

Publications (undergraduate student co-authors underlined)

- (1) A New Electrophilic Alaninol Synthone. A General Route to Oxazolidinones of D or (R)-Amino Alcohols from L-Serine. Sibi, M.P.; Rutherford, D.; Sharma, R. *J. Chem. Soc., Perkin Trans. 1* **1994**, 13, 1675.
- (2) The Use of Tetradentate (N_2O_2) Ligands To Form Monomeric, Trimetallic Aluminum Complexes. Atwood, D.A.; Jegier, J.A.; Martin, K.J.; Rutherford, D. *Organometallics* **1995**, 14, 1453.
- (3) Cationic Aluminum Complexes with Potential Relevance to Lewis Acid Catalysis. Atwood, D.A.; Jegier, J.A.; Rutherford, D. *J. Am. Chem. Soc.* **1995**, 117, 6779.
- (4) Synthesis and Structural Characterization of [(SalphanAl)Li(THF) $_2$] $_2$ and [(SalomphanAl)Li(THF) $_2$] $_2$: A New Class of Aluminum Anion. Atwood, D.A.; Rutherford, D. *Inorg. Chem.* **1995**, 34, 4008.
- (5) Use of Tetradentate (N_2O_2) Ligands To Form Monomeric, Trimetallic Gallium Complexes. Atwood, D.A.; Rutherford, D. *Organometallics* **1995**, 14, 2880.
- (6) Synthesis and Structural Characterization of Tetradentate ($-N_2O_2$) Ligand Complexes of Zinc. Atwood, D.A.; Benson, J.; Jegier, J.A.; Lindholm, N.F.; Martin, K.J.; Pitura, R.J.; Rutherford, D. *Main Group Chem.* **1995**, 1, 99.
- (7) Tetradentate $-N_2O_2$ Ligand Complexes of Tin (II). X-Ray Crystal Structure of [N,N'-(1,2-ethylene)bis(salicylaldamine)]tin(II), (SaleanH $_2$ Sn). Atwood, D.A.; Jegier, J.A.; Martin, K.J.; Rutherford, D. *J. Organomet. Chem.* **1995**, 503, C4.
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- (9) A New Class of Aluminum Cations Based Upon Tetradentate (N_2O_2) Chelating Ligands. Atwood, D.A.; Jegier, J.A.; Rutherford, D. *Inorg. Chem.* **1996**, 35, 63.
- (10) The First Structurally Characterized Monolithio Aluminum Amide Dimer. Atwood, D.A.; Rutherford, D. *Organometallics* **1996**, 15, 436.
- (11) Synthesis and Structural Characterization of Chiral Amine Alcohol Complexes of Aluminum. Atwood, D.A.; Gabbäi, F.P.; Lu, J.; Remington, M.P.; Rutherford, D.; Sibi, M.P. *Organometallics* **1996**, 15, 2308.
- (12) Synthesis, Structure and Reactivity of SalanH $_2$ -Metal Complexes. Atwood, D.A.; Jegier, J.A.; Lindholm, N.F.; Martin, K.J.; Rutherford, D. *J. Coord. Chem.* **1996**, 38, 305.
- (13) Structural Characterization of the Unusual Adduct Complex, Me $_2$ Bu i Al-NH[Li(thf) $_3$](C $_6$ H $_5$ Pr $_2$ -2,6). Atwood, D.A.; Rutherford, D. *J. Chem. Soc., Chem. Commun.* **1996**, 1251.
- (14) Five-Coordinate Aluminum Amides. Rutherford, D.; Atwood, D.A. *Organometallics* **1996**, 15, 4417.
- (15) Use of the SalanH $_4$ Ligands to Form Bimetallic Aluminum Complexes. Atwood, D.A.; Remington, M.P.; Rutherford, D. *Organometallics* **1996**, 15, 4763.
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- (17) Unusual Alkylaluminum Amides, Adducts, and Aluminates Containing Lithium. Rutherford, D.; Atwood, D.A. *J. Am. Chem. Soc.* **1996**, 118, 11535.
- (18) Tetradentate (N_2O_2) Chelate Complexes of the Group 13 Elements Having a Ligand-Metal Stoichiometry of 1:2. Atwood, D.A.; Jegier, J.A.; Remington, M.P.; Rutherford, D. *Aust. J. Chem.* **1996**, 49, 1333.
- (19) The Trimetallic Structural Motif in Group 13 Chemistry. Atwood, D.A.; Rutherford, D. *Comments Inorg. Chem.* **1997**, 19, 25.
- (20) Unusual Structural Features in an Alkyl Aluminum Lithium Amide. Atwood, D.A.; Rutherford, D. *Main Group Chem.* **1997**, 2, 5.
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- (22) The First Structurally Characterized Salen-Indium Complexes. Atwood, D.A.; Jegier, J.A.; Rutherford, D. *Bull. Chem. Soc. Jpn.* **1997**, 70, 2093.

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- (24) Transition Metal Catalysis in Fluorous Media: Application of a New Immobilization Principle to Rhodium-Catalyzed Hydrogenation of Alkenes. Rutherford, D.; Juliette, J.J.J.; Rocaboy, C.; Horváth, I.T.; Gladysz, J.A. *Catal. Today*, **1998**, *42*, 381.
- (25) Additions of PH_3 to Monosubstituted Alkenes of the Formula $\text{H}_2\text{C}=\text{CH}(\text{CH}_2)_x(\text{CF}_2)_y\text{CF}_3$: Convenient, Large Scale Syntheses of a Family of Partially Fluorinated Trialkylphosphines with Modulated Electronic Properties and Fluorous Phase Affinities. Alvey, L.; Rutherford, D.; Juliette, J.J.J.; Gladysz, J.A. *J. Org. Chem.* **1998**, *63*, 6302.
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- (27) Transition Metal Catalysis in Fluorous Media: Practical Application of a New Immobilization Principle to Rhodium-Catalyzed Hydroboration of Alkenes and Alkynes. Juliette, J.J.J.; Rutherford, D.; Horváth, I.T.; Gladysz, J.A. *J. Am. Chem. Soc.* **1999**, *121*, 2696.
- (28) Investigations of a Nucleophilic Alaninol Synthone Derived from Serine. Sibi, M.P.; Rutherford, D.; Renhowe, P.A.; Li, B. *J. Am. Chem. Soc.* **1999**, *121*, 7509.
- (29) Examination of Dibenzyl Aluminum and Gallium Azides as Potential Precursors to AlN and GaN. Munoz-Hernandez, M., Rutherford, D., Tiainen, H., Atwood, D. *J. Organomet. Chem.* **1999**, 582, 103.
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- (33) Hapten Syntheses and Antibody Generation for the Development of Polybrominated Flame Retardants Enzyme-Linked Immunosorbent Assay. Shelver, W.L.; Keum, Y.-S.; Kim, H.-J.; Rutherford, D.; Hakk, H.H.; Bergman Å.; Li, O.X. *J. Agric. Food Chem.* **2005**, *53*, 3840.
- (34) Tissue Disposition, Excretion, and Metabolism of 2,2',4,4',6-Pentabromodiphenyl Ether (BDE-100) in Male Sprague-Dawley Rats. Hakk, H.; Huwe, J.; Low, M.J.; Rutherford, D.; Larsen, G. *Xenobiotica*, in press.
- (35) (R)-4-(Hydroxymethyl)-2-Oxazolidinone. Sibi, M.P.; Harris, B.H.; Renhowe, P.A.; Christensen, J.W.; Lu, J.; Rutherford, D.; Li, B. *Organic Syntheses*, submitted.
- (36) Rutherford, D. Homogenous Hydrogenation in Neoteric Solvents: Fluorous Solvents. In *The Handbook of Homogeneous Hydrogenation*; de Vries, J.G.; Elsevier, C.J., Eds; Wiley-VCH: Weinheim, invited contributor, manuscript in preparation.