

PUBLICATIONS:

1. "A Weakly Coordinating Anion as a Tripodal 'Br₃'-Ligand for Platinum(IV): Structure of [(closo-CB₁₁H₆Br₆)PtMe₃]" De Crisci, A.G., Kleingardner, J., Lough, A.J., Larsen, A. and Fekl, U. *Canadian Journal of Chemistry*, accepted for publication (April 2008)
2. "Designing ionic liquids with boron cluster anions: alkyl pyridinium and imidazolium [nido C₂B₉H₁₁] and [closo-CB₁₁H₁₂] carborane salts" Dymon, J., Wibby, R., Kleingardner, J., Tanski, J.M., Guzei, I.A., Holbrey, J.D., Larsen, A.S. *Dalton Trans.* (2008) in press
3. (Glycol-[kappa]²[O,O']nitrosyl[eta]⁵-pentamethylcyclopentadienyl) ruthenium(II) bis(trifluoromethanesulfonate) Munie, S., Larsen, A. and Gembicky, M. *Acta Cryst.* (2008). E64, m293
4. "Structure of the Di- μ -nitrosyl-bis [(eta-5-pentamethylcyclopentadienyl) ruthenium(0)](Ru—Ru) complex", Pearsall, M., Gembicky, M., Dominiak, P., Larsen, A., Coppens, P., *Acta Crystallographica Section E*, 2007, E63, m2596
5. Book "Student Study Guide" (co-authored with Michael Goldfeld): supplement for the textbook "Chemistry: The Molecular Science" (Moore, Stanitski and Jurs), 2005, Thomson Learning, ISBN 0-534-49072-7
6. "Hydrogen Atom Transfer from Iron(II)-tris[2,2'-bi(tetrahydropyrimidine)] to TEMPO: A Negative Enthalpy of Activation" Mader, E.A.; Larsen, A.S.; Mayer, J.M. *J. Am. Chem. Soc.* **2004**, *126* (26); 8066-8067
7. "Non-Organometallic Mechanisms for C-H Bond Oxidation" Mayer, J., Larsen, A., Bryant, J., Wang, K., Lockwood, M., Rice, G., Won, T.-J. in ACS Symposium Series "Activation and Functionalization of C-H Bonds" 2003, edited by Karen Goldberg
8. "Electron and Hydrogen Atom Self-Exchange Reactions of Iron and Cobalt Coordination Complexes" Yoder, J.C.; Roth, J.P.; Gussenhoven, E.M.; Larsen, A.S.; Mayer, J.M. *J. Am. Chem. Soc.* **2003**, *125*, 2629-2640
9. "Hydrocarbon Oxidation by Bis- μ -Oxo Manganese Dimers: Electron Transfer, Hydride Transfer, And Hydrogen Atom Transfer Mechanisms" Larsen, A.S.; Wang, K.; Lockwood, M. A.; Rice, G.L.; Won, T.J.; Lovell, S.; Sadilek, M.; Tureček, F.; Mayer J.M. *J. Am. Chem. Soc.* **2002**, *124*; 10112-10123
10. "Molecular Structure of the Solvated Proton in Isolated Salts. Brønsted Acid Reagents, H(Solvent)²⁺, with Weakly Coordinating Anions" Stasko, D.; Hoffmann, S.; Kim, K.-C.; Fackler, N.L.P.; Larsen, A.S.; Drovetskaya, T.; Tham, F.S.; Reed, C.A.; Rickard, C.E.F.; Boyd, P.D.W.; Tsang, C.W.; Mak, T. C. W. , Xie, Z. *J. Am. Chem. Soc.* **2002**, *124*; 13869-13876
11. "Designing Ionic Liquids: Imidazolium Melts with Inert Carborane Anions" Larsen, A.S.; Holbrey, J. D.; Tham, F. S.; Reed, C. A. *J. Am. Chem. Soc.* **2000**, *122*(30), 7264-7272.
12. "Aqueous Organometallic Chemistry of the Electrophilic [(Cp*(CH₃)₅Ru(NO)]²⁺ Fragment" Svetlanova-Larsen, A.; Zoch, C.R.; Hubbard, J. L *Organometallics*, **1996**, *15*, 3076-87.
13. "An Evaluation of Triflate Displacement by Water in CH₂Cl₂ Solutions of *trans*-[Rh(CO)(PPh₃)₂(OSO₂CF₃)]" Svetlanova-Larsen, A.; Hubbard, J.L. *Inorg Chem.* **1996**, *35* (10), 3073-76.
14. "Crystal and Molecular Structure of 1,5-Dimethyl-9,9-dioxy-3,7-diazabicyclo[3.3.1] nonane Dihydrochloride Dihydrate" Goncharov, A.V.; Potekhin, K.; Struchkov, Y.; Svetlanova (Larsen), A. Chemodanova, S.V.; Palyulin, V.; Zefirov, N. *Proc. Russ. Nat. Academy Sci.* **1992**, 285-287.

15. "Synthesis and Molecular Structure of 1,5-Dimethyl-3,7-di-tert-butyl-3,7-diazabicyclo[3.3.1]nonane-9-one" Potekhin, K., Levina, O., Struchkov, Y., Svetlanova (Larsen), A.; Idrisova, R.; Palyulin, V.; Zefirov, N. *J. Chem. Soc. Mendeleev Comm.* **1991**, 87-89.

SELECTED PRESENTATIONS AND ABSTRACTS (undergraduate student co-authors underlined)

- "Carborane stabilized ruthenium complexes and boron-cluster based ionic melts" Larsen, Anna S.; Masland, Joshua David, Pearsall, Matthew, Kleingardner, Jesse; Dymon, John. Invited lecture at State University of New York in Albany Chemistry department, Albany, NY, April 15, 2008
- "Low-melting salts based on carborane cluster anions" Larsen, Anna, coauthored by John Dymon ('09), Ryan Wibby ('07) and Jesse Kleingardner ('06), poster presentation at Inorganic Chemistry Gordon Research Conference, Salve Regina University, Newport, Rhode Island, July 20-25, 2007.
- "Mechanistic Studies of Alcohol Oxidation by ruthenium complexes" (both poster and oral presentation) Larsen, A. S., Rich, K. Gordon Research Conference on Inorganic Reactions Mechanisms, Ventura, CA, February 2007.
- "Synthesis of ruthenium carborane complexes". Larsen, Anna S.; Masland, Joshua David. Presented at the National Science Foundation Workshop for Inorganic Chemistry, Seattle, Washington, June 2006
- "Alcohol Oxidation by ruthenium complexes" Larsen, Anna. S., Rich, K. Gordon Research Conference, Inorganic Chemistry, Salve Regina University, Newport, Rhode Island, July 2006.
- "Carborane stabilized ruthenium complexes" Larsen, Anna S.; Masland, Joshua David, Pearsall, Matthew. Invited lecture at the University of Sheffield, UK, May 7, 2006
- "Synthesis of ruthenium carborane complexes by superacidic methyl abstraction". Larsen, Anna S.; Masland, Joshua David. Abstracts of Papers, 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006 (2006), CHED-281.
- "Undergraduate projects at Ithaca College: carboranes in RuCp*(NO) chemistry and low melting ionics." (co-authored by Matt Sprague, Jesse Kleingardner and Joshua Masland) Gordon Research Conference, Inorganic Chemistry, Salve Regina University, Newport, Rhode Island, July 19-24, 2005 (poster presentation). [Presentation supported by GRC Chairs Fund.]

Co-authored presentations:

- "Designing ionic liquids with boron cluster anions: Closo-carborane and ortho-carborane salts of N-alkyl pyridinium and N, N' – dialkyl imidazolium cations" Anna Larsen, , John J. Dymon Jr (presenting), John D. Holbrey, Ryan Emerson Wibby, Jesse Kleingardner¹. Abstracts of Papers, 235th ACS National Meeting, New Orleans, LA, United States, April 5-10, 2008 (2008), INOR-270.
- "Synthesis and characterization of low-melting salts: O-carborane anions with N-alkyl pyridinium and N,N-dialkyl imidazolium." Wibby, R. E. (presenting); Larsen, A. S.; Kleingardner, J.; Brown, K. Abstracts of Papers, 233rd ACS National Meeting, Chicago, IL, United States, March 25-29,

Anna Larsen, *publications and presentations as of April 2008. Undergraduate co-authors underlined*
2007 (2007), CHED-1170.

- "Hydrogen atom transfer reactions of coordination complexes". Mayer, James M. (presenting); Mader, Elizabeth A.; Wu, Adam; Waidmann, Christopher R.; Manner, Virginia W.; Larsen, Anna S. Abstracts of Papers, 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006 (2006), INOR-393.
- "Unified molecular orbital images for the chemistry classroom" (co-authored by Matt Sprague, presenting) 229th National Meeting of the American Chemical Society, San Diego, CA, March 2005
- "Synthesis and characterization of low-melting salts: N-alkyl pyridinium cations with derivatized carborane anions" (co-authored by Jesse Kleingardner, presenting) 229th National Meeting of the American Chemical Society, San Diego, CA, March 2005
- "Synthesis and characterization of cyclopentadienyl nitrosyl ruthenium complex" (co-authored by Matthew Pearsall, presenting) 229th National Meeting of the American Chemical Society, San Diego, CA, March 2005
- "Low-melting Salts with Non-coordinating Carborane Anions" (co-authored by Jesse Kleingardner, presenting) 32nd Northeast Regional Meeting of the American Chemical Society, Rochester, NY, October 2004
- "Electrophilic Metal Center and a Weakly-Coordinating Anion: a Promising Ruthenium Carborane Pro-catalyst?" (co-authored by Matthew Pearsall, presenting) 32nd Northeast Regional Meeting of the American Chemical Society, Rochester, NY, October 2004

(full list of presentations is available upon request, 30+ presentations total)