., Meyer-Bäse, K. & Sheldrick, G.M. *Angew. Chem.* **97** (1985) 403-404; *Angew. Chem. Int. Ed. Engl.* **24** (1985) 417-418.

426. X-ray structural study of $[\alpha$ -(phenylsulfonyl)benzyl lithium-tetramethylethylenediamine] $_2$: chirality of an α -sulfonyl "carbanion". Boche, G., Marsch, M., Harms, K. & Sheldrick, G.M. *Angew. Chem.* **97** (1985) 577-578; *Angew. Chem. Int. Ed. Engl.* **24** (1985) 573-575.

427. Tridentate oxygen-containing ligands as cyclopentadienyl equivalents: structure and properties of $[LRh(\mu-CO)_3RhL]$, $L^- = [(C_5H_5)Co\{P(O)R_2\}_3]^-$. Kläui, W., Scotti, M., Valderrama, M., Rojas, S., Sheldrick, G.M., Jones, P.G. & Schroeder, T. *Angew. Chem.* **97** (1985) 697-698; *Angew. Chem. Int. Ed. Engl.* **24** (1985) 683-684.

428. Computing aspects of crystal structure determination. Sheldrick, G.M. *J. Mol. Struct.* **130** (1985) 9-16.

429. Reactions of hexafluoroacetone with nitriles of main groups V and VI. Roesky, H.W., Lucas, J., Weber, K.L., Djarrah, H., Egert, E., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **118** (1985) 2396-2406.

430. Reactions of hexafluoroacetone with alkali metal cyanates. Roesky, H.W., Lucas, J., Keller, K., Dhathathreyan, K.S., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **118** (1985) 2659-2670.

431. Tetrafluoro-1,2-ethanedisulfonyl dichloride - a precursor for new sulfur-nitrogen-carbon heterocycles. Roesky, H.W., Thiel, A., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **118** (1985) 2811-2821.

432. Perhalogenated 1,2,3,5-dithiadiazolium salts and 1,2,3,5-dithiadiazoles. Höfs, H.U., Bats, J.W., Gleiter, R., Hartmann, G., Mews, R., Eckert-Maksic, M., Oberhammer, H. & Sheldrick, G.M. *Chem. Ber.* **118** (1985) 3781-3804.

433. Structures of tetraphenylarsonium 1,1,1-tetrachlorocyclo- $1\lambda^6$ -molybdata-3,5-dithia-2,4,6-triazine and 1,1,1-trichloro-1-acetonitrilo-cyclo- $1\lambda^6$ -tungsta-3,5-dithia-2,4,6-triazine: pseudo-Jahn-Teller distortions of cyclic 8π systems. Anhaus, J., Jones, P.G., Noltemeyer, M., Pinkert, W., Roesky, H.W. & Sheldrick, G.M. *Inorg. Chim. Acta* **97** (1985) L7-L9.

434. Dicationic 2-[(dimethylamino)methyl]phenylgold(III) complexes. Crystal and molecular structure of $[\text{Au}(2\text{-C}_6\text{H}_4\text{CH}_2\text{NMe}_2)(\text{py})_2](\text{BF}_4)_2 \cdot \text{MeCOMe}$. Vicente, J., Chicote, M.T., Bermudez, M.D., Jones, P.G. & Sheldrick, G.M. *J. Chem. Res. S* (1985) 72-3; *M* (1985) 954-968.

435. Structural and nuclear magnetic resonance studies of short selenium-nitrogen bonds. Roesky, H.W., Weber, K.L., Seseke, U., Pinkert, W., Noltemeyer, M., Clegg, W. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1985) 565-571.

436. Preparation and crystal structure of bis(tetraphenylarsonium) μ -[bis(trifluoromethyl)methylenediimino-NN']bis(pentachlorotungstate). Homsy, N.K., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1985) 2205-2207.

437. Synthesis of gold(I) and -(III) complexes with carbonyl-stabilized phosphorus ylides. Crystal structure of μ -ethoxycarbonyl(triphenylphosphoranylidene)methylbis(triphenylphosphine)gold(Au-Au) perchlorate. Vicente, J., Chicote, M.T., Cayuelas, J.A., Fernandez-Baeza, J., Jones, P.G., Sheldrick, G.M., Espinet, P. *J. Chem. Soc., Dalton Trans.* (1985) 1163-1168.

438. Structure and bonding relations of 1,4-dithia-2,6-diaza-3,5-diborinanes. Habben, C., Meller, A., Noltemeyer, M. & Sheldrick, G.M. *J. Organomet. Chem.* **288** (1985) 1-12.

439. Terminal pentafluorobenzimidoylpalladium(II) complexes. X-ray structure of $\text{trans-}[\text{Pd}\{\text{C}(\text{C}_6\text{F}_5) = \text{NMe}\}\text{Cl}(\text{CNMe})_2]$. Uson, R., Fornies, J., Espinet, P., Lalinde, E., Jones, P.G. & Sheldrick, G.M. *J. Organomet. Chem.* **288** (1985) 249-259.

440. Catalytic olefin hydrogenation with nonacarbonyltris(triphenylphosphine)triruthenium and its derivatives. Crystal structure of $[\text{Ru}_2(\text{CO})_5(\text{PPh}_3)(\mu\text{-PPh}_2)(\mu\text{-O:CPh})]$. Basu, A., Bhaduri, S., Khwaja, H., Jones, P.G., Schroeder, T. & Sheldrick, G.M. *J. Organomet. Chem.* **290** (1985) C19-C22.

441. Reaction of thiazyl fluoride with multifunctional nitrogen derivatives. Isenberg, W., Mews, R. & Sheldrick, G.M. *Z. Anorg. Allg. Chem.* **525** (1985) 54-66.

442. The crystal structure of Δ^5 -9,11-seco-gorgostene- $3\beta,11,24\beta$ -triol-9-one. Korp, J.D., Bernal, I., Campana, C.F. & Sheldrick, G.M. *Z. Kristallogr.* **170** (1985) 205-212.

443. Synthesis and crystal structure of 1,1,1,3,3,3-hexafluoro-2-propylamino-1-thiooxamide. Roesky, H.W., Hofmann, H., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch. B40* (1985) 124-126.

444. Reactions of the hexafluorothioacetone dimer with cyanides of phosphorus, arsenic and germanium. Roesky, H.W., Dhathathreyan, K.S., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B40** (1985) 240-246.

445. Oxidative formation of a phosphorus-phosphorus bond in the presence of silver(I) and copper(II) ions: synthesis and structure of $[(C_6H_5)PH_2Ag\{\mu-(C_6H_5PH)_2\}]_2(AsF_6)_2$, containing a six-membered silver-phosphorus ring. Jones, P.G., Roesky, H.W., Grützmacher, H. & Sheldrick, G.M. *Z. Naturforsch.* **B40** (1985) 590-593.

446. Facile synthesis and crystal structure of $[(PhSO_2N)_2W^{VI}Cl_2(CH_3CN)_2]$ - the oxidative imination of tungsten hexacarbonyl by N,N-dichlorophenylsulfonamide. Roesky, H.W., Sundermeyer, J., Schimkowiak, J., Jones, P.G., Noltemeyer, M., Schroeder, T. & Sheldrick, G.M. *Z. Naturforsch.* **B40** (1985) 736-739.

447. Synthesis and structure of (trifluoroacetyl)dicyanomethanide. Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B40** (1985) 883-885.

448. From a fluorosilane to a siloxane. 1,3-Migration of silyl groups in the Si_3CSiO system. Klingebiel, U., Pohlmann, S., Skoda, L., Lensch, C. & Sheldrick, G.M. *Z. Naturforsch.* **B40** (1985) 1023-1028.

449. Studies of the triphenylphosphinegold(I)/sulfate system. Synthesis and crystal structure of $(Ph_3PAu)_2SO_4 \cdot MeOH$. Hohbein, R., Jones, P.G., Meyer-Bäse, K., Schwarzmann, E. & Sheldrick, G.M. *Z. Naturforsch.* **B40** (1985) 1029-1031.

450. Synthesis and properties of piperidine N-oxo-boranes. Armbrrecht, M., Maringgele, W., Meller, A., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B40** (1985) 1113-1122.

451. Crystal structure of 2,4,4-trifluoro-1,3-dithietan-2-ylum hexafluoroarsenate. Antel, J., Harms, K., Jones, P.G., Mews, R., Sheldrick, G.M. & Waterfeld, A. *Chem. Ber.* **118** (1985) 5006-5008.

452. Synthesis of trinuclear gold(I) and gold(III) complexes containing the tridentate bis(diphenylphosphino)methanide ligand. Crystal structure of $[Cl(C_6F_5)_2Au\{Ph_2PCH(AuNC_5H_5)PPh_2\}AuCl]$. Uson, R., Laguna, A., Laguna, M., Manzano, B.R., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1985) 2417-2420.

453. Hetero-Diels-Alder reaction of enaminecarbaldehydes. An entry to branched amino sugars. Tietze, L.F., Voss, E., Harms, K. & Sheldrick, G.M. *Tetrahedron Lett.* **26** (1985) 5273-5276.

454. Iridium(III) complexes with 9-methylguanine. Bauer, H., Sheldrick, G.M., Nagel, U. & Beck, W. *Z. Naturforsch.* **B40** (1985) 1237-1242.

455. SHELX-84. Sheldrick, G.M. *Crystallogr. Comput.: Data Collect., Struct. Determ., Proteins, Databases* (1985) 184-189. Edited by: Sheldrick, G.M., Krüger, C. & Goddard, R. Oxford Univ. Press: Oxford.

456. Crystallographic algorithms for mini and maxi computers. Sheldrick, G.M. *Crystallogr. Comput.: Data Collect., Struct. Determ., Proteins, Databases* (1985) 175-183. Edited by: Sheldrick, G.M., Krüger, C. & Goddard, R. Oxford Univ. Press: Oxford.
457. Search for a fragment of known geometry by integrated Patterson and direct methods. Egert, E. & Sheldrick, G.M. *Acta Crystallogr. A* **41** (1985) 262-268.
458. Elloramycin. Jones, P.G., Sheldrick, G.M., Rohr, J. & Zeeck, A. *Acta Crystallogr. C* **41** (1985) 255-257.
459. Structures of two gold(I) complexes with tricyclohexylphosphine: [(Cy₃P)AuCl] and [(Cy₃P)₂Au]⁺Cl⁻. Muir, J.A., Muir, M.M., Pulgar, L.B., Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr. C* **41** (1985) 1174-1176.
460. Synthesis and structural characterization of [Ru₈(μ₈-P)(μ₂-η¹,η⁶-CH₂C₆H₅)(μ₂-CO)₂(CO)₁₇]. Example of phosphorus encapsulated in a square anti-prism of ruthenium atoms and of an unusual coordination mode for the benzyl group. Bullock, L.M., Field, J.S., Haines, R.J., Minshall, E., Smit, D.N. & Sheldrick, G.M. *J. Organomet. Chem.* **310** (1986) C47-C50.
461. Tetrasulfur tetranitride as a tridentate ligand in IrX(CO)(PPh₃)(S₄N₄) complexes. Edelmann, F., Roesky, H.W., Spang, C., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **98** (1986) 908-909; *Angew. Chem. Int. Ed. Engl.* **25** (1986) 931.
462. Unusual conformations of isoelectronic (SiO)₄, (SiOSiN)₂ and (SiN)₄ rings. Egert, E., Haase, M., Klingebiel, U., Lensch, C., Schmidt, D. & Sheldrick, G.M. *J. Organomet. Chem.* **315** (1986) 19-25.
463. Synthesis and rearrangement of functionalized dispiro[2.1.3]undecanes - preferred C₄-C₅ over C₃-C₄ ring enlargements. Fitjer, L., Majewski, M., Kanschik, A., Egert, E. & Sheldrick, G.M. *Tetrahedron Lett.* **27** (1986) 3603-3606.
464. Structure of the tetrahydrofuran adduct of mono-N-lithiohexamethylcyclotrisilazane. Haase, M. & Sheldrick, G.M. *Acta Crystallogr. C* **42** (1986) 1009-1011.
465. Synthesis and crystal and molecular structure of a new tricyclic B₃N₄S₂Si₂ system. Habben, C., Meller, A., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **98** (1986) 717-718; *Angew. Chem. Int. Ed. Engl.* **25** (1986) 741-742.
466. Synthesis and molecular and crystal structure of [3,5-dimethyl-2,6-bis(trimethylsilyl)-1-thia-2,4,6-triaza-3,5-diborinane]tungsten pentacarbonyl. Habben, C., Meller, A., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch. B* **41** (1986) 799-802.
467. Stereochemistry of a hetero-Diels-Alder product. Harms, K., Sheldrick, G.M. & Tietze, L.F. *Acta Crystallogr. C* **42** (1986) 1664-1665.
468. Structure of a cycloheptenone derivative. Harms, K., Sheldrick, G.M., Reichert, U. & Tietze, L.F. *Acta Crystallogr. C* **42** (1986) 1662-1663.

469. Structure of an indolochinolizine derivative. Harms, K., Sheldrick, G.M., Schul, W. & Tietze, L.F. *Acta Crystallogr. C* **42** (1986) 1665-1667.
470. Structure of an iridoid-like photolysis product. Harms, K., Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr. C* **42** (1986) 1661-1662.
471. Structure of a photolysis product. Harms, K., Sheldrick, G.M., Glüsenkamp, K.H. & Tietze, L.F. *Acta Crystallogr. C* **42** (1986) 1269-1271.
472. Structure of an unexpected indole photolysis product. Harms, K., Sheldrick, G.M., Brüggemann, K. & Tietze, L.F. *Acta Crystallogr. C* **42** (1986) 1264-1266.
473. 3:1-Complexes of hexachlor-dibenzo-p-dioxin-2,3-quinone with 2,3,7,8-tetramethoxythianthrene and -selenanthrene. Hinrichs, W., Berges, P., Klar, G. & Sheldrick, G.M. *Z. Naturforsch.* **B41** (1986) 1133-1141.
474. Highly diastereoselective synthesis of 1,2-epoxy-4-hydroxyalkyl carbamates. Masked and activated α,γ -dihydroxyalkanals and -alkanones. Hoppe, D., Lüßmann, J., Jones, P.G., Schmidt, D. & Sheldrick, G.M. *Tetrahedron Lett.* **27** (1986) 3591-3594.
475. Structures of three trityl ethers of 1-arylethanols: 1-phenylethyl, 1-(4-chlorophenyl)ethyl and 1-(4-nitrophenyl)ethyl triphenylmethyl ethers. Jones, P.G., Sheldrick, G.M., Edwards, M.R. & Kirby, A.J. *Acta Crystallogr. C* **42** (1986) 1361-1364.
476. Reactions of (η^2 -ethene)bis(triphenylphosphine)platinum(0) with dimeric hexafluorothioacetone. Preparation and structure of platinacyclopentane and -cyclopropane derivatives. Jones, P.G., Roesky, H.W., Gries, T., Meyer-Bäse, K. & Sheldrick, G.M. *Z. Anorg. Allg. Chem.* **542** (1986) 46-52.
477. Cyclodisilazane cations - synthesis and crystal structure. Kliebisch, U., Klingebiel, U., Stalke, D. & Sheldrick, G.M. *Angew. Chem.* **98** (1986) 921-922; *Angew. Chem. Int. Ed. Engl.* **25** (1986) 915-916.
478. Diastereoselective synthesis of 2,3,4-trisubstituted γ -lactols and γ -lactones via regio- and stereo-controlled opening of a 1,2-epoxy-4-hydroxyalkyl carbamate with hetero-nucleophiles. Lüßmann, J., Hoppe, D., Jones, P.G., Fittschen, C. & Sheldrick, G.M. *Tetrahedron Lett.* **27** (1986) 3595-3598.
479. Synthesis of 9-bora-10-oxaphenanthrenes, bis(2'-terphenyloxy)haloboranes, and bis(9-bora-10-oxaphenanthrenyl) oxides. Maringgele, W., Meller, A., Noltemeyer, M. & Sheldrick, G.M. *Z. Anorg. Allg. Chem.* **536** (1986) 24-34.
480. Addition reactions of 1,1-dicyano-2,2-bis(trifluoromethyl)ethene. Roesky, H.W., Plenio, H., Keller, K., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **119** (1986) 3150-3157.
481. Synthesis and properties of tribromo-cyclo- $1\lambda^6$ -tungsten-3,5-dithia-2,4,6-triazene. Roesky, H.W., Schimkowiak, J., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B41** (1986) 175-178.
482. Preparation and crystal structures of $[\text{Ph}_4\text{As}^+][\text{PS}_2(\text{N}_3)_2^-]$ and $[(n\text{-C}_3\text{H}_7)_4\text{N}^+]_2[(\text{NCPS}_2)_2\text{S}^{2-}]$. Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B41** (1986) 803-807.

483. Synthesis and structure of N-thiobis-N'-(phenylsulfonyl)sulfur diimide. Roesky, H.W., Sundermeyer, J., Noltemeyer, M., Sheldrick, G.M., Meyer-Bäse, K. & Jones, P.G. *Z. Naturforsch.* **B41** (1986) 53-58.
484. Preparation and structure of new six-membered metallaheterocycles - insertion of platinum in selenium-nitrogen and sulfur-nitrogen bonds. Roesky, H.W., Gries, T., Hofmann, H., Schimkowiak, J., Jones, P.G., Meyer-Bäse, K. & Sheldrick, G.M. *Chem. Ber.* **119** (1986) 366-373.
485. Reactions of 1,2,4-thiadiazole-3,5-dicarbonitrile with sulfur chlorides. X-ray crystal structure analysis of $S_3(CN)_4Cl_2 \cdot AsF_5$ and $S_3(CN)_8Cl_2$. Roesky, H.W., Sundermeyer, J., Schimkowiak, J., Gries, T., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B41** (1986) 162-166.
486. Reactions of tungsten hexafluoride with N-(trimethylsilyl)iminotriphosphoranes - crystal structure of $(Me_3P=N)_2WF_4$. Roesky, H.W., Katti, K.V., Seseke, U., Scholz, U., Herbst, R., Egert, E. & Sheldrick, G.M. *Z. Naturforsch.* **B41** (1986) 1509-1512.
487. Synthesis and structures of bicyclic phosphoranes - products resulting from the reaction of hexafluoroacetone with mercury salts. Roesky, H.W., Pogatzki, V.W., Dhathathreyan, K.S., Thiel, A., Schmidt, H.G., Dyrbusch, M., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **119** (1986) 2687-2697.
488. Synthesis and crystal structure of the anion $[P_4S_9N]^-$. Roesky, H.W., Benmohamed, N., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B41** (1986) 938-940.
489. Synthesis and crystal structure of $W_2[OC(CF_3)_2NMe_2]_2(NMe_2)_4$. Roesky, H.W., Bertel, N., Edelmann, F., Herbst, R., Egert, E. & Sheldrick, G.M. *Z. Naturforsch.* **B41** (1986) 1506-1508.
490. Triphenylphosphineiminato-substituted tungsten(VI) fluorides. Crystal structure of tetrafluorobis-(triphenylphosphineiminato) tungsten(VI). Roesky, H.W., Seseke, U., Noltemeyer, M., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1986) 1309-1310.
491. A transition metal as a component of a cyclic phosphazene - synthesis and structure of cyclic $[Cl_3WN_3(PPh_2)_2]$. Roesky, H.W., Katti, K.V., Seseke, U., Witt, M., Egert, E., Herbst, R. & Sheldrick, G.M. *Angew. Chem.* **98** (1986) 447-448; *Angew. Chem. Int. Ed. Engl.* **25** (1986) 477-478.
492. Mono- and binuclear gold(I), gold(II), and gold(III) perhaloaryl complexes with the ligand bis(diphenylphosphino)amine. Crystal and molecular structure of μ -[bis(diphenylphosphino)amine]-dichlorobis(pentafluorophenyl)digold(II). Uson, R., Laguna, A., Laguna, M., Fraile, M.N., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1986) 291-296.
493. Some attempts to prepare five-coordinated gold(III) complexes. Crystal and molecular structures of $[Au(C_6H_4CH_2NMe_2-2)(phen)(PPh_3)][BF_4]_2 \cdot CH_2Cl_2$, $[Au(C_6H_4CH_2NMe_2-2)(NC_9H_6O)]BF_4$, and $[Au(C_6H_4CH_2NMe_2-2)(H_2NC_6H_4S)]ClO_4$. Vicente, J., Chicote, M.T., Bermudez, M.D., Jones, P.G., Fittschen, C. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1986) 2361-2366.
494. Synthesis of mixed diarylgold(III) complexes. Crystal structure of cis-[2-(phenylazo)phenyl][2-((dimethylamino)methyl)phenyl]gold(III) tetrachloroaurate. Vicente, J., Chicote, M.T., Bermudez, M.D.,

Sanchez-Santano, M.J., Jones, P.G., Fittschen, C. & Sheldrick, G.M. *J. Organomet. Chem.* **310** (1986) 401-409.

495. Synthesis and reactivity of bis(o-nitrophenyl)platinum. X-ray crystal and molecular structure of (o-nitrophenyl-C1)(o-nitrophenyl-C1O)(triphenylphosphine)platinum(II). Vicente, J., Chicote, M.T., Martin, J., Jones, P.G., Fittschen, C. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1986) 2215-2220.

496. Synthesis and molecular and crystal structure of 3-[(2,6-dimethylphenyl)amino]-4,5-diethyl-1,2,3-diselenaborole. Habben, C., Meller, A., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B41** (1986) 1093-1095.

497. Structure of 5-isopropyl-4-methyl-1,3-diphenyl-3a,4,5,9b-tetrahydropyrazolo[3,4-c]isoquinoline. Mercier, R., Kitane, S., Tshiamala, K., Vebrel, J., Laude, B. & Sheldrick, G.M. *Acta Crystallogr.* **C42** (1986) 1844-1846.

498. An enantiospecific hetero-Diels-Alder product. Harms, K., Sheldrick, G.M., Glüsenkamp, K.H. & Tietze, L.F. *Acta Crystallogr.* **C42** (1986) 1268-1269.

499. Crown-shaped tetrametallic imido complexes of palladium. X-ray crystal structure of 1,2,3,4-di- μ -(acetato-O,O')-1,2,3,4-di- μ -chloro-1,4,1,4,2,3,2,3-tetra- μ -(pentafluoro-N-methylbenzimidoyl-C,N)-tetrapalladium(II). Uson, R., Fornies, J., Espinet, P., Lalinde, E., Garcia, A., Jones, P.G., Meyer-Bäse, K. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1986) 259-264.

500. Structure of a new antibiotic and cytotoxic indicator substance, urdamycin A. Zeeck, A., Rohr, J., Sheldrick, G.M., Jones, P.G. & Paulus, E.F. *J. Chem. Res. S* (1986) 104-105.

501. Synthesis of mono-, di-, and trinuclear gold complexes containing the (diphenylphosphino)methyldiphenylphosphoniomethanide ligand. Crystal structures of $[\text{Au}(\text{C}_6\text{F}_5)(\text{Ph}_2\text{PCHPh}_2\text{Me})]$ and $[(\text{C}_6\text{F}_5)\text{Au}\{\text{Ph}_2\text{PCH}(\text{PPh}_2\text{Me})\}\text{Au}(\text{C}_6\text{F}_5)]$. Uson, R., Laguna, A., Laguna, M., Lazaro, I., Morata, A., Jones, P.G. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1986) 669-675.

502. A rhodium complex with an asymmetric molybdenum atom in the chelate framework. Brunner, H., Wachter, J., Schmidbauer, J., Sheldrick, G.M. & Jones, P.G. *Angew. Chem.* **98** (1986) 339-341; *Angew. Chem. Int. Ed. Engl.* **25** (1986) 371-373.

503. Di- and tetranuclear complexes with bis(diphenylphosphino)amide and bis(diphenylphosphino)methanide as bi- and tridentate ligands. X-ray structures of $[(\text{Ph}_3\text{P})(\text{O}_3\text{ClO})\text{AgN}(\text{Ph}_2\text{PAuPPh}_2)_2\text{N}(\text{OCIO}_3)(\text{PPh}_3)]$ and $[(\text{C}_6\text{F}_5)\text{AuCH}(\text{Ph}_2\text{PAuPPh}_2)_2\text{CHAu}(\text{C}_6\text{F}_5)]$. Uson, R., Laguna, A., Laguna, M., Gimeno, M.C., Jones, P.G., Fittschen, C. & Sheldrick, G.M. *Chem. Commun.* (1986) 509-510.

504. Punctatins A, D, E, and F (antibiotics M95464, M167906, M171950, and M189122), isomeric allylic alcohols from the fungus *poronia punctata*: x-ray crystal structures of D and of E acetonide. Poyser, J.P., Edwards, R.L., Anderson, J.R., Hursthouse, M.B., Walker, N.P.C., Sheldrick, G.M. & Whalley, A.J.S. *J. Antibiot.* **39** (1986) 167-169.

505. Reaction of nitrobenzene with triiron or triruthenium dodecacarbonyl in the presence of dicobalt octacarbonyl: isolation and structure of 3-(1-6--benzene)- μ_3 -carbonyl-1,1,1,2,2,2-hexacarbonyl- μ_3 -(phenylimido)-triangulo-triruthenium. Basu, A., Bhaduri, S., Khwaja, H., Jones, P.G., Meyer-Bäse, K. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1986) 2501-2503.
506. Cyclic $\text{Cp}(\text{CO})_2\text{Mo}[\text{NH}(\text{R}^*)\text{CH}(\text{py})]$ complexes and their rhodium norbornadiene derivatives: stereochemistry and absolute configuration of the metallaziridine system. Brunner, H., Wachter, J., Schmidbauer, J., Sheldrick, G.M. & Jones, P.G. *Organometallics* **5** (1986) 2212-2219.
507. Reaction of isoquinolinetriene and 1,3(2H,4H)-isoquinolinedion-4-ylidene derivatives with trialkyl phosphites. Jo, I.H., Oh, D.Y., Noltemeyer, M. & Sheldrick, G.M. *Phosphorus Sulfur* **28** (1986) 337-343.
508. Thiazyl[bis(trifluoromethyl)nitroxide] and tris[thiazyl[bis(trifluoromethyl)nitroxide]]. Hartmann, G., Mews, R., Sheldrick, G. M., Anderskewitz, R., Niemeyer, M., Emeleus, H.J. & Oberhammer, H. *J. Fluorine Chem.* **34** (1986) 46-58.
509. New heterocyclic compounds containing niobium and molybdenum, crystal structure of a cyclomolybdaphosphazene. Roesky, H.W., Katti, K.V., Seseke, U., Schmidt, H.G., Egert, E., Herbst, R. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1987) 847-849.
510. 3,3-bis(trifluoromethyl)-2,2-bis(triphenylphosphano)-1-thia-2 λ^4 -palladacyclopropane. Jones, P.G., Meyer-Bäse, K., Schroeder, T. & Sheldrick, G.M. *Acta Crystallogr.* C43 (1987) 32-34.
511. Crystal structures of $[\text{Met}^5]$ and $[(4\text{-bromo})\text{Phe}^4, \text{Met}^5]$ enkephalins: formation of a dimeric antiparallel β -structure. Doi, M., Tanaka, M., Ishida, T., Inoue, M., Fujiwara, T., Tomita, K., Kimura, T., Sakakibara, S. & Sheldrick, G.M. *J. Biochem.* **101** (1987) 485-490.
512. Four-membered SiNSiO rings by lithium fluoride elimination. Crystal structure of an eight-membered FLiNSi ring. Dippel, K., Klingebiel, U., Sheldrick, G.M. & Stalke, D. *Chem. Ber.* **120** (1987) 611-616.
513. Synthesis and structure of $\text{H}_2\text{NSO}_2\text{NWCl}_4$ - a Kirsanov reagent with a transition metal atom. Witt, M., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* B42 (1987) 519-521.
514. Carbene-analogous reactions of the products of dehalogenation of dichloro(diisopropyl-amino)borane with aromatic compounds and 1,2-dimethoxyethane. Meller, A., Maringgele, W., Elter, G., Bromm, D., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **120** (1987) 1437-1439.
515. Hexaethylcyclopropanehexacarboxylate. Schruppf, G., Jones, P.G. & Sheldrick, G.M. *Acta Crystallogr.* C43 (1987) 1758-1760.
516. From lithiated aminofluorosilanes to mono- and dimeric iminosilanes. Stalke, D., Keweloh, N., Klingebiel, U., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* B42 (1987) 1237-1244.

517. X-ray structure of methyl 3,6-anhydro- β -L-gulofuranoside. Kopf, J., Köll, P. & Sheldrick, G.M. *Carbohydr. Res.* **168** (1987) 115-119.
518. Preparation of the titanium bithionylimide complex $[\text{Cp}_2\text{Ti}(\text{NSO})_2]$ and the silyl sulfur diimide derivative $[\text{Cp}_2\text{Ti}(\text{NSNSiMe}_3)_2]$: precursors of novel metallacycles. Crystal structure of the thionylimide (Cp = $\eta^5\text{C}_5\text{H}_5$). Plenio, H., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Chem. Commun.* (1987) 1483-1484.
519. Tetrachlorophosphonium(V) tetrachloroaurate(III). Erdbrügger, C.F., Jones, P.G., Schelbach, R., Schwarzmann, E. & Sheldrick, G.M. *Acta Crystallogr. C* **43** (1987) 1857-1859.
520. Reactions of transition metal halides with derivatives of dimethylsulfoximine. X-ray single crystal structure analysis of $\text{F}_5\text{WNS}(\text{O})\text{Me}_2$ and $\text{F}_4\text{W}[\text{NS}(\text{O})\text{Me}_2]_2$. Roesky, H.W., Scholz, M., Edelmann, F., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **120** (1987) 1881-1884.
521. Asymmetric induction in Grignard and hetero-Diels-Alder reactions of chiral α,β -unsaturated carbonyl compounds. Tietze, L.F., Brand, S., Pfeiffer, T., Antel, J., Harms, K. & Sheldrick, G.M. *J. Am. Chem. Soc.* **109** (1987) 921-923.
522. Bis(triphenylphosphorane-diyl)ammonium tetrachloronitridomolybdate(VI). Jones, P.G., Schroeder, T. & Sheldrick, G.M. *Acta Crystallogr. C* **43** (1987) 355-357.
523. Bis(triphenylphosphorane-diyl)ammonium tetrachloroferrate(III). Jones, P.G., Schroeder, T. & Sheldrick, G.M. *Acta Crystallogr. C* **43** (1987) 357-358.
524. Bis(triphenylphosphorane-diyl)ammonium 2,5,7-tricyanoimidazo[3,4-b][1,2,4]triazol-1-ide, a salt of the C_7N_7^- anion. Jones, P.G., Pinkert, W. & Sheldrick, G.M. *Acta Crystallogr. C* **43** (1987) 369-370.
525. 1-(4-Nitrophenyl)ethyl p-toluenesulfonate. Jones, P.G., Meyer-Bäse, K. & Sheldrick, G.M. *Acta Crystallogr. C* **43** (1987) 366-367.
526. Three-dimensional similarity between dimeric extended and β -folded enkephalin structure: crystal structure of Met-enkephalin and its derivative, H-Tyr-Gly-Gly-(4-bromo)Phe-Met-OH. Doi, M., Tanaka, M., Ishida, T., Inoue, M., Fujiwara, T., Tomita, K., Kimura, T., Sakakibara, S. & Sheldrick, G.M. *Pept. Chem.* **24** (1987) 131-134.
527. Synthesis and structure of the first cyclophosphazene containing a metal-metal bond within the ring skeleton. Herbst, R., Katti, K.V., Roesky, H.W. & Sheldrick, G.M. *Z. Naturforsch.* **B42** (1987) 1387-1390.
528. Reaction of cyanoformamidines with 2,2,4,4-tetrakis(trifluoromethyl)-1,3-dithietane. Grützmacher, H., Keweloh, N., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *J. Fluorine Chem.* **37** (1987) 279-287.
529. Structural aspects of some organoalkali metal compounds. Boche, G., Marsch, M., Massa, W., Baum, G., Klebe, G., Boehn, K.H., Harms, K. & Sheldrick, G.M. *Stud. Org. Chem. (Amsterdam)* **31** (1987) 149-152.

530. Substitution reactions of N-[1-chloro-2,2,2-trifluoro-1-(trifluoromethyl)ethyl]dimethylformamide. Grützmacher, H., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B42** (1987) 1245-1248.
531. Synthesis and crystal structure of seven-membered sulfur-nitrogen rings containing carbon. Roesky, H.W., Benmohamed, N., Keller, K., Keweloh, N., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B42** (1987) 1249-1252.
532. Synthesis and structure of bicyclic sulfur-nitrogen metal complexes containing arsenic. Edelmann, F., Spang, C., Noltemeyer, M., Sheldrick, G.M., Keweloh, N. & Roesky, H.W. *Z. Naturforsch.* **B42** (1987) 1107-1109.
533. Preparation and structural investigations of fluorinated tungsten(VI) alkoxides. Plenio, H., Egert, E., Nieger, M., Roesky, H.W., Schmidt, H.G. & Sheldrick, G.M. *J. Fluorine Chem.* **38** (1988) 187-204.
534. N,N-Bis(trimethylstannyl)di-tert-butylfluoronsilylamine, a sterically hindered molecule. Stalke, D., Klingebiel, U. & Sheldrick, G.M. *J. Organomet. Chem.* **341** (1988) 119-124.
535. Two ways to silicon-functional cyclosilanes - crystal structure of 1,3,6,8,10,12-hexaaza-2,4,5,7,9,11-hexasiladispiro[4.1.4.1]dodecane. Bartholmei, S., Klingebiel, U., Sheldrick, G.M. & Stalke, D. *Z. Anorg. Allg. Chem.* **556** (1988) 129-140.
536. Bicyclic lithio(tert-butylamino)fluorosilane, a molecule with di- and tetracoordinated lithium. Stalke, D., Klingebiel, U. & Sheldrick, G. M. *J. Organomet. Chem.* **344** (1988) 37-48.
537. Specific ring stacking interaction on the tryptophan-7-methylguanine system: comparative crystallographic studies of indole derivatives - 7-methylguanine base, nucleoside, and nucleotide complexes. Ishida, T., Doi, M., Ueda, H., Inoue, M. & Sheldrick, G.M. *J. Am. Chem. Soc.* **110** (1988) 2286-2294.
538. Crystal and molecular structure of didemnin B, an antiviral and cytotoxic depsipeptide. Hossain, M.B., Van der Helm, D., Antel, J., Sheldrick, G.M., Sanduja, S.K. & Weinheimer, A.J. *Proc. Natl. Acad. Sci. U. S. A.* **85** (1988) 4118-4122.
539. Assignment of proton and carbon NMR signals of didemnin A in solution. Kessler, H., Will, M., Sheldrick, G.M. & Antel, J. *Magn. Reson. Chem.* **26** (1988) 501-506.
540. Complexes with substituted 2,5-dihydroxy-p-benzoquinones. The layer compound $\text{Ca}[\text{C}_6(\text{CHMe}_2)_2\text{O}_4\text{H}]_2 \cdot 2/3 \text{H}_2\text{O}$. Robl, C. & Sheldrick, G.M. *Z. Naturforsch.* **B43** (1988) 733-738.
541. Reactions of a trifluoromethyl-substituted formamidine. Grützmacher, H., Roesky, H.W., Noltemeyer, M., Keweloh, N. & Sheldrick, G.M. *J. Fluorine Chem.* **39** (1988) 357-371.
542. Benzamidinato complexes of main group and transition metals. Crystal structures of $\text{PhC}(\text{NSiMe}_3)_2\text{TiCl}_2$ and $\text{PhC}(\text{NSiMe}_3)_2\text{MoO}_2$. Roesky, H.W., Meller, B., Noltemeyer, M., Schmidt, H.G., Scholz, U. & Sheldrick, G.M. *Chem. Ber.* **121** (1988) 1403-1406.

543. Preparation of S,S-diphenyl-N-(trimethylsilyl)sulfinimine and reactions with tungsten hexafluoride. X-ray structure analysis of $F_4W(N=SPh_2)_2$. Roesky, H.W., Zimmer, M., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **121** (1988) 1377-1379.
544. Stereoselective synthesis of trans-decalin by intramolecular ene reaction. Synthesis of enantiomeric pure cadinane-sesquiterpene veticadinol. Tietze, L.F., Beifuss, U., Antel, J. & Sheldrick, G.M. *Angew. Chem.* **100** (1988) 739-741; *Angew. Chem. Int. Ed. Engl.* **27** (1988) 703-705.
545. Synthesis, properties, and crystal structure of ammonium tetrabromooxonobate(1-). Hörner, M., Hiller, W., Strähle, J. & Sheldrick, G.M. *Z. Naturforsch.* **B43** (1988) 981-984.
546. N,N'-Bis(diphenylphosphino)-S,S-dimethylsulfodiimine - a ligand for cyclic transition metal complexes. Roesky, H.W., Zimmer, M., Herbst, R. & Sheldrick, G.M. *Z. Naturforsch.* **B43** (1988) 933-936.
547. From dilithiooctamethylcyclotetrasilazane to the 1,3,5,7-tetraaza-2,4,6,8,9-pentasilabicyclo-[3.3.1]nonane system. Dippel, K., Klingebiel, U., Noltemeyer, M., Pauer, F. & Sheldrick, G.M. *Angew. Chem.* **100** (1988) 1093-1094; *Angew. Chem. Int. Ed. Engl.* **27** (1988) 1074-1075.
548. The reaction of cyanogen with cadmium(II) ions. X-Ray structure analysis of $[Cd\{(CN)_2\}_2SO_2][AsF_6]_2$. Roesky, H.W., Schimkowiak, J., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B43** (1988) 949-951.
549. Reactions of the higher halides of niobium, molybdenum, and tungsten with the phosphorus-ylide $(Et_2N)_3P=CH_2$. X-ray structure of $[(Et_2N)_3PCH_2]_2^{2+}[WCl_6]^{2-}$. Roesky, H.W., Mainz, B., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B43** (1988) 941-944.
550. The first complexes of cyanogen halides with silver(I): crystal structure of bis(cyanogen chloride-N)silver(I) hexafluoroantimonate(V). Roesky, H.W., Schimkowiak, J., Jones, P.G., Noltemeyer, M. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1988) 2507-2508.
551. Induced and non-induced diastereoselective intramolecular ene reaction of 1,6-dienes: the unusual formation of trans-1,2-disubstituted cyclopentanes. Tietze, L.F., Beifuss, U., Ruther, M., Rühlmann, A., Antel, J. & Sheldrick, G.M. *Angew. Chem.* **100** (1988) 1200-1201; *Angew. Chem. Int. Ed. Engl.* **27** (1988) 1186-1187.
552. Structure of hexahydrobenzo[a]quinolizine derivative. Antel, J., Sheldrick, G.M., Brill, G. & Tietze, L.F. *Acta Crystallogr.* **C44** (1988) 1690-1692.
553. Structure of an indoloquinolizine derivative. Antel, J., Sheldrick, G.M., Bachmann, J. & Tietze, L.F. *Acta Crystallogr.* **C44** (1988) 1679-1681.
554. Triazatrimetalabenzole, a new class of inorganic heterocycles. Synthesis and structure of $[Cp^*TaN(Cl)]_3$. Plenio, H., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **100** (1988) 1377-1378; *Angew. Chem. Int. Ed. Engl.* **27** (1988) 1330-1331.

555. Syntheses, structures, and bond relationships in mono- and bicyclic 1,3,2,4,6-dithiatriazines. Maggiulli, R., Mews, R., Stohrer, W.D., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **121** (1988) 1881-1889.
556. Structure of a 1,4-oxazepin-5-one derivative. Antel, J., Sheldrick, G.M., Pfeiffer, T. & Tietze, L.F. *Acta Crystallogr. C* **44** (1988) 1860-1861.
557. Crystal and molecular structure of an indoloquinolizine derivative, $C_{23}H_{28}N_4O_3CH_2Cl_2$. Antel, J., Sheldrick, G.M., Bachmann, J. & Tietze, L.F. *J. Crystallogr. Spectrosc. Res.* **18** (1988) 619-624.
558. Structure of a 2,4-dithiinopyran derivative. Antel, J., Sheldrick, G.M., Schäfer, P. & Tietze, L.F. *Acta Crystallogr. C* **44** (1988) 2037-2039.
559. Ortho-(Benzoyl)phenylarsonic acid. Irmer, E., Sheldrick, G.M., Parmar, S.S. & Saluja, H.K. *Acta Crystallogr. C* **44** (1988) 2024-2025.
560. Structure of a furo[3,4-b]azepine derivative. Antel, J., Sheldrick, G.M., Bratz, M. & Tietze, L.F. *Acta Crystallogr. C* **44** (1988) 2227-2229.
561. Structure of an oxazepinone derivative. Antel, J., Sheldrick, G.M., Pfeiffer, T. & Tietze, L.F. *Acta Crystallogr. C* **44** (1988) 2226-2227.
562. Crystal structure of iodanilic acid. Robl, C. & Sheldrick, G.M. *Z. Kristallogr.* **184** (1988) 295-300.
563. Structure of a D-homoestrone derivative. Antel, J., Sheldrick, G.M., Tietze, L.F. & Wölfling, J. *Acta Crystallogr. C* **44** (1988) 2229-2230.
564. Preparation and structure of bis(triphenylarsoranylidene)ammonium chloride. Roesky, H.W., Bertel, N., Edelmann, F., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B43** (1988) 72-74.
565. Lithium N-(fluorosilyl)pentafluoroanilines. Synthesis and crystal structure. Stalke, D., Klingebiel, U. & Sheldrick, G.M. *Chem. Ber.* **121** (1988) 1457-1459.
566. Chromium, molybdenum, and tungsten carbonyl complexes of phenyldibenzophosphole. Affandi, S., Nelson, J.H., Alcock, N.W., Howarth, O.W., Alyea, E.C. & Sheldrick, G.M. *Organometallics* **7** (1988) 1724-1734.
567. Synthesis and structure of the first cyclodimetallaphosphazenes, $[CIV(OSiMe_3)N_2PPh_2]_2$, an eight-membered planar unsaturated heterocycle. Witt, M., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **100** (1988) 852-853; *Angew. Chem. Int. Ed. Engl.* **27** (1988) 850-851.
568. Preparation and structures of four-membered metal-nitrogen rings. Roesky, H.W., Seseke, U., Noltemeyer, M. & Sheldrick, G.M. *Z. Naturforsch.* **B43** (1988) 1130-1136.
569. A volatile cyclic metallaphosphazene, preparation and x-ray structure of $[(CF_3)_2PN]_2NVC l_2$. Roesky, H.W., Olms, P., Witt, M., Keller, K., Stalke, D., Henkel, T. & Sheldrick, G.M. *Chem. Commun.* (1989) 366-367.

570. Conformational analysis of didemnins. A multidisciplinary approach by means of x-ray, NMR, molecular dynamics, and molecular mechanics techniques. Kessler, H., Will, M., Antel, J., Beck, H. & Sheldrick, G.M. *Helv. Chim. Acta* **72** (1989) 530-555.
571. Inorganic heterocycles containing two or three transition metal atoms. Plenio, H., Witt, M., Edelmann, F., Henkel, T., Noltemeyer, M., Pauer, F., Stalke, D., Sheldrick, G.M. & Roesky, H.W. *Phosphorus, Sulfur Silicon Relat. Elem.* **41** (1989) 335-339.
572. Lithio-di-tert-butylfluorosilylphenylphosphine, in crystal a (SiFLiP)₂-eight membered ring. Stalke, D., Meyer, M., Andrianarison, M., Klingebiel, U. & Sheldrick, G.M. *J. Organomet. Chem.* **366** (1989) C15-C19.
573. Photochemical formation of a stable oxalic acid orthoamide with a propellane structure. Tauer, E., Grellmann, K.H., Noltemeyer, M. & Sheldrick, G.M. *Angew. Chem.* **101** (1989) 350-351; *Angew. Chem. Int. Ed. Engl.* **28** (1989) 338-339.
574. The absolute configuration of the juglomycins. Krupa, J., Lackner, H., Jones, P.G., Schmidt-Bäse, K. & Sheldrick, G.M. *Z. Naturforsch.* **B44** (1989) 345-352.
575. Structure of a hetero-Diels-Alder adduct. Antel, J., Sheldrick, G.M., Brumby, T. & Tietze, L.F. *Acta Crystallogr.* **C45** (1989) 167-168.
576. Structure of a 2,3,4-tri-O-acetyl-β-D-glucopyranosuronic acid derivative. Antel, J., Sheldrick, G.M., Leiting, B. & Tietze, L.F. *Acta Crystallogr.* **C45** (1989) 60-62.
577. 1,8-Diphosphatricyclo[6.2.2.0_{2,7}]dodeca-2(7),3,5-triene. Nieger, M., Egert, E. & Sheldrick, G.M. *Acta Crystallogr.* **C45** (1989) 831-832.
578. SHELX-76, program for crystal structure determination. *Citation classic. Current Contents* **41** (1989) 14.
579. Structure of dicyano-15-norcobyrinic acid heptamethyl ester. Battersby, A.R., Grugurina, I., Raithby, P.R., Egert, E., Harms, K. & Sheldrick, G.M. *Acta Crystallogr.* **C45** (1989) 1589-1593.
580. Structure of a 1,3-diphosphetane derivative. Jones, P.G., Carpenter, G.B. & Sheldrick, G.M. *Acta Crystallogr.* **C45** (1989) 1665-1666.
581. Synthesis and structure of novel polycyclic species from toluene and m-xylene and the dehalogenation product of difluoro(diisopropylamino)borane. Meller, A., Seebold, U., Maringgele, W., Noltemeyer, M. & Sheldrick, G.M. *J. Am. Chem. Soc.* **111** (1989) 8299-8300.
582. Synthesis and crystal structures of three four-membered ring compounds containing PN₂Ti skeletons. Witt, M., Roesky, H.W., Stalke, D., Pauer, F., Henkel, T. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1989) 2173-2177.

583. Structure of a 3,4-dihydro-2H-pyran derivative. Antel, J., Sheldrick, G.M., Hartfiel, U. & Tietze, L.F. *Acta Crystallogr. C* **45** (1989) 1834-1836.
584. Structure of methyl 2-cyano-2-(2-isopropenyl-5-methylcyclohexyl)acetate. Antel, J., Sheldrick, G.M., Beifuss, U. & Tietze, L.F. *Acta Crystallogr. C* **45** (1989) 1833-1834.
585. SHELX. Robinson, W.T. & Sheldrick, G.M. *Crystallogr. Comput.* **4** (1988) 366-377. Edited by Isaacs, N.W. & Taylor, M.R. Oxford University Press: Oxford.
586. Synthesis and crystal structure of lithiated silylphosphides $(\text{Me}_3\text{C})_2\text{SiFP}(\text{Mes})\text{Li}(\text{THF})_3$, $(\text{Me}_3\text{C})_2\text{SiFLi}(\text{TMEDA})\text{P}(\text{Mes})$ and the cyclic silylphosphane $[(\text{Me}_3\text{C})_2\text{SiPMes}]_2$. Andrianarison, M., Klingebiel, U., Stalke, D. & Sheldrick, G.M. *Phosphorus, Sulfur Silicon Relat. Elem.* **46** (1989) 183-196.
- 587 The stereochemistry of bisoxiranes of vitamin D₃ 4-phenyltriazoline-3,5-dione-adducts: x-ray structure analysis of one of their benzoyl derivatives. Reischl, W., Kratky, C., Sheldrick, G.M. & Zbiral, E. *Monatsh. Chem.* **120** (1989) 1165-1173.
588. Preparation of some phosphidoindium compounds, and the crystal structures of $\text{In}(\text{PBU}_2)_3$ and $[\text{Et}_2\text{InPBU}_2]_2$. Alcock, N.W., Degnan, I.A., Wallbridge, M.G.H., Powell, H.R., McPartlin, M. & Sheldrick, G.M. *J. Organomet. Chem.* **361** (1989) C33-C36.
589. Adduct of a five-membered trisulfurdinitrogen dioxide ring with titanium tetrachloride. Roesky, H.W., Schimkowiak, J., Schmidt, H.G., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **123** (1990) 1345-1346.
590. Structure of a benzopyranopyranooxazepinone. Antel, J., Sheldrick, G.M., Pfeiffer, T. & Tietze, L.F. *Acta Crystallogr. C* **46** (1990) 158-159.
591. Synthesis of (diphenylphosphinothioyl)methyldiphenylphosphoniomethanide complexes of gold and silver. X-ray structure of $[\text{Au}(\text{C}_6\text{F}_5)\{\text{SPh}_2\text{PCH}[\text{Au}(\text{C}_6\text{F}_5)]\text{PPh}_2\text{Me}]$. Uson, R., Laguna, A., Laguna, M., Nieves F.M., Lazaro, I., Concepcion G.M., Jones, P.G., Reihls, C. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1990) 333-338.
592. 9-Diisopropylamino-9-borabicyclo[4.2.1]nona-2,4,7-triene from the reaction of cyclooctatetraene with sodium-potassium alloy and dihalogeno(diisopropylamino)boranes. Maringgele, W., Stalke, D., Heine, A., Meller, A. & Sheldrick, G. M. *Chem. Ber.* **123** (1990) 489-490.
593. N,N'-dilithiobis(alkylamino)phenylboranes as starting materials for four-membered metallacycles. Fest, D., Habben, C.D., Meller, A., Sheldrick, G.M., Stalke, D. & Pauer, F. *Chem. Ber.* **123** (1990) 703-706.
594. An uncomplexed 1,2,3-triborolane derivative. Meller, A., Bromm, D., Maringgele, W., Heine, A., Stalke, D. & Sheldrick, G.M. *Chem. Ber.* **123** (1990) 293-294.
595. Alkali salts of octamethylcyclotetrasilazane - synthesis and crystal structures. Dippel, K., Klingebiel, U., Kottke, T., Pauer, F., Sheldrick, G.M. & Stalke, D. *Chem. Ber.* **123** (1990) 237-241.

596. Ring contractions of octamethylcyclotetrasilazanes to silyl-substituted cyclotrisilazanes. Dippel, K., Klingebiel, U., Pauer, F., Sheldrick, G.M. & Stalke, D. *Chem. Ber.* **123** (1990) 779-782.

597. Conformational analysis of N-benzylpyridinium bromide: a comparison of crystal structure data with results of semiempirical calculations (MINDO/3, MNDO, AM1, and PM3). Anders, E., Tropsch, J.G., Irmer, E. & Sheldrick, G.M. *Chem. Ber.* **123** (1990) 321-325.

598. 2,5-Dihydroboroles and 1,3-dihydro-1,3-diborettes from 1,3-dienes and alkynes via reaction with dichloro(diisopropylamino)borane and alkali metals. Bromm, D., Stalke, D., Heine, A., Meller, A. & Sheldrick, G.M. *J. Organomet. Chem.* **386** (1990) 1-7.

599. Synthesis of enantiomerically pure heterosteroids by intramolecular hetero-Diels-Alder reaction. Tietze, L.F., Beifuss, U., Lökös, M., Rischer, M., Sheldrick, G.M. & Göhrt, A. *Angew. Chem.* **102** (1990) 545-547; *Angew. Chem. Int. Ed. Engl.* **29** (1990) 527-529.

600. Phase annealing in SHELX-90: direct methods for larger structures. Sheldrick, G.M. *Acta Crystallogr. A* **46** (1990) 467-473.

601. Preparation of the first thione S-imides with perfluoromethyl groups by the use of sodium hexamethyldisilazane as a mild dehydrohalogenation reagent. May, A., Roesky, H.W., Stalke, D., Pauer, F. & Sheldrick, G.M. *Chem. Ber.* **123** (1990) 1475-1478.

602. Syntheses, halo-exchange reactions, and crystal structures of functional silylamines. Schütte, S., Pauer, F., Klingebiel, U., Stalke, D. & Sheldrick, G. M. *Z. Anorg. Allg. Chem.* **582** (1990) 151-161.

603. Structure of an oxazolphenyloxazole. Beck, H., Sheldrick, G.M., Hege, J. & Lüttke, W. *Acta Crystallogr. C* **46** (1990) 1340-1342.

604. 1,4,6-Tris(diisopropylamino)-1,4,6-triboraspiro[4.4]nona-2,8-diene from the reaction of benzene with subvalent boron species. Meller, A., Bromm, D., Maringgele, W., Heine, A., Stalke, D. & Sheldrick, G.M. *Chem. Commun.* (1990) 741-742.

605. Synthesis and x-ray crystal structure of a tricyclic lead-nitrogen-boron heterocycle. Heine, A., Fest, D., Stalke, D., Habben, C.D., Meller, A. & Sheldrick, G.M. *Chem. Commun.* (1990) 742-743.

606. Unexpected nitrogen-oxygen exchange reactions in cyclic metallaphosphazenes: synthesis and x-ray crystal structures of dichloro(1,3-dioxo-1,1,3,3-tetraphenyldi- λ 5-phosphazane-O,O')dioxo-, chlorobis(N-diphenylphosphoryl-P,P-diphenylphosphinimidato-O,O)oxo-, and bis(N-diphenylphosphoryl-P,P-diphenylphosphinimidato-O,O')dioxomolybdenum. Rietzel, M., Roesky, H.W., Katti, K.V., Schmidt, H.G., Herbst-Irmer, R., Noltemeyer, M., Sheldrick, G.M., Symons, M.C.R. & Abu-Raqabah, A. *J. Chem. Soc., Dalton Trans.* (1990) 2387-2392.

607. Preparation and structural characterization of the bis[bis(trimethylsilyl)amido]chalcogenides of selenium and tellurium. Björgvinsson, M., Roesky, H.W., Pauer, F., Stalke, D. & Sheldrick, G.M. *Inorg. Chem.* **29** (1990) 5140-5143.

608. Fluorosilyl and fluoroboryl substituted cyclotetrasilazanes. Synthesis and crystal structures. Dippel, K., Klingebiel, U., Kottke, T., Pauer, F., Sheldrick, G.M. & Stalke, D. *Z. Anorg. Allg. Chem.* **584** (1990) 87-104.
609. Cyclic diguanylic acid behaves as a host molecule for planar intercalators. Liaw, Y.C., Gao, Y.G., Robinson, H., Sheldrick, G.M., Sliedregt, L.A.J.M., Van der Marel, G.A., Van Boom, J.H. & Wang, A.H.J. *FEBS Lett.* **264** (1990) 223-227.
610. Synthesis and properties of 1,2,4,3-thiadiazaboretidines. Crystal structure of 2,4-di-tert-butyl-3-phenyl-1,2,4,3-thiadiazaboretidine. Habben, C.D., Heine, A., Sheldrick, G.M., Stalke, D., Bühl, M. & Schleyer, P. von R. *Chem. Ber.* **124** (1991) 47-50.
611. (Perfluoralkyl)(dimethylamino)sulfonium hexafluoroarsenate. Erhart, M., Mews, R., Pauer, F., Stalke, D. & Sheldrick, G.M. *Chem. Ber.* **124** (1991) 31-38.
612. The preparation and crystal structures of sodium and potassium pentamethylcyclopentadienyl pyridine solvates. Rabe, G., Roesky, H.W., Stalke, D., Pauer, F. & Sheldrick, G.M. *J. Organomet. Chem.* **403** (1991) 11-19.
613. Sterically crowded aryl bismuth compounds: synthesis and characterization of bis[2,4,6-tris(trifluoromethyl)phenyl] bismuth chloride and tris[2,4,6-tris(trifluoromethyl)phenyl] bismuth. Whitmire, K.H., Labahn, D., Roesky, H.W., Noltemeyer, M. & Sheldrick, G.M. *J. Organomet. Chem.* **402** (1991) 55-66.
614. Carbon-fluorine bond activation in the reaction of bismuth trichloride with sodium 2,4,6-tris(trifluoromethyl)phenoxide. Whitmire, Kenton H., Roesky, H.W., Brooker, S. & Sheldrick, G.M. *J. Organomet. Chem.* **402** (1991) C4-C7.
615. Synthesis and structure of $\text{Ph}_3\text{P}=\text{NRe}[\text{NC}_6\text{H}_3(\text{CHMe}_2)_2]_3$. An aza-rhenium(VII) compound. Roesky, H.W., Hesse, D., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **124** (1991) 757-759.
616. Comparison of the x-ray crystal structure of the sodium and potassium 2,4,6-tris(trifluoromethyl)phenoxides (RO-) and 2,4,6-tris(trifluoromethyl)benzenethiolates (RS-), $[\text{Na}(\text{OR})(\text{thf})_2]_2$, $[\text{K}(\text{OR})(\text{thf})_2(\mu\text{-thf})]_2$, $[\text{Na}(\text{SR})(\text{thf})_2 \cdot 0.25\text{thf}]_x$ and $[\text{K}(\text{SR})(\text{thf})]_x$ (thf = tetrahydrofuran). Brooker, S., Edelmann, F.T., Kottke, T., Roesky, H.W., Sheldrick, G.M., Stalke, D. & Whitmire, K.H. *Chem. Commun.* (1991) 144-146.
617. A tricyclic ring system of six carbon and five boron atoms from monoalkylbenzene and five formal borene units. Maringgele, W., Seebold, U., Heine, A., Stalke, D., Noltemeyer, M., Sheldrick, G.M. & Meller, A. *Organometallics* **10** (1991) 2097-2098.
618. Double borylation of benzene derivatives with (diisoalkylamino)boradiyl units. Meller, A., Böker, C., Seebold, U., Bromm, D., Maringgele, W., Heine, A., Herbst-Irmer, R., Pohl, E., Stalke, D., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **124** (1991) 1907-1912.
619. Four- and eight-membered cyclic phosphazene derivatives of zirconium, titanium and vanadium. Crystal structures of the complexes $[\text{ZrCl}_3(\text{Me}_3\text{SiNPPH}_2\text{NSiMe}_3\text{-N,N}')]\cdot\text{MeCN}$ and

[{TiCl₂(OPPh₂N)}₂]₂·4MeCN. Witt, M., Stalke, D., Henkel, T., Roesky, H.W. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1991) 663-667.

620. Preparation and structure of thallium(I) 2,4,6-tris(trifluoromethyl)thiophenolate, a compound with a folded polymeric structure. Labahn, D., Pohl, E., Herbst-Irmer, R., Stalke, D., Roesky, H.W. & Sheldrick, G.M. *Chem. Ber.* **124** (1991) 1127-1129.

621. Synthesis and x-ray crystal structure of germainines. Meller, A., Ossig, G., Maringgele, W., Stalke, D., Herbst-Irmer, R., Freitag, S. & Sheldrick, G.M. *Chem. Commun.* (1991) 1123-1124.

622. Synthesis and molecular structure of the solvent-free [LiN(SiMe₃)(2,6-iso-Pr₂C₆H₃)₂]₂ dimer. Kennepohl, D.K., Brooker, S., Sheldrick, G.M. & Roesky, H.W. *Chem. Ber.* **124** (1991) 2223-2225.

623. Isocyanatosulfonium salts. Erhart, M., Mews, R., Pauer, F., Stalke, D. & Sheldrick, G.M. *Chem. Ber.* **124** (1991) 2411-2416.

624. 1,3-Bis[tert-butyl(di-tert-butylfluorosilyl)amino]trisulfane - a compound with FSiN₃SSNSiF helix. Klingebiel, U., Pauer, F., Sheldrick, G.M. & Stalke, D. *Chem. Ber.* **124** (1991) 2651-2653.

625. Synthesis and structure of the first tellurium(II) radical cations. Björgvinsson, M., Heinze, T., Roesky, H.W., Pauer, F., Stalke, D. & Sheldrick, G.M. *Angew. Chem.* **103** (1991) 1671-1672; *Angew. Chem. Int. Ed. Engl.* **30** (1991) 1677-1678.

626. Heavy Atom Location using SHELXS-90. Sheldrick, G.M. *Isomorphous Replacement and Anomalous Scattering: CCP4 Study Weekend*, Eds. W. Wolf, P.R. Evans & A.G.W. Leslie, Daresbury 1991.

627. [3 + 1] Cycloaddition: reaction of dichlorogermylene with hexafluoro-2-propanethione 1-adamantylimide. May, A., Roesky, H.W., Herbst-Irmer, R., Freitag, S. & Sheldrick, G.M. *Organometallics* **11** (1992) 15-16.

628. Main-group chemistry of the 2,4,6-tris(trifluoromethyl)phenyl substituent: x-ray crystal structures of [2,4,6-(CF₃)₃C₆H₂]₂Zn, [2,4,6-(CF₃)₃C₆H₂]₂Cd(MeCN) and [2,4,6-(CF₃)₃C₆H₃]₂Hg. Brooker, S., Bertel, N., Stalke, D., Noltemeyer, M., Roesky, H.W., Sheldrick, G.M. & Edlmann, F.T. *Organometallics* **11** (1992) 192-195.

629. Reactions of germynes with acid azides. Meller, A., Ossig, G., Maringgele, W., Noltemeyer, M., Stalke, D., Herbst-Irmer, R., Freitag, S. & Sheldrick, G.M. *Z. Naturforsch.* **B47** (1992) 162-170.

630. Manganese(II) amides: the synthesis and x-ray crystal structures of Mn[N(SiMe₃)(2,6-iso-Pr₂C₆H₃)₂][THF] and Mn₃[N(H)2,6-iso-Pr₂C₆H₃]₄[N(SiMe₃)₂]₂. Kennepohl, D.K., Brooker, S., Sheldrick, G.M. & Roesky, H.W. *Z. Naturforsch.* **B47** (1992) 9-16.

631. Structural investigations of diaryl dichalcogenides: the molecular structures of [2,4,6-(CF₃)₃C₆H₂S]₂, [2,4,6-Me₃C₆H₂Te]₂ and [2-Me2N-4,6-(CF₃)₂C₆H₂Te]₂. Edlmann, A., Brooker, S., Bertel, N., Noltemeyer, M., Roesky, H.W., Sheldrick, G.M. & Edlmann, F.T. *Z. Naturforsch.* **B47** (1992) 305-309.

632. Synthesis and structure of $\text{SeSb}_2\text{Cl}_2(\text{NCMe}_3)_4$ - a compound with a selenium atom coordinated by three nitrogen atoms. Björgvinsson, M., Roesky, H.W., Pauer, F. & Sheldrick, G.M. *Chem. Ber.* **125** (1992) 767-769.
633. Supermesityl stabilized iminoboranes. Luthin, W., Elter, G., Heine, A., Stalke, D., Sheldrick, G.M. & Meller, A. *Z. Anorg. Allg. Chem.* **608** (1992) 147-152.
634. Structure and reactivity of a stannaketenimine. Grützmacher, H., Freitag, S., Herbst-Irmer, R. & Sheldrick, G.M. *Angew. Chem.* **104** (1992) 459-461; *Angew. Chem. Int. Ed. Engl.* **31** (1992) 437-438.
635. Synthesis and structure of CpAlCl_2 compounds with sterically demanding substituents (Cp = Me_5C_5 , EtMe_4C_5). Koch, H.J., Schulz, S., Roesky, H.W., Noltemeyer, M., Schmidt, H.G., Heine, A., Herbst-Irmer, R., Stalke, D. & Sheldrick, G.M. *Chem. Ber.* **125** (1992) 1107-1109.
636. Reactions of tellurium halides with sulfur N,N'-bis(trimethylsilyl)diimide-preparation of the first fluorotellurium nitride. Münzenberg, J., Roesky, H.W., Besser, S., Herbst-Irmer, R. & Sheldrick, G.M. *Inorg. Chem.* **31** (1992) 2986-2987.
637. Tutorial on automated Patterson interpretation to find heavy atoms. Sheldrick, G.M. *Crystallogr. Comput.* **5** (1992) 145-157.
638. Preparation and structures of monomeric bis(thiophenolato)metal(II) complexes. Labahn, D., Brooker, S., Sheldrick, G.M. & Roesky, H.W. *Z. Anorg. Allg. Chem.* **610** (1992) 163-168.
639. Syntheses and properties of 1,2,7,3,6-thiadiazadiborepines. Crystal structure of 2,7-di-tert-butyl-3,6-dimethyl-3,6-dihydrobenzo-1,2,7,3,6-thiadiazadiborepine. Habben, C.D., Heine, A., Stalke, D. & Sheldrick, G.M. *Z. Naturforsch.* **B47** (1992) 697-701.
640. Preparation and crystal structure of bis(adamantylphosphido)tetrakis(trimethylsilylmethyl)-diindium. Dembowski, U., Roesky, H.W., Pohl, E., Herbst-Irmer, R., Stalke, D. & Sheldrick, G.M. *Z. Anorg. Allg. Chem.* **611** (1992) 92-94.
641. Polycyclic compounds from 2,5-norbornadiene, isopropylbenzene, and dehalogenation products of dihalogeno(diorganyl-amino)boranes. Reaction of bis(diisopropylamino)phenylborane with Na/K alloy and difluoro(diisopropylamino)borane. Maringgele, W., Seebold, U., Meller, A., Dielkus, S., Pohl, E., Herbst-Irmer, R. & Sheldrick, G.M. *Chem. Ber.* **125** (1992) 1559-1564.
642. Dehalogenation of aminodihaloboranes by Na/K alloy in the presence of naphthalene, bis(trimethylsilyl)butadiyne, and 2,5-dimethyl-2,4-hexadiene. Maringgele, W., Knop, H., Bromm, D., Meller, A., Dielkus, S., Herbst-Irmer, R. & Sheldrick, G.M. *Chem. Ber.* **125** (1992) 1807-1813.
643. Preparation and structure characterization of the bis[tert-butyl(trimethylsilyl)amino]chalcogenides of selenium and tellurium. Björgvinsson, M., Roesky, H.W., Pauer, F., Stalke, D. & Sheldrick, G.M. *Eur. J. Solid State Inorg. Chem.* **29** (1992) 759-776.

644. Preparation and x-ray structures of gold(I) complexes with some fluoro-phosphorus(III) ligands. Lin, Y., Jones, P.G., Schmutzler, R. & Sheldrick, G.M. *Eur. J. Solid State Inorg. Chem.* **29** (1992) 887-898.
645. Chelation of fluoride ion by $F_2C(SF_3)_2$: formation of a four-membered CS_2F heterocycle with a symmetrically bridging fluoride. Viets, D., Heilemann, W., Waterfeld, A., Mews, R., Besser, S., Herbst-Irmer, R., Sheldrick, G.M. & Stohrer, W.D. *Chem. Commun.* (1992) 1017-1019.
646. Acenaphtho[1,2-a]acenaphthylene at 178 K. Jones, P.G., Bubenitschek, P., Sheldrick, G.M. & Dyker, G. *Acta Crystallogr. C* **48** (1992) 1633-1635.
647. Synthesis and structure of eight-membered titanium-containing siloxane rings. Liu, F.-Q., Schmidt, H.G., Noltemeyer, M., Freire-Erdbrügger, C., Sheldrick, G.M. & Roesky, H.W. *Z. Naturforsch. B* **47** (1992) 1085-1090.
648. Synthesis and crystal structure of 1,3-di-tert-butyl-4,4-dimethyl-2-(pentafluorophenyl)-4,2-stannaboracyclobutane. Habben, C.D., Heine, A., Sheldrick, G.M. & Stalke, D. *Z. Naturforsch. B* **47** (1992) 1367-1369.
649. Model reactions to anchor molybdenum and vanadium oxides on silica-oxygen surfaces. Gosink, H.J., Roesky, H.W., Noltemeyer, M., Schmidt, H.G., Freire-Erdbrügger, C. & Sheldrick, G.M. *Chem. Ber.* **126** (1993) 279-283.
650. Synthesis and characterization of silazoxy metallacycles Elias, A.J., Roesky, H.W., Robinson, W.T. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1993) 495-500.
651. Structural characterization of two modifications of tris(tetrahydrofuran)(tris(trimethylsilyl)silyl)lithium: a compound with a $Si^{29}-Li^7$ NMR coupling. Heine, A., Herbst-Irmer, R., Sheldrick, G.M. & Stalke, D. *Inorg. Chem.* **32** (1993) 2694-2698.
652. The application of direct methods and Patterson interpretation to high-resolution native protein data. Sheldrick, G.M., Dauter, Z., Wilson, K.S., Hope, H. & Sieker, L.C. *Acta Crystallogr. D* **49** (1993) 18-23.
653. Structure of 4,6-bis(trifluoromethyl)-2,2-bis[2,4,6-tris(trifluoromethyl)phenylthio]-1-thiabenzocyclobutene. Pohl, E., Herbst-Irmer, R. & Sheldrick, G.M. *Acta Crystallogr. C* **49** (1993) 1026-1028.
654. Synthesis and structure of a stable selenodiimide complex. Gindl, J., Björgvinsson, M., Roesky, H.W., Freire-Erdbrügger, C. & Sheldrick, G.M. *J. Chem. Soc., Dalton Trans.* (1993) 811-812.
655. Structure of bis- μ -[(trimethylsilyl)methanolato-O]-bis[bis(trimethylsilylmethyl)gallium] and bis- μ -[(trimethylsilyl)methanolato-O]-bis[bis(trimethylsilylmethyl)indium]. Dembowski, U., Pape, T., Herbst-Irmer, R., Pohl, E., Roesky, H.W. & Sheldrick, G.M. *Acta Crystallogr. C* **49** (1993) 1309-1311.
656. New contributions to the chemistry of manganese: syntheses and structures of two monomeric manganese(II) compounds and a hexanuclear manganese(II/III) complex. Köhler, K., Roesky, H.W.,

Noltemeyer, M., Schmidt, H.G., Freire-Erdbrügger, C. & Sheldrick, G.M. *Chem. Ber.* **126** (1993) 921-926.

657. Structure determination of a product from the reaction of tris(trimethylsilyl)silyllithium with acetone. Oehme, H., Wustrack, R., Heine, A., Sheldrick, G.M. & Stalke, D. *J. Organomet. Chem.* **452** (1993) 33-39.

658. Structures of amino(triphenyl)phosphonium bromide and amino(triphenyl)phosphonium hexachloroantimonate. Pohl, E., Gosink, H.J., Herbst-Irmer, R., Noltemeyer, M., Roesky, H.W. & Sheldrick, G.M. *Acta Crystallogr. C* **49** (1993) 1280-1283.

659. Structure of potassium silanolate at 153 K. Pauer, F. & Sheldrick, G.M. *Acta Crystallogr. C* **49** (1993) 1283-1284.

660. Direct Methods of Phasing in Macromolecular Crystallography. Hauptman, H., Mukherjee, M., Woolfson, M.M., Sheldrick, G.M., Bruenger, A.T., Bricogne, G., Prince, E., Sjoelin, L. & McLachlan, A.D. (1993). Munksgard: Copenhagen, Denmark.

661. Chlorothiazines. Chen, S.J., Behrens, U., Fischer, E., Mews, R., Pauer, F., Sheldrick, G.M., Stalke, D. & Stohrer, W.D. *Chem. Ber.* **126** (1993) 2601-2607.

662. Di-tert-butylmethylsilanol, -silanolate and -siloxane. Schütte, S., Freire-Erdbrügger, C., Klingebiel, U. & Sheldrick, G.M. *Phosphorus, Sulfur Silicon Relat. Elem.* **78** (1993) 75-81.

663. Reactions of a free stannimine and of base-stabilized stannylenes. Ossig, G., Meller, A., Freitag, S., Herbst-Irmer, R. & Sheldrick, G.M. *Chem. Ber.* **126** (1993) 2247-2253.

664. Structure of 2,4,6-tri(tert-butyl)aniline at 153 K. Pohl, E., Herbst-Irmer, R., Köhler, K., Roesky, H.W. & Sheldrick, G.M. *Acta Crystallogr. C* **49** (1993) 2141-2143.

665. Structure of (\pm)-1 β -tert-butoxy-3 α ,4 β ,5,6,7,7a-hexahydro-7a β -methyl-5-oxo-4 α -indancarboxylic acid methyl ester at 153 K. Pohl, E., Herbst-Irmer, R., Sheldrick, G.M., Van Hommelen, S. & Groth, U. *Acta Crystallogr. C* **49** (1993) 1654-1655.

666. A simple synthesis of [(Cp*Al)₄] and its conversion to the heterocubanes [(Cp*AlSe)₄] and [(Cp*AlTe)₄] (Cp*= η^5 -C₅(CH₃)₅). Schulz, S., Roesky, H.W., Koch, H.J., Sheldrick, G.M., Stalke, D. & Kuhn, A. *Angew. Chem.* **105** (1993) 1828-1830; *Angew. Chem. Int. Ed. Engl.* **32** (1993) 1729-1731.

667. Juglorubin. Lessmann, H., Krupa, J., Lackner, H., Schmidt-Bäse, K. & Sheldrick, G.M. *Z. Naturforsch.* **B48** (1993) 672-682.

668. Crystal structure of N-(3,5-bis(trifluoromethyl)-phenyl)-tert-butylsulfonamide, C₁₂H₁₃F₆NOS. Pohl, E., Herbst-Irmer, R. & Sheldrick, G.M. *Z. Kristallogr.* **207** (1993) 256-258.

669. The Solution of Large Small-Molecule Structures and Small Macromolecules. Sheldrick, G.M. *Crystallographic Computing*, 6 Ed. H.D. Flack, L. Parkanyi & K. Simon IUCr/Oxford U. Press (1993) 100-122.

670. Refinement of Large Small-Molecule Structures Using SHELXL-92. Sheldrick, G.M. *Crystallographic Computing*, 6 Ed. H.D. Flack, L. Parkanyi & K. Simon IUCr/Oxford U. Press (1993) 111-122.
671. $[\text{Li}\{\text{N}(\text{Me}_3\text{SiNPPH}_2)_2\}_2 \cdot 2.5\text{C}_7\text{H}_8$. Van der Maelen Uría, J.F., Pandey, S.K., Roesky, H.W. & Sheldrick, G.M. *Acta Cryst. C* **50** (1994) 671-674.
672. $\{\text{Hexakis}[2,4,6\text{-tris}(\text{trifluoromethyl})\text{phenyl}]\text{-cyclo-tristannoxane}\}_2$. Van der Maelen Uría, J.F., Belay, M., Edelmann, F.T. & Sheldrick, G.M. *Acta Cryst. C* **50** (1994) 403-407.
673. Structure of *cyclo*-(L-Threonyl-D-valyl-L-prolyl-sarcosyl-N-methyl-L-valyl-O_{Thr}) at 153 K. Pohl, E., Sheldrick, G.M., Fischer, S. & Lackner, H. *Acta Cryst. C* **50** (1994) 100-103.
674. Synthesis and Structure of the first dimeric Iminoalanes with a Al_2N_2 -Heterocyclus. Schulz, S., Häming, L., Herbst-Irmer, R., Roesky, H.W., & Sheldrick, G.M. *Angew. Chem.* **106** (1994) 1052-1054; *Angew. Chem. Int. Ed. Engl.* **33** (1994) 969-970.
675. First synthesis of a macrocycle from 3,6-diformylpyridazine: x-ray crystal structure of $[\text{Pb}_2(4+4)](\text{ClO}_4)_4$. Brooker, S., Kelly, R.J. & Sheldrick, G.M. *J. Chem. Soc., Chem. Commun.* **4** (1994) 487-488.
676. New Cyclophosphazenes with Metals of the III. Main Group as Building Blocks. Hasselbring, R., Roesky, H.W., Heine, A., Stalke, D. & Sheldrick, G.M. *Z. Naturforsch.* **49b** (1994) 43-49.
677. Dilithium-*N,N'*-bis(trimethylsilyl)hydrazide and a hydrolysis product side-on and end-on at N_2^{2-} - and O_2^{2-} -bound Li cations. Drost, C., Jäger, C., Freitag, S., Klingebiel, U., Noltemeyer, M. & Sheldrick, G.M. *Chem. Ber.* **127** (1994) 845-847.
678. Preparation and Structure of 2,3-Bis[2,4,6-tris(trifluoromethyl)phenyl]-1,2,3-selenadiphosphirane. Voelker, H., Pieper, U., Roesky, H.W. & Sheldrick, G.M. *Z. Naturforsch.* **49b** (1994) 255-257.
679. *Ab initio* determination of the crystal structure of cytochrome c_6 and comparison with plastocyanin. Frazão, C.; Soares, C.M.; Carrondo, M.A., Pohl, E., Dauter, Z., Wilson, K.S.; Hervas, M., Navarro, J.A., De la Rosa, M.A. & Sheldrick, G.M. *Structure* **3** (11) (1995) 1159-69.
680. Structure solution by iterative peaklist optimization and tangent expansion in space group $P1$. Sheldrick, G.M. & Gould, R.O. *Acta Crystallogr.* **B51** (1995) 423-31.
681. Crystal structures of two modifications of $[\text{3},\text{O-didehydro-MeBmt}^1, \text{Val}^2]\text{cyclosporin}$ and comparison of three different X-ray data sets. Pohl, E., Herbst-Irmer, R., Sheldrick, G.M., Dauter, Z., Wilson, K.S., Bölsterli, J.J., Bollinger, P., Kallen, J. & Walkinshaw, M.D. *Helv. Chim. Acta* **78** (1995) 355-66.
682. Structure of 9-deoxo-9a-*N*-[*N'*-(4-pyridyl)-carbamoyl]-9a-aza-9a-homoerythromycin A and conformational analysis of analogous 9a-aza 15-membered azalides in the solid state. Sheldrick,

G. M., Kojic-Prodic, B., Banic, Z., Kobrehel, G., Kujundzic, N. *Acta Crystallogr.* **B51** (1995) 358-66.

683. Structure of ureido-balhimycin. Sheldrick, G.M., Paulus, E., Vertesy, L. & Hahn, F. *Acta Crystallogr.* **B51** (1995) 89-98.

684. Novel coordination of cyclopentadienyl ring in heterotrimetallic organoyttrium complex $\text{Li}[\text{Cp}_2\text{Y}(\text{FcN})_2]$ (FcN = 2-dimethylaminomethylferrocenyl). Jacob, K., Schäfer, M., Steiner, A., Sheldrick, G.M. & Edelmann, F.T. *J. Organomet. Chem.* **487** (1995) C18-C20.

685. Cytochrome c_6 from the green alga *Monoraphidium braunii*. Crystallization and preliminary diffraction studies. Frazão, C., Dias, J.M., Matias, P.M., Romao, M.J., Carrondo, M.A., Hervas, M., Navarro, J.A., De la Rosa, M. & Sheldrick, G.M. *Acta Crystallogr.* **D51** (1995) 232-234.

686. Comparison of different x-ray data-collection system using the crystal structure of octreotide. Pohl, E., Heine, A., Sheldrick, G.M., Dauter, Z., Schneider, T.R., Wilson, K.S. & Kallen, J. *Acta Crystallogr.* **D51** (1995) 60-68.

687. Structure of octreotide, a somatostatin analog. Pohl, E., Heine, A., Sheldrick, G.M., Dauter, Z., Wilson, K.S., Kallen, J., Huber, W. & Pfäffli, P.J. *Acta Crystallogr.* **D51** (1995) 48-59.

688. The Bicyclic Structure of a Novel TMEDA-Solvated Lithium Chloride Tetramer $[(\text{LiCl})_4 \cdot 3.5\text{TMEDA}]_2$: X-ray Structural Analysis and MO Investigations. Hoffmann, D., Dorigo, A., Schleyer, P.v.R., Reif, H., Stalke, D., Sheldrick, G.M., Weiss, E. & Geissler, M. *Inorg. Chem.* **34** (1995) 262-269.

689. The 2:1 adduct of an α -L-altropyranose derivative with hexafluoro-2,6-dihydroxy-2,6-bis(trifluoromethyl)-4-heptanone at 173K. Kopf, J., Sheldrick, G.M., Reinke, H., Rentsch, D. & Miethchen, R. *Acta Crystallogr.* **C51** (1995) 1198-1201.

690. Structures of Quinoxaline Antibiotics. Sheldrick, G.M., Heine, A., Schmidt-Bäse, K., Pohl, E., Jones, P.G., Paulus, E. & Waring, M.J. *Acta Crystallogr.* **B51** (1995) 987-999.

691. Crystal Structure of Cytochrome c_6 from the green alga *Monoraphidium braunii*. Comparison with plastocyanin. de la Rosa, M.A., Frazao, C., Soares, C.M., Carrondo, M.A., Pohl, E., Dauter, Z., Wilson, K.S., Hervás, M., Navarro, J.A. & Sheldrick, G.M. *Photosynthesis: from Light to Biosphere*, Vol. 2, ed. P. Mathis, Kluwer Academic Publishers (1995), 539-542.

692. Static and dynamic disorder in the refinement process of large organometallic compounds: strategies for modelling. Van der Maelen, J.F. & Sheldrick, G.M.. *Anales de Química Int. Ed.* **92** (1996) 7-12.

693. Crystal and molecular structure of didemnin A, an antiviral depsipeptide. Hossain, M.B., Van der Helm, D., Antel, J., Sheldrick, G.M., Weinheimer, A.J. & Sanduja, S.K. *Int. J. Peptide Protein Res.* **47** (1996) 20-27.

694. Hepes. Wouters, J., Häming, L. & Sheldrick, G.M. *Acta Crystallogr.* **C52** (1996) 1687-1688.

695. High-resolution Structure Refinement. Sheldrick, G.M., *Macromolecular Crystallography Computing School*, Eds. P. Bourne & K. Watenpaugh, IUCr 1996.
696. SHELX for Macromolecules. Sheldrick, G.M., *Macromolecular Crystallography Computing School*, Eds. P. Bourne & K. Watenpaugh, IUCr 1996.
697. Crystal Structure and Packing of Isocyclosporin A. Pohl, E., Sheldrick, G.M., Bölsterli, J.J., Kallen, J., Traber, R. & Walkinshaw, M.D. *Helv. Chim. Acta* **79** (1996) 1635-42.
698. The Molecular and Crystal Structure of the Glycopeptide A-40926 Aglycone. Schäfer, M., Pohl, E., Schmidt-Bäse, K., Sheldrick, G.M., Hermann, R., Malabarba, A., Nebuloni, M & Pelizzi, G. *Helv. Chim. Acta* **79** (1996) 1916-1924.
699. Least-squares Refinement of Macromolecules: Estimated Standard Deviations, NCS Restraints and Factors Affecting Convergence. Sheldrick, G.M. *Macromolecular Refinement: CCP4 Study Weekend*, Eds. E. Dodson, M. Moore, A. Ralph & S. Bailey, 1996.
700. Crystal structure of vancomycin. Schäfer, M., Schneider, T.R. & Sheldrick, G.M. *Structure* **4** (1996) 1509-1515.
701. Patterson Superposition and *ab Initio* Phasing. Sheldrick, G.M. *Methods in Enzymology* **276** (Macromolecular Crystallography Part A, Academic Press, Orlando, Florida, Eds. C.W. Carter & R.M. Sweet)(1997) 628-641.
702. The bi-loop, a new general four-stranded DNA motif. Salisbury, S.A., Wilson, S.E., Powell, H.R., Kennard, O., Lubini, P., Sheldrick, G.M., Escaja, N., Alazzouzi, E.M., Grandas, A. & Pedroso, E. *Proc. Natl. Acad. Sci. USA* **94** (1997) 5515-5518.
703. SHELXL: High-Resolution Refinement. Sheldrick, G.M. & Schneider, T.R. *Methods in Enzymology* **277** (Macromolecular Crystallography Part B, Academic Press, Orlando, Florida, Eds. C.W. Carter & R.M. Sweet)(1997) 319-343.
704. X-ray crystallography reveals stringent conservation of protein fold after removal of the only disulfide bridge from a stabilized immunoglobulin variable domain. Usón, I., Bes, M.T., Sheldrick, G.M. Schneider, T.R., Hartsch, T. & Fritz, H.-J. *Folding & Design* **2** (1997) 357-361.
705. Direct Methods based on real/reciprocal space iteration. Sheldrick, G.M. *Recent Advances in Phasing. CCP4 Study Weekend*, Eds. K.S. Wilson, G. Davies, A.W. Ashton & S. Bailey, 1997.
706. Crystal Structure Refinement Incorporating Chemical Information. Sheldrick, G.M. *Electron Crystallography Series E: Applied Sciences – Vol. 347*, Eds. D.L. Dorset, S. Hovmöller & X. Zou, (1997) 219-230.
707. X-ray Structure of Tyr-D-Tic-Phe-Phe-NH₂(D-TIPP-NH₂) a highly potent μ -receptor selective opinoid agonist. Flippen-Anderson, J.L., Deschamps, J.R., George, C., Reddy, P.A., Lewin, A.H., Brine, G.A., Sheldrick, G.M. & Nikiforovich, C. *J. Peptide Res.* **49** (1997) 384-393.

708. SHELX: Applications to Macromolecules. Sheldrick, G.M. *Direct Methods for Solving Macromolecular Structures*, ed. S. Fortier, Kluwer Academic Publishers, (1998) 401-411.
709. Location of Heavy Atoms by Automated Patterson Interpretation. Sheldrick, G.M. *Direct Methods for Solving Macromolecular Structures*, ed. S. Fortier, Kluwer Academic Publishers, (1998) 131-141.
710. Crystal structure refinement incorporating chemical information. Sheldrick, G.M. *Direct Methods for Solving Macromolecular Structures*, ed. S. Fortier, Kluwer Academic Publishers (1998) 119-130;
711. Structure of Balhimycin and its Complex with Solvent Molecules. Schäfer, M., Sheldrick, G.M. Schneider, T.R. & Vértesy, L. *Acta Crystallogr. D***54** (1998) 175-183.
712. Refinement of Twinned Structures with SHELXL97. Herbst-Irmer, R. & Sheldrick, G.M. *Acta Crystallogr. B***54** (1998) 443-449.
713. Novel Organic-Soluble Molecular Titanophosphonates with Cage Structures Comparable to Titanium-Containing Silicates. Walawalkar, M.G., Horchler, S., Dietrich, S., Chakraborty, D., Roesky, H.W., Schäfer, M., Schmidt, H.-G., Sheldrick, G.M. & Murugavel, R. *Organometallics* **17** (1998) 2865-2868.
714. Crystal Structures of Actinomycin D and Actinomycin Z₃. Schäfer, M., Sheldrick, G.M., Bahner, I. & Lackner, H. *Angew. Chem.* **110** (1998) 2482-2485; *Angew. Chem. Int. Ed. Engl.* **37** (1998) 2381-2384.
715. Octanuclear Bis(triple-helical) Metal(II) Complexes. Saalfrank, R.W., Löw, N., Trummer, S., Sheldrick, G.M., Teichert, M. & Stalke, D. *Eur. J. Inorg. Chem.* (1998) 559-563.
716. The 1.2 Å crystal structure of hirustasin reveals the intrinsic flexibility of a family of highly disulphide-bridged inhibitors. Usón, I., Sheldrick, G.M., de La Fortelle, E., Bricogne, G., Di Marco, S., Priestle, J.P., Grütler, M.G. & Mittl, P.R.E. *Structure* **7** (1999) 55-63.
717. V-Amylose at atomic resolution: X-ray structure of a cycloamylose with 26 glucose residues (cyclomaltohexaicosaoose). Gessler, K., Usón, I., Takah, T., Krauss, N., Smith, S.M., Okada, S., Sheldrick, G.M. & Saenger, W. *Proc. Natl. Acad. Sci.* **96** (1999) 4246-4251.
718. 1.7 Å structure of the stabilized REI_v mutant T39K. Application of local NCS restraints. Usón, I., Pohl, E., Schneider, T.R., Dauter, Z., Schmidt, A., Fritz, H.-J. & Sheldrick, G.M. *Acta Crystallogr. D***55** (1999) 1158-1167.
719. Can Anomalous Signal of Sulfur Become a Tool for Solving Protein Crystal Structures?. Dauter, Z., Dauter, M., de La Fortelle, E., Bricogne, G. & Sheldrick, G.M. *J. Mol. Biol.* **289** (1999) 83-92.
720. Variation of a Theme: Crystal Structure with Four Octakis(2,3,6-tri-O-methyl) γ -cyclodextrin Molecules Hydrated Differently by a Total of 19.3 Water. Aree, T., Usón, I., Schulz, B., Reck, G., Hoier, H., Sheldrick, G.M. & Saenger, W. *J. Am. Chem. Soc.* **121** (1999) 3321-3327.

721. *Ab initio* structure solution of a dimeric cytochrome c_3 from *Desulfovibrio gigas* containing disulfide bridges. Frazao, C., Sieker, L., Sheldrick, G.M., Lamzin, V., LeGall, J. & Carrondo, M.A. *J. Biol. Inorg. Chem.* **4** (1999) 162-165.
722. Absolute configurations of Emycin D, E and F; mimicry of centrosymmetric space groups by mixtures of chiral stereoisomers. Walker, M, Pohl, E., Herbst-Irmer, R., Gerlitz, M., Rohr, J. & Sheldrick, G.M. *Acta Crystallogr.* **B55** (1999) 607-616.
723. Advances in direct methods for protein crystallography. Usón, I. & Sheldrick, G.M. *Curr.Opin.Struct. Biol.* **9** (1999) 643-648.
724. Crystal structure determination at 1.4 Å resolution of ferredoxin from the green alga *Chlorella fusca*. Bes, M.T., Parisini, E., Inda, L.A., Saraiva, L.M., Peleato, M.L. & Sheldrick, G.M. *Structure* **7** (1999) 1201-1211.
725. *Ab initio* solution and refinement of two high-potential iron protein structures at atomic resolution. Parisini, E., Capozzi, F., Lubini, P., Lamzin, V., Luchinat, C. & Sheldrick, G.M. *Acta Crystallogr.* **D55** (1999) 1773-1784.
726. Structure and molecular modelling of protected depeptide fragment (Boc-Phe-Leu-OBzl) of enkephalin. Antolic, S., Teichert, M., Sheldrick, G., Kojic-Prodic, B., Cudic, M. & Horvat, S. *Acta Crystallogr.* **B55** (1999) 975-984.
727. High-resolution Structure of Bovine Pancreatic Trypsin Inhibitor with Altered Binding Loop Sequence. Czapinska, H., Otlewski, J., Krzywda, S., Sheldrick, G.M. & Jaskólski, M. *J. Mol. Biol.* **295** (2000) 1237-1249.
728. The Crystal Structure of N¹⁰-Formyltetrahydrofolate Synthase from *Moorella thermoacetica*. Radfar R., Shin, R., Sheldrick, G.M., Minor, W., Lovell, C.R., Odom, J.D., Dunlap, R.B. & Lebioda, L. *Biochemistry* **39** (2000) 3920-3926.
729. *Ab initio* structure determination of the lantibiotic mersacidin. Schneider, T.R., Kärcher, J., Pohl, E., Lubini, P. & Sheldrick, G.M. *Acta Crystallogr.* **D56** (2000) 705-713.
730. Crystal structure of low-potential cytochrome c_{549} from *Synechocystis* sp. PCC 6803 at 1.21 Å resolution. Frazão, C., Enguita, F.J., Coelho, R., Sheldrick, G.M., Navarro, J.A., Hervás, M., De la Rosa, M.A. & Carrondo, M.A. *J. Biol. Inorg. Chem.* **6** (2001) 324-332.
731. Macromolecular applications of SHELX. Sheldrick, G.M. *International Tables for Crystallography, Vol. F*, Eds. Rossmann, M.G. & Arnold, E., IUCr and Kluwer Academic Publishers, Dordrecht (2001) 734-738.
732. *Ab initio* phasing by dual-space direct methods. Weeks, C.M., Sheldrick, G.M., Miller, R., Usón, I. & Hauptman, H.A. *Avances in Structure Analysis, Czech and Slovak Crystallographic Association* (2001) 37-62.

733. Crystal structure of a Cyclotetraicosaphenylene. Müller, P., Usón, I., Hensel, V., Schlüter, A.D. & Sheldrick, G.M. *Helvetica Chimica Acta* **84** (2001) 778-785.
734. *Ab initio* phasing. Sheldrick, G.M., Hauptman, H.A., Weeks, C.M., Miller, R. & Usón, I. *International Tables for Crystallography, Vol. F*, Eds. Rossmann, M.G. & Arnold, E., IUCr and Kluwer Academic Publishers, Dordrecht (2001) 333-351.
735. X-ray structure of β -cyclodextrin-2,7-dihydroxy-naphthalene.4.6H₂O: an unusually distorted macrocycle. Añibarro, M., Gessler, K., Usón, I., Sheldrick, G.M. & Saenger, W. *Carbohydr. Res.* (2001) 251-256.
736. Effect of Peracylation of β -Cyclodextrin on the Molecular Structure and on the Formation of Inclusion Complexes: An X-ray Study. Añibarro, M., Gessler, K., Usón, I., Sheldrick, G.M., Harata, K., Uekama, K., Hirayama, F., Abe, Y. & Saenger, W. *J. Amer. Chem. Soc.* **123** (2001) 11854-11862.
737. The Molecular Structure and Crystal Organization Of *Rac*-terfenadine/ β -cyclodextrin/tartaric Acid Multicomponent Inclusion Complex. Amari, G., Bacchi A., Delcanale, M., Pelizzi, G., Redenti, E. & Sheldrick, G.M. *Supramol.Chem.* **4** (2002) 67-74.
738. Structures of Glycopeptide Antibiotics with Peptides that model Bacterial Cell-Wall Precursors. Lehmann, C., Bunkóczi, G., Vértesy, L. & Sheldrick, G.M. *J. Mol. Biol.* **318** (2002) 723-732.
739. Refinement of Obverse/Reverse Twins. Herbst-Irmer, R., Sheldrick, G.M. *Acta Crystallogr.* **B58** (2002) 477-481.
740. Degradation Pathway of the Phosphonate Ciliatine: Crystal Structure of 2-Aminoethylphosphonate Transaminase. Chen, C.H.C., Zhang, H., Kim, A.D., Howard, A., Sheldrick, G.M., Mariano-Dunaway, D., Herzberg, O. *Biochemistry* **41** (2002) 13162-13169.
741. Macromolecular Phasing with SHELXE. Sheldrick, G.M. *Z. Kristallogr.* **217** (2002) 644-650.
742. Atomic Resolution Structure of Squash Trypsin Inhibitor: Unexpected Metal Coordination. Thaimattam, R., Tykarska, E., Bierzynski, A., Sheldrick, G.M., Jaskolski, M. *Acta Crystallogr.* **D58** (2002) 1448-1461.
743. Substructure Solution with SHELXD. Schneider, T.R., Sheldrick, G.M. *Acta Crystallogr.* **D58** (2002) 1772-1779.
744. Syntheses and crystal structures of the Ag-S cluster compounds [Ag₇₀S₁₆(SPh)₃₄(PhCO₂)₄triphos]₄ und [Ag₁₈₈S₉₄(PR₃)₃₀]. Wang, X.-J., Langetepe, T., Persau, C., Kang, B.-S., Sheldrick, G.M., Fenske, D. *Angew. Chem.* **114**: (2002) 3972-3977; *Int. Edn.* **41** (2002) 3818-3822.
745. Non-bonded water molecules confined into a self-assembled calix[6]arene cage. Arduini, A., Ferdani, R., Pochini, A., Secchi, A., Ugozzoli, F., Sheldrick, G.M., Prados, P., Gonzáles, J.J., de Mendoza, J. *J. Supramol. Chem.*, **2** (2002) 85-88.

746. Is the Bond-Valence Method Able to Identify Metal Atoms in Protein Structures?. Müller, P., Köpke, S., Sheldrick, G.M. *Acta Crystallogr. D* **59** (2003) 32-37.
747. Locating the Anomalous Scatterer Substructures in Halide and Sulfur Phasing. Usón, I., Schmidt, B., von Bülow, R., Grimme, S., von Figura, K., Dauter, M., Rajashankar, K.R., Dauter, Z., Sheldrick, G.M. *Acta Crystallogr. D* **59** (2003) 57-66.
748. In-house phase determination of the lima bean trypsin inhibitor: a low-resolution sulfur-SAD case. Debreczeni, J. É., Bunkóczi, G., Girmann, B., Sheldrick, G.M. *Acta Crystallogr. D* **59** (2003) 393-395.
749. Structure of dimeric cytochrome c_3 from *Desulfovibrio gigas* at 1.2 Å resolution. Aragão, D., Frazão, C., Sieker, L., Sheldrick, G.M., LeGall, J., Carrondo, M.A. *Acta Crystallogr. D* **59** (2003) 644-653.
750. X-ray structure of the cyclomaltohexaicosaoase triiodide inclusion complex provides a model for amylose-iodine at atomic resolution. Nimz, O., Geßler, K., Usón, I., Laettig, S., Welfle, H., Sheldrick, G.M. & Saenger, W. *Carbohydr. Res.* **338** (2003) 977-986.
751. In-house Measurement of the Sulfur Anomalous Signal and its Use for Phasing. Debreczeni, J.É., Bunkóczi, G., Ma, Q., Blaser, H., Sheldrick, G.M. *Acta Crystallogr. D* **59** (2003) 688-696.
752. Structures of Four Crystal Forms of Decaplanin. Lehmann, C., Debreczeni, J.É., Bunkóczi, G., Dauter, M., Dauter, Z., Vértesy, L., Sheldrick, G.M. *Helv. Chim. Acta* **86** (2003) 1478-1487.
753. Crystal Structure and Functional Analysis of *Drosophila* Wind, a Protein-disulfide Isomerase-related Protein. Ma, Q., Guo, C., Barnewitz, K., Sheldrick, G.M., Sölling, H-D., Usón, I., Ferrari, D.M. *J. Biol. Chem.* **278** (2003) 44600-44607.
754. Crystal Structures of Cephaibols. Bunkóczi, G., Schiell, M., Vértesy, L., Sheldrick, G.M. *J. Peptide Sci.*, **9** (2003) 745-752.
755. Automatic Solution of Heavy-Atom Substructures. Weeks, C.M., Adams, P.D., Berendzen, J., Brunger, A.T., Dodson, E.J., Grosse-Kunstleve, R.W., Schneider, T.R., Sheldrick, G.M., Terwilliger, T.C., Turkenburg, M., Usón, I. *Meth. Enzymol.* **374** (2003) 37-83.
756. Structure of viscotxin A3: disulphide location from weak SAD data. Debreczeni, J.É., Girmann, B., Zeeck, A., Krätzner, R., Sheldrick, G.M. *Acta Crystallogr. D* **59** (2003) 2125-2132.
757. Inclusion complexes of V-amylose with undecanoic and dodecanol at atomic resolution: X-ray structures with cycloamylose containing 26 D-glucoses (cyclohexaicosaoase) as host. Gessler, K., Nimz, O., Saenger, W., Sheldrick, G.M., Usón, I. *Carbohydr. Res.* **339** (2004) 1427-1437.
758. Solution and structure of an alternating D,L-peptide. Alexopoulos, E., Diederichsen, U., Küsel, A., Sheldrick, G. M., Usón, I. *Acta Crystallogr. D* **60** (2004) 1971-1980.

759. Crystal structure of the alkylsulfatase AtsK: Insights into the catalytic mechanism of the Fe(II)alpha-ketoglutarate-dependent dioxygenase superfamily. Dierks, T., Kahnert, A., Kertesz, M., Meyer-Klaucke, W., Müller I., Pape, T., Sheldrick, G.M., Usón, I. *Biochemistry* **43** (2004) 3075-3088.
760. Mapping of a Substrate Binding Site in the Protein Disulfide Isomerase-related Chaperone Wind Based on Protein Function and Crystal Structure. Barnewitz, K., Ferrari, D.M., Guo, C., Ma, Q., Sevvana, M., Sheldrick, G.M., Söling, H.-D. *J Biol. Chem.* **279** (2004) 39829-39837.
761. The Antiviral Antibiotic Feglymycin: First Direct-Methods Solution of a 1000+ Equal-Atom Structure. Bunkóczi, G., Sheldrick, G.M., Vértesy, L. *Angew. Chem.* **117** (2005) 1364-1366; *Int. Edn.* **44** (2005) 1340-1342.
762. Crystal and solution structures of 7-amino-actinomycin D complexes with d(TTAGBrUT), d(TTAGTT) and d(TTTAGTTT). Alexopoulos, E., Jares-Erijman, A., Jovin, T.M., Klement, R., Machinek, R., Sheldrick, G.M., Usón, I. *Acta Crystallogr.* **D61** (2005) 407-415.
763. Structures of complexes between echinomycin and duplex DNA. Cuesta-Seijo, J.A., Sheldrick, G.M. *Acta Crystallogr.* **D61** (2005) 442-448.
764. Structure of *Ecballium elaterium* trypsin inhibitor II (EETI-II): a rigid molecular scaffold. Debreczeni, J.É., Kolmar, H., Krätzner, R., Pape, T., Schneider, T.R., Sheldrick, G.M., Usón, I. *Acta Crystallogr.* **D61** (2005) 1255-1262.
765. Improving radiation-damage substructures for RIP. Nanao, M.H., Ravelli, R.B.G., Sheldrick, G.M. *Acta Crystallogr.* **D61** (2005) 1227-1237.
766. Structure of the lipopeptide antibiotic tsushimycin. Bunkóczi, G., Sheldrick, G.M., Vértesy, L. *Acta Crystallogr.* **D61** (2005) 1160-1164.
767. Crystal and molecular structures of C₇₀(CF₃)₈ PhMe. Dorozhkin, E.I., Goryunkov, A.A., Ignat'eva, D.V., Kemnitz, E., Sheldrick, G.M., Sidorov, L.N., Troyanov, S.I. *Mendeleev Commun.* **1** (2005) 225-227.
768. Sesquiterpene Lactones from *Elephantopus scaber*. Fiebig, H.H., Fotso, S., Kelter, G., Laatsch, H., Sevvana, M., Sheldrick, G.M., Than N.N. *Z. Naturforsch.* **60b** (2005) 200-204.
769. Comparative Cytotoxicity Studies of Viscotoxin Isoforms and X-ray Structure of Viscotoxin A3 from Mistletoe Extracts. Debreczeni, J.É., Kahle, B., Sheldrick, G.M., Zeeck, A., *Fortschritte in der Misteltherapie*, Eds. Scheer, R., Bauer, R., Becker, H., Fintelmann, V., Kemper F.H., , Schilcher, H., KVC Verlag, Essen (2005) 83-97.
770. Serendipitous SAD phasing of an echinomycin-(ACGTACGT)₂ bisintercalation complex. Cuesta-Seijo, J.A., Sheldrick, G.M., Weiss, M.S. *Acta Crystallogr.* **D62** (2006) 417-424.
771. Structural elucidation of the PDI-related chaperone Wind with the help of mutants. Biadene, M., Ferrari, D.M., Guo, C., Ma, Q., Sevvana, M., Sheldrick, G.M., Söling, H.-D. *Acta Crystallogr.* **D62** (2006) 589-594.

772. Structure of the C2A domain of rabphilin-3A. Becker, S., Biadene, M., Montaville, P., Sheldrick, G.M. *Acta Crystallogr. D* **62** (2006) 793-799.

773. A parallel program using *SHELXD* for quick heavy-atom partial structural solution on high-performance computers. Chrzas, J., Fu, Z.-Q., Rose, J., Sheldrick, G.M., Wang, B.-C. *J. Appl. Crystallogr.* **40** (2007) 387-390.

774. The Solution and Crystal Structures of a Module Pair from the *Staphylococcus aureus*-Binding Site of Human Fibronectin – A tale with a Twist. Garman, E.F., Korostelev, V.V., Nanao, M.H., Potts, J.R., Ravelli, R.B.G., Rudiño-Piñera, E., Schwarz-Linek, U., Sheldrick, G.M., Werner, J.M. *J. Mol. Biol.* **368** (2007) 833-844.

775. The atomic resolution structure of human aldose reductase reveals that rearrangement of a bound ligand allows the opening of the safety-belt loop. Biadene, M., Cousido, A., Ginelli, S., Hazemann, I., Joachimiak, A. Podjarny, A., Sheldrick, G.M., Schneider, T.R. *Acta Crystallogr. D* **63** (2007) 665-672.

776. Sad Phasing: Basic Concepts and High-Throughput. Sheldrick, G.M., *Evolving Methods for Macromolecular Crystallogr.* Eds. Read, R.J. & Sussmann, J.L. Springer, Berlin (2007) 53-65.

777. The C2A-C2B Linker Defines the High Affinity Ca²⁺ Binding Mode of Rabphilin-3A. Becker, S., Leonov, A., Montaville, P., Schlicker, C., Sheldrick, G.M., Zweckstetter, M., *J. Biol. Chem.* **282** No. 7 (2007) 5015-5025.

778. Structure determination of the O-methyltransferase NovP using the 'free lunch algorithm' as implemented in *SHELXE*. Lawson, D.M., Sheldrick, G.M., Stevenson, C.E.M., Usón, I. *Acta Crystallogr. D* **63** (2007) 1069-1074.

779. A short history of *SHELX*. Sheldrick, G.M. *Acta Crystallogr. A* **64** (2008) 112-122.

780. A Ligand-Induced Switch in the Periplasmic Domain of Sensor Histidine Kinase CitA. Becker, S., Bott, M., Griesinger, C., Herbst-Irmer, R., Madden, D.R., Reinelt, S., Sevvana, M., Sheldrick, G.M., Vijayan, V., Zweckstetter, M. *J. Mol. Biol.* **377** (2008) 512-523.

781. Structural Analysis of the PP2C Phosphatase tPphA from *Thermosynechococcus elongatus*: A Flexible Flap Subdomain Controls Access to the Catalytic Site. Becker, S., Fokina, O., Forchhammer, K., Grüne, T., Kloft, N., Schlicker, C., Sheldrick, G.M., *J. Mol. Biol.* **376** (2008) 570-581.

782. 5-Amino-2,4,6-triiodoisophthalic acid monohydrate. Beck, T., Sheldrick, G.M., *Acta Crystallogr. E* **64** (2008) o1286.

783. Crystal structure of trioxacarcin A covalently bound to DNA. Laatsch, H., Pfoh, R., Sheldrick, G.M., *Nucleic Acids Research* **36** (2008) 3508-3514.

784. Structures of viscotoxins A1 und B2 from European mistletoe solved using native data alone. Debreczeni, J.E., Grüne, T., Kahle, B., Pal, A., Sheldrick, G.M., Zeeck, A., *Acta Crystallogr. D* **64** (2008) 985-992.