

CURRICULUM VITAE

Rudolf J. Wehmschulte

Associate Professor

Department of Chemistry, Florida Institute of Technology, 150 West University Boulevard,
Melbourne, FL 32901

Education:

Dr. rer. nat. in Chemistry Westfälische Wilhelms Universität Münster, Nov. 1991
Supervisor: Dr. Josef Grobe
Field of Study: Nickel Complexes with Tripodal Ligands

Diplom Westfälische Wilhelms Universität Münster, Mar. 1988

Vordiplom Ruhruniversität Bochum, Oct. 1985

Research Experience:

Mar. 2007 – present Associate Professor, Department of Chemistry, Florida Institute of
Technology, Melbourne, FL

2005- Mar. 2007 Assistant Professor, Department of Chemistry, Florida Institute of
Technology, Melbourne, FL

1998 - 2005 Assistant Professor, Department of Chemistry and Biochemistry,
University of Oklahoma, Norman, OK

1992 - 1998 Postdoctoral Fellow, Department of Chemistry,
University of California, Davis, CA

1987 - 1992 Graduate Student, Institut für Anorganische Chemie
Westfälische Wilhelms Universität Münster, Germany

Teaching Experience:

Fall 2014	CHM 1102	General Chemistry 2 (Class size 54)
Spring 2014	CHM 4611	Advanced Laboratory Techniques (Class size 4)
	CHM 5018	Special Topics in Inorganic Chemistry: Organometallics (Class size 6)
Fall 2013	CHM 1101	General Chemistry 1 (Class size 50)
	CHM 1101	General Chemistry 1 (Class size 45)
	CHM 5201	Green Chemistry (team taught with Drs. Knight, Nesnas and Sharma) (Class size 9)
Spring 2013	CHM 4611	Advanced Laboratory Techniques (Class size 4)
Fall 2012	CHM 1101	General Chemistry 1 (Class size 45)
	CHM 1102	General Chemistry 2 (Class size 50)
Spring 2012	CHM 4611	Advanced Laboratory Techniques (Class size 7)
	CHM 5018	Special Topics in Inorganic Chemistry: Organometallics (Class size 4)
Fall 2011	CHM 1101	General Chemistry 1 (Class size 46)
	CHM 5018	Special Topics in Inorganic Chemistry: Green Chemistry (team taught with Drs. Knight, Nesnas and Sharma) (Class size 7)
Spring 2011	CHM 4611	Advanced Laboratory Techniques (Class size 3)
	CHM 1102	General Chemistry 2 (Class size 21)
Fall 2010	CHM 1101	General Chemistry 1 (Class size 38)
	CHM 5018	Special Topics in Inorganic Chemistry: Green Chemistry (team taught with Drs. Knight, Nesnas and Sharma) (Class size 9)
Spring 2010	CHM 4611	Advanced Laboratory Techniques (Class size 5)
	CHM 5018	Special Topics in Inorganic Chemistry: Organometallics (Class size 4)
Fall 2009	CHM 1101	General Chemistry 1 (Class size 35)
Spring 2009	CHM 4611	Advanced Laboratory Techniques (Class size 5)
	CHM 1101	General Chemistry 1 (Class size 52)

Fall 2008	CHM 1101	General Chemistry 1 (Class size 36)
Spring 2008	CHM 4611	Advanced Laboratory Techniques (Class size 3)
	CHM 1101	General Chemistry 1 (Class size 44)
Fall 2007	CHM 1101	General Chemistry 1 (Class size 38)
Spring 2007	CHM 5018	Special Topics in Inorganic Chemistry: Organometallics (Class size 4)
	CHM 1101	General Chemistry 1 (Class size 47)
Fall 2006	CHM 1101	General Chemistry 1 (Class size 57)
Spring 2006	CHM 1101	General Chemistry 1 (Class size 44)
Fall 2005	CHM 1101	General Chemistry 1 (Class size 59)
Spring 2005	CHEM 4444	Advanced Synthesis and Characterization (Class size 13)
Fall 2004	CHEM 4333	Inorganic Periodic Table (Class size 24)
Spring 2004	CHEM 4444	Advanced Synthesis and Characterization (Class size 10)
	CHEM 6850	Seminar - Inorganic Chemistry
Fall 2003	CHEM 4333	Inorganic Periodic Table (Class size 32)
Spring 2003	CHEM 4444	Advanced Synthesis and Characterization (Class size 8)
Fall 2002	CHEM 4333	Inorganic Periodic Table (Class size 20)
Spring 2002	CHEM 4444	Advanced Synthesis and Characterization (Class size 8)
Fall 2001	CHEM 5233	Advanced Inorganic Chemistry (Transition Metals) (Class size 5)
Spring 2001	CHEM 5433	Advanced Inorganic Chemistry (Main Group Chemistry) (Class size 7)
Fall 2000:	CHEM 5233	Advanced Inorganic Chemistry (Transition Metals) (Class size 13)
Spring 2000:	CHEM 6850	Seminar - Inorganic Chemistry
Spring 2000:	CHEM 5433	Advanced Inorganic Chemistry (Main Group Chemistry) (Class size 7)
Fall 1999	CHEM 5233	Advanced Inorganic Chemistry (Transition Metals) (Class size 8)
Fall 1998	CHEM 5433	Advanced Inorganic Chemistry (Main Group Chemistry) (Class size 6)

Summer 1993 CHEM 8B, Introductory Organic Chemistry, University of California,
Davis, CA.

1987 - 1992 Various teaching assistant assignments, Institut für Anorganische Chemie
Westfälische Wilhelms Universität Münster, Germany

Awards and Honors:

1992 - 1994 Postgraduate research fellowship awarded by the Deutsche
Forschungsgemeinschaft (DFG), Germany

1988 - 1990 Graduate research grant by the state Nordrhein-Westfalen, Germany

Membership in Professional Societies:

American Chemical Society
American Association for the Advancement of Science

Languages:

Fluent in English and German, knowledge of French and Latin.

Scholarly Services:

Proposal review for: National Science Foundation, Petroleum Research Fund, U.S. Civilian Research & Development Foundation (CDRF), Kentucky Science and Engineering Foundation, Foundation for Science and Technology, Wellington, New Zealand.

Reviewer for Journals including:

ACS Catalysis, ACS Symposium Series, Angewandte Chemie, Applied Organometallic Chemistry, Canadian Journal of Chemistry, Chemistry – A European Journal, Chemical Communications, Chemical Papers, Coordination Chemistry Reviews, Crystal Growth and Design, European Journal of Inorganic Chemistry, Inorganic Chemistry, Inorganic Synthesis, Kirk-Othmer Encyclopedia of Chemical Technology, Journal of the American Chemical Society, Journal of Cluster Science, Journal of Hazardous Materials, Journal of Organometallic Chemistry, Journal of Solid State Chemistry, Main Group Metal Chemistry, Organometallics, Particle & Particle Systems Characterization, Tetrahedron Letters, Scientific Reports.

Primary Research Publications Originating from Research at OU and FIT

59. Rudolf J. Wehmschulte, Kenneth K. Laali, Gabriela L. Borosky, Douglas R. Powell. Synthesis and Structure of the First Bridgehead Silylium Ion. *Organometallics* **2014**, *33*, 2146-2149, DOI: [dx.doi.org/10.1021/om5003792](https://doi.org/10.1021/om5003792).
58. Rudolf J. Wehmschulte, Mahmoud Saleh, Douglas R. Powell. CO₂ Activation with Bulky Neutral and Cationic Phenoxyalanes. *Organometallics* **2013**, *32*, 6812-6819. DOI: [10.1021/om400628z](https://doi.org/10.1021/om400628z).
57. Yannick P. Ouedraogo; Longchuan Huang; Mariana P. Torrente; Gloria Proni; Ekaterina Chadwick; Rudolf J. Wehmschulte; Nasri Nesnas. A Direct Stereoselective Preparation of a Fish Pheromone and Application of the Zinc Porphyrin Tweezer Chiroptical Protocol in Its Stereochemical Assignment. *Chirality* **2013**, *25*, 575-581. DOI: [10.1002/chir.22186](https://doi.org/10.1002/chir.22186).
56. Manish Khandelwal, Rudolf J. Wehmschulte. Deoxygenative Reduction of Carbon Dioxide

- to Methane, Toluene, and Diphenylmethane with $[\text{Et}_2\text{Al}]^+$ as Catalyst. *Angew. Chem. Int. Ed.* **2012**, *51*, 7323-7326. DOI: 10.1002/anie.201201282. Deoxygenierende Reduktion von Kohlendioxid zu Methan, Toluol und Diphenylmethan mit $[\text{Et}_2\text{Al}]^+$ als Katalysator. *Angew. Chem.* **2012**, *124*, 7435-7439. DOI: 10.1002/ange.201201282.
55. Manish Khandelwal, Rudolf J. Wehmschulte. Cationic Organoaluminum Compounds as Intramolecular Hydroamination Catalysts. *J. Organomet. Chem.* **2012**, *696*, 4179-4183. DOI: 10.1016/j.jorganchem.2011.09010.
54. Rudolf J. Wehmschulte, Lukasz Wojtas. Cationic Ethylzinc Compound: A Benzene Complex with Catalytic Activity in Hydroamination and Hydrosilylation Reactions. *Inorg. Chem.* **2011**, *50*, 11300-11302. DOI: 10.1021/ic201921d
53. Tomasz Klis, Douglas R. Powell, Lukasz Wojtas, Rudolf J. Wehmschulte. Synthesis and Characterization of Bulky Cationic Arylalkylaluminum Compounds. *Organometallics* **2011**, *30*, 2563-2570.
52. Manish Khandelwal, Douglas R. Powell, Rudolf J. Wehmschulte. Low-Coordinate Aluminum Amides from Silylanilines and Alkylalanes. *Eur. J. Inorg. Chem.* **2011**, 521-526.
51. Rudolf J. Wehmschulte. At Last: A Stable Univalent Gallium Cation. *Angew. Chem. Int. Ed.* **2010**, *49*, 4708-4709. Endlich – ein einwertiges Galliumkation. *Angew. Chem.* **2010**, *122*, 4816-4817.
50. Sukesh Shekar, Mamie M. Taylor, Brendan Twamley, Rudolf J. Wehmschulte. Synthesis of Aryloxyaluminum Hydrides and their Conversion into Aryloxyalumoxanes $(\text{ArOAlO})_n$. *Dalton Trans.* **2009**, 9322-9326.
49. Bryan Buster, Armando A. Diaz, Tillman Graham, Rabiya Khan, Masood A. Khan, Douglas R. Powell, Rudolf J. Wehmschulte. *m*-Terphenylphosphines: Synthesis, structures and coordination properties. *Inorg. Chim. Acta* **2009**, *362*, 3465-3474.

48. Sukesh Shekar, Brendan Twamley, Rudolf J. Wehmschulte. Facile Synthesis of Monoazidotitanium Isopropoxides. *Inorg. Chem.* **2008**, *47*, 10804-10806.
47. Armando A. Diaz, Bryan Buster, Daniel Schomisch, Masood A. Khan, J. Clayton Baum, Rudolf J. Wehmschulte. Size Matters: Room Temperature P-C Bond Formation Through C-H Activation in *m*-Terphenyldiiodophosphines. *Inorg. Chem.* **2008**, *47*, 2858-2863.
46. Jackie D. Young, Masood A. Khan, Douglas R. Powell, Rudolf J. Wehmschulte. Aluminum and Gallium *m*-Terphenyls: Synthesis and Conversion into Low-Coordinate Organogallium Cations. *Eur. J. Inorg. Chem.* **2007**, 1671-1681.
45. Brij B. Tewari, Sukesh Shekar, Longchuan Huang, Carolyn Gorrell, Timothy P. Murphy, Kevin Warren, Nasri Nesnas, Rudolf J. Wehmschulte. Aluminumoxyhydride: Improved Synthesis and Application as a Selective Reducing Agent. *Inorg. Chem.* **2006**, *45*, 8807-8811.
44. Armando A. Diaz, Jackie D. Young, Masood A. Khan, Rudolf J. Wehmschulte. Facile Synthesis of Unsymmetrical 9-Phospha- and 9-Arsafluorenes. *Inorg. Chem.* **2006**, *45*, 5568-5575.
43. Suwen Liu, Rudolf J. Wehmschulte, Guoda Lian, Christopher M. Burba. Room temperature synthesis of silver nanowires from tabular silver bromide crystals in the presence of gelatin. *J. Solid State Chem.* **2006**, *179*, 696-701.
42. Suwen Liu, Rudolf J. Wehmschulte. Iron-Filled Nodule-Containing Carbon Nanotubes: A Novel Assembly of Carbon Nanostructures. *Carbon* **2005**, *43*, 1553-1558.
41. Jackie D. Young, Masood A. Khan, Rudolf J. Wehmschulte. Synthesis and characterization of an almost linear, quasi-two-coordinate, cationic diorganoaluminum compound. *Organometallics* **2004**, *23*, 1965-1967.

40. Suwen Liu, Rudolf J. Wehmschulte, Christopher M. Burba. Synthesis of Novel Nanostructured γ - Al_2O_3 by Pyrolysis of Aluminumoxyhydride – HAIO. *J. Mater. Chem.* **2003**, *13*, 3107-3111.
39. Rudolf J. Wehmschulte, Jared M. Steele, Masood A. Khan. Diterphenylgallium Alkyls and Hydride: Synthesis, Characterization and Reactivity. *Organometallics* **2003**, *22*, 4678-4684.
38. Suwen Liu, Ulrike Fooker, Christopher M. Burba, Margaret A. Eastman, Rudolf J. Wehmschulte. Synthesis and Characterization of Amorphous Nanostructured HAIO, a Novel Aluminumoxyhydride, *Chem. Mater.* **2003**, *15*, 2803-2808.
37. Rudolf J. Wehmschulte, Jared M. Steele, Jackie D. Young, Masood A. Khan. $[\text{2,6-Mes}_2\text{C}_6\text{H}_3]_2\text{Ga}^+\text{Li}[\text{Al}\{\text{OCH}(\text{CF}_3)_2\}_4]_2^-$ (Mes = 2,4,6-Me₃C₆H₂): A Compound Containing a Linear Unsolvated Two-Coordinate Gallium Cation, *J. Am. Chem. Soc.* **2003**, *125*, 1470-1471.
36. Rudolf J. Wehmschulte, Armando A. Diaz, Masood A. Khan. Unsymmetrical 9-Borafluorenes via Low-Temperature C-H Activation of *m*-Terphenylboranes, *Organometallics* **2003**, *22*, 83-92.
35. Suwen Liu, Jun Yue, Rudolf J. Wehmschulte. Large Thick Flattened Carbon Nanotubes. *Nano Lett.* **2002**, *2*, 1439-1442.
34. Michael C. Hodgson, Masood A. Khan, Rudolf J. Wehmschulte. Synthesis and Reactivity of Amidoaluminum Hydride Compounds as Potential Precursors to AlN, *J. Cluster Sci.* **2002**, *13*, 503-520.
33. Rudolf J. Wehmschulte, Brendan Twamley, Masood A. Khan. Synthesis and Characterization of an Unsolvated Dimeric Diarylmagnesium Compound and Its Magnesium Iodide Byproducts. *Inorg. Chem.* **2001**, *40*, 6004-6008.

32. Rudolf J. Wehmschulte, Masood A. Khan, Shawn I. Hossain. Reaction of *m*-Terphenyldichlorophosphanes with Sodium Azide: Synthesis and Characterization of Stable Azidocyclophosphazenes. *Inorg. Chem.* **2001**, *40*, 2756-2762.
31. Ulrike Fooker, Masood A. Khan, Rudolf J. Wehmschulte. Novel Aluminum Hydride Derivatives from the Reaction of H₃Al·NMe₃ with the Cyclosilazanes [Me₂SiNH]₃ and [Me₂SiNH]₄. *Inorg. Chem.* **2001**, *40*, 1316-1322.
30. Rudolf J. Wehmschulte, Masood A. Khan, Brendan Twamley, Berthold Schiemenz. Synthesis and Characterization of a Sterically Encumbered Unsymmetrical 9-Borafluorene, Its Pyridine Adduct and Its Dilithium Salt. *Organometallics*, **2001**, *20*, 844-849.

Primary Research Publications Originating from Research Performed Prior to Arrival at OU

29. Rudolf J. Wehmschulte, Philip P. Power. Primary alanes and alanates: useful synthetic reagents in aluminum chemistry. *Polyhedron* **2000**, *19*, 1649-1661.
28. R.J. Wehmschulte, P.P. Power. Reaction of cyclopentadienyl zirconium derivatives with sterically encumbered arylaluminum hydrides: X-ray crystal structure of (η⁵-C₅H₅)₂(H)Zr(μ²-H)₂Al(H)C₆H₂-2,4,6-Bu^t₃. *Polyhedron* **1999**, *18*, 1885-1888.
27. Rudolf J. Wehmschulte, Philip P. Power. Reaction of the Primary Alane (2,4,6-*t*-Bu₃C₆H₂AlH₂)₂ with Nitriles, Isonitriles, and Primary Amines. *Inorg. Chem.* **1998**, *37*, 6906-6911.
26. Rudolf J. Wehmschulte, Philip P. Power. Multiple Ga-Ga Bonding Character in Na₂{Ga(GaTrip₂)₃} and a Comparison with Neutral Ga(GaTrip₂)₃ (Trip = -C₆H₂-2,4,6-*i*-Pr₃). *Angew. Chem. Int. Ed. Engl.* **1998**, *37*, 3152-3154.

25. Rudolf J. Wehmschulte, Philip P. Power. Interaction of the bulky alane ($\text{H}_2\text{AlC}_6\text{H}_3\text{-2,6-Mes}_2$) ($\text{Mes} = \text{-C}_6\text{H}_2\text{-2,4,6-Me}_3$) with H_2EPh ($\text{E} = \text{N, P, or As}$). *New J. Chem.* **1998**, *22*, 1125-1130.
24. Rudolf J. Wehmschulte, Philip P. Power. Monomeric Alanes: Synthesis, Structure, and Thermolysis of $\text{Mes}^*\text{Al(H)N(SiMe}_3)_2$ and a One-Pot Synthetic Route to Mes^*_2AlH ($\text{Mes}^* = \text{-C}_6\text{H}_2\text{-2,4,6-}t\text{-Bu}_3$). *Inorg. Chem.* **1998**, *37*, 2106-2109.
23. Rudolf J. Wehmschulte, Philip P. Power. A new route to organoaluminium sulfides: synthesis of $(\text{Mes}^*\text{AlS})_2$ ($\text{Mes}^* = \text{-C}_6\text{H}_2\text{Bu}_3^t\text{-2,4,6}$) and its dimethyl sulfoxide adduct $[\text{Mes}^*\text{AlS(OSMe}_2)]_2$. *J. Chem. Soc., Chem. Commun.* **1998**, 335-336.
22. Rudolf J. Wehmschulte, Philip P. Power. Low Temperature Synthesis of Aluminum Sulfide as the Solvate $\text{Al}_4\text{S}_6(\text{NMe}_3)_4$ in Hydrocarbon Solution. *J. Am. Chem. Soc.* **1997**, *119*, 9566-9567.
21. Rudolf J. Wehmschulte, Philip P. Power. New Synthetic Route to Organo-Alumoxanes $(\text{RAIO})_n$: Synthesis of $(\text{Mes}^*\text{AlO})_4$ ($\text{Mes}^* = \text{-C}_6\text{H}_2\text{-2,4,6-}t\text{-Bu}_3$) and Its Reactions with AlR_3 ($\text{R} = \text{Me or Et}$). *J. Am. Chem. Soc.* **1997**, *119*, 8387-8388.
20. Rudolf J. Wehmschulte, Philip P. Power. Synthesis and Characterization of Lewis-Base Free, σ -Bonded Lithium Aryls: A Structural Model for Unsolvated Phenyllithium in the Solid State. *J. Am. Chem. Soc.* **1997**, *119*, 2847-2852.
19. Rudolf J. Wehmschulte, Warren J. Grigsby, Berthold Schiemenz, Ruth A. Bartlett, Philip P. Power. Synthesis and Characterization of Sterically Encumbered Derivatives of Aluminum Hydrides and Halides: Assessment of Steric Properties of Bulky Terphenyl Ligands. *Inorg. Chem.* **1996**, *35*, 6694-6702.

18. Rudolf J. Wehmschulte, Philip P. Power. New Routes to Synthetically Useful, Sterically Encumbered Arylaluminum Halides and Hydride Halides. *Inorg. Chem.* **1996**, *35*, 3262-3267.
17. Rudolf J. Wehmschulte, Philip P. Power. Synthesis and Structure of Mes*AlN(Ph)Al(Mes*)N(Ph)NPh: A Formal Aluminum-Nitrogen Analog of the Cyclopentadienide Ion. *Inorg. Chem.* **1996**, *35*, 2717-2718.
16. Rudolf J. Wehmschulte, Philip P. Power. Reactions of (H₂AlMes*)₂ (Mes*=2,4,6-*t*-Bu₃C₆H₂) with H₂EAr (Ar=N, P or As; Ar=aryl): Characterization of the Ring Compounds (Mes*AlNPh)₂ and (Mes*AlEPh)₃ (E=P or As). *J. Am. Chem. Soc.* **1996**, *118*, 791.
15. Josef Grobe, Hans-Hermann Niemeyer, Rudolf Wehmschulte. Alternative Ligands XXXIII: Heterobimetallic Donor-Acceptor Interactions in Si/Ni Cages: Metallosilatrane. P. 541 in *Organosilicon Chemistry II*, N. Auner, J. Weiss (Eds.), VCH Publishers Inc., New York 1996.
14. Rudolf J. Wehmschulte, Philip P. Power. Synthesis and Characterization of the σ -Bonded, Quasi-Linear, Metal (II) Diaryls MMes*₂ (M = Mg, Mn, or Fe; Mes*= 2,4,6-*t*-Bu₃C₆H₂-). *Organometallics* **1995**, *14*, 3264-3267.
13. J. Grobe, R. Wehmschulte, B. Krebs, M. Läge. Alternative Ligands XXXII. Novel Tetracosphosphine Nickel Complexes with Tripod-Ligands of the Type XM'(OCH₂PMe₂)_n(CH₂CH₂PMe₂)_{3-n} (M'= Si, Ge; n = 0-3). *Z. anorg. allg. Chem.* **1995**, *621*, 583-596.
12. Rudolf J. Wehmschulte, Karin Ruhlandt-Senge, Philip P. Power. Synthesis and Structure of Unassociated Mono-, Di- and Tri-Thiolate Derivatives of Aluminum and Gallium: An Investigation of Al-S and Ga-S π -Bonding. *Inorg. Chem.* **1995**, *34*, 2593-2593.

11. Rudolf J. Wehmschulte, Jeffrey J. Ellison, Karin Ruhlandt-Senge, Philip P. Power. New Base-Free Alanes and Gallanes. Synthesis and Characterization of Monomeric Mes^*_2GaH ($\text{Mes}^* = 2,4,6\text{-}t\text{-Bu}_3\text{C}_6\text{H}_2$), Dimeric $(\text{Trip}_2\text{MH})_2$ ($\text{Trip} = 2,4,6\text{-}i\text{-Pr}_3\text{C}_6\text{H}_2$; $\text{M} = \text{Al}$ or Ga) and Related Sterically Crowded Arylaluminum Species. *Inorg. Chem.* **1994**, *33*, 6300-6306.
10. Rudolf J. Wehmschulte, Philip P. Power. Synthesis and Characterization of $[\text{Mes}^*\text{AlH}_2]_2$ ($\text{Mes}^* = 2,4,6\text{-}t\text{-Bu}_3\text{C}_6\text{H}_2$): A Base-Free Arylalane. *Inorg. Chem.* **1994**, *33*, 5611-5612.
9. J. Grobe, N. Krummen, R. Wehmschulte, B. Krebs, M. Läge. Alternative Ligands XXXI. Nickel Carbonyl Complexes of Tripod-Ligands of the Type $\text{XM}'(\text{OCH}_2\text{PMe}_2)_n$ ($\text{CH}_2\text{CH}_2\text{PMe}_2$)_{3-n} ($\text{M}' = \text{Si}, \text{Ge}$; $n = 0\text{-}3$). *Z. anorg. allg. Chem.* **1994**, *620*, 1645-1658.
8. Rudolf J. Wehmschulte, Karin Ruhlandt-Senge, Philip P. Power. Synthesis and Characterization of Unassociated Aluminum Monophosphides. *Inorg. Chem.* **1994**, *33*, 3205-3207.
7. Penelope J. Brothers, Rudolf J. Wehmschulte, Marilyn M. Olmstead, Karin Ruhlandt-Senge, Sean R. Parkin, Philip P. Power. Synthesis, Structure, and Spectroscopic Characterization of Unassociated Mono-, Di-, and Triamido Derivatives of Aluminum and Gallium. *Organometallics* **1994**, *13*, 2792-2799.
6. Rudolf Wehmschulte, Karin Ruhlandt-Senge, Marilyn M. Olmstead, Mark A. Petrie, Philip P. Power. Evidence for π -Bonding in the Boron-Thiolate Compounds $(2,4,6\text{-Me}_3\text{C}_6\text{H}_2)_2\text{BSPH}$ and $(2,4,6\text{-}i\text{-Pr}_3\text{C}_6\text{H}_2)\text{B}(\text{SPh})_2$. *J. Chem. Soc. Dalton Trans.* **1994**, 2113-2117.
5. Karin Ruhlandt-Senge, Jeffrey J. Ellison, Rudolf J. Wehmschulte, Frank Pauer, Philip P. Power. Isolation and Structural Characterization of Unsolvated Lithium Aryls. *J. Am. Chem. Soc.* **1993**, *115*, 11353-11357.

4. Rudolf J. Wehmschulte, Karin Ruhlandt-Senge, Marilyn M. Olmstead, Hakon Hope, Bradley E. Sturgeon, Philip P. Power. Reduction of a Tetraaryldialane to Generate Al-Al π -Bonding. *Inorg. Chem.* **1993**, 32, 2983-2984.
3. K. M. Waggoner K. Ruhlandt-Senge, R. J. Wehmschulte, X. He, M. M. Olmstead, P. P. Power. Synthesis and Characterization of the Monomeric Gallium Monoamides t -Bu₂GaN(R)SiPh₃ (R = t -Bu, 1-Adamantyl), Trip₂MN(H)Dipp (M = Al, Ga; Trip = 2,4,6- i -Pr₃C₆H₂; Dipp = 2,6- i -Pr₂C₆H₃), and Trip₂GaNPh₂. *Inorg. Chem.* **1993**, 32, 2557-2561.
2. Mark A. Petrie, P. P. Power, H. V. Rasika Dias, Karin Ruhlandt-Senge, Krista M. Waggoner, Rudolf J. Wehmschulte. Synthesis and Characterization of Bulky Aryl Derivatives of the Heavier Main Group 3 Elements. *Organometallics* **1993**, 12, 1086-1093.
1. J. Grobe, R. Wehmschulte. Alternative Ligands XXX. Novel Tripod Ligands XM'(OCH₂PMe₂)_n(CH₂CH₂PMe₂)_{3-n} (M' = Si, Ge; n = 0 - 3) for Cage Structures. *Z. anorg. allg. Chem.* **1993**, 619, 563-575.

Book Chapters

3. Rudolf J. Wehmschulte. *Low Valent Organoaluminum (+I, +II) Species*. In *Topics in Organometallic Chemistry*. Simon Woodward, Samuel Dagonne, Eds. Springer Verlag Berlin Heidelberg, 2013, **41**, 91-124. DOI: 10.1007/3418_2012_34
2. Rudolf J. Wehmschulte. *Indium*. pp. 131-134. In *Radionuclides in the Environment*. David A. Atwood, Ed. John Wiley & Sons, Ltd., West Sussex, England, 2010.
1. Rudolf J. Wehmschulte. *Thallium*. pp. 135-138. In *Radionuclides in the Environment*. David A. Atwood, Ed. John Wiley & Sons, Ltd., West Sussex, England, 2010.

Organization of Meetings and Symposia

3. Co-organized with Prof. David Atwood, University of Kentucky, the Symposium “Main Group Organometallics: Fundamentals and Applications” at the Joint Southwest Southeast Regional ACS Meeting (SWRM/SERMACS) in New Orleans, Dec. 1-4, 2010.
2. Co-organized the annual Meeting “Organic Faculty of Florida” Mar. 7, 2009 at Florida Tech, Melbourne, FL.
1. Co-organized the annual Meeting “Organic Faculty of Florida” Mar. 1, 2008 at Florida Tech, Melbourne, FL.

Invited Conference Presentations:

Oral Presentation: Rudolf J. Wehmschulte. Synthesis and Structure of the First Bridgehead Silylium Ion. *Florida Annual Meeting and Exposition, FAME 2014*, May 8-10, 2014. Innisbrook, FL.

Oral Presentation: Rudolf J. Wehmschulte. Reactive Organometallics: Precursors and Catalysts. *Florida Annual Meeting and Exposition, FAME 2014*, May 8-10, 2014. Innisbrook, FL.

Oral Presentation: Rudolf J. Wehmschulte. Low-Coordinate Cationic Lewis Acids as Catalysts in Hydroamination and Hydrosilylation Reactions. *Florida Annual Meeting and Exposition, FAME 2012*, May 17-19, 2012. Innisbrook, FL.

Poster Presentation: Rudolf J. Wehmschulte. Lewis Acid Catalyzed Carbon Dioxide Reduction. *243rd ACS National Meeting*. March 25-29, 2012, San Diego, CA.

Oral Presentation: Rudolf J. Wehmschulte. Recent Advances in the Chemistry of Low-Coordinate Cationic Organoaluminum Compounds. *ACS 66th Southwest and 62th Southeastern Regional Meeting*. Dec. 1-4, 2010, New Orleans, LA.

Oral Presentation: Rudolf J. Wehmschulte. Strong Cationic Lewis Acids of groups 13 and 15. *ACS 60th Southeastern Regional Meeting*. November 12-15, 2008, Nashville, TN.

Oral Presentation: Rudolf J. Wehmschulte. Synthesis and Applications of Low-Coordinate Cationic Organoaluminum and -gallium Compounds. *ACS 34th Northeast Regional Meeting*. October 5-7, 2006, Binghamton, NY.

Oral Presentation: Jackie D. Young, Masood A. Khan, Rudolf J. Wehmschulte. Low-Coordinate Cationic Organoaluminum and -gallium Compounds. *229th ACS National Meeting*. March 13-17, 2005, San Diego, CA.

Oral Presentation: Rudolf J. Wehmschulte, Suwen Liu. From Aluminum Hydrides to Aluminum Oxides: Facile Non-Hydrolytic Methods for the Preparation of Nanostructured Aluminum Oxides. *ACS 59th Southeast Regional Meeting*. November 13-16, 2002, Charleston, SC.

Oral Presentation: Rudolf J. Wehmschulte, Armando A. Diaz, Masood A. Khan. Unsymmetrical 9-Bora- and 9-Phosphafluorenes: Synthesis, Characterization and Applications. *ACS 58th Southwest Regional Meeting*. November 3-6, 2002, Austin, TX.

Oral Presentation: Rudolf J. Wehmschulte, Dehalo- and Dehydrostannylation of Aluminum Amides: Model Systems for the Synthesis of Group 13/15 Semiconductors. *NSF Inorganic Chemistry Workshop*. May 31 -June 3, 2001, Traverse City, MI.

Oral Presentation: Rudolf J. Wehmschulte, Masood A. Khan, Brendan Twamley. Synthesis and Reactivity of Unsymmetrical 9-Borafluorenes. *221th ACS National Meeting*. April 1-5, 2001, San Diego, CA.

Conference Presentations:

Oral Presentation: Rudolf J. Wehmschulte. Cationic Organoaluminum Compounds as Strong Lewis Acids. *ACS 61th Southeastern Regional Meeting*. October 21-24, 2009, San Juan, PR.

Poster Presentation: Rudolf J. Wehmschulte. Synthesis of Sterically Encumbered Phenoxy Aluminum Hydrides and Their Conversion into Aluminoxanes. *Dalton Discussion 11: The Renaissance of Main Group Chemistry*. June 23-25, 2008, University of California, Berkeley, CA.

Poster Presentation: Rudolf J. Wehmschulte. Strong, Highly Reactive Cationic Lewis Acids in Synthesis and Catalysis. *Organometallic Gordon Research Conference*. July 8 - July 13, 2007, Salve Regina University, Newport, RI.

Oral Presentation: Suwen Liu, Rudolf J. Wehmschulte. Synthesis of Silver Nanowires from Tabular Silver Bromide Crystals in the Presence of Gelatin. *ACS 60th Southwest Regional Meeting*. September 29-October 2, 2004, Fort Worth, TX.

Oral Presentation: Rudolf J. Wehmschulte, Jared M. Steele, Jackie D. Young, Masood A. Khan. Linear two-coordinate organogallium cations: Synthesis, characterization, and reactivity. *225th ACS National Meeting*. March 23-27, 2003, New Orleans, LA.

Oral Presentation: Suwen Liu, Rudolf J. Wehmschulte. Reactive aluminum oxides from aluminum hydrides via nonhydrolytic syntheses. *225th ACS National Meeting*. March 23-27, 2003, New Orleans, LA.

Oral Presentation: Rudolf J. Wehmschulte, Masood A. Khan, Brendan Twamley. Synthesis and Reactivity of 9-Bora- and 9-Phosphafluorenes. *ACS 57th Southwest Regional Meeting*. October 17 -20, 2001, San Antonio, TX.

Oral Presentation: Rudolf J. Wehmschulte, Masood A. Khan. Coordination Properties of a Bulky Unsymmetrical 9-Borafluorene. *46th Annual Pentasectional Meeting, ACS Oklahoma Section*. March 3, 2001, Bartlesville, OK.

Oral Presentation: R.J. Wehmschulte, G.R. Young, M.A. Khan. Synthesis, characterization, and investigation of the coordination properties of unsymmetrical 9-bora- and 9-phosphafluorenes. *The International Chemical Congress of Pacific Basin Societies, Pacifichem*. 2000. Dec. 14-19, 2000, Honolulu, Hawaii.

Oral Presentation: U. Fooker, R. J. Wehmschulte, M.A. Khan. Low temperature route to Al-N and Al-O containing precursors for ceramic materials. *The International Chemical Congress of Pacific Basin Societies, Pacifichem 2000*. Dec. 14-19, 2000, Honolulu, Hawaii.

Oral Presentation: R. J. Wehmschulte, Gary R. Young, Masood A. Khan. Synthesis and Characterization of Unsymmetrical 9-Heterofluorenes. *45th Pentasectional Meeting of the American Chemical Society of Oklahoma*. April 2000, Stillwater, OK.

Oral Presentation: R. J. Wehmschulte, Gary R. Young, Masood A. Khan. Synthesis and Characterization of Unsymmetrical 9-Heterofluorenes. *219th National Meeting of the American Chemical Society*. March 2000, San Francisco, CA.

Poster Presentation: R. J. Wehmschulte, Gary R. Young, Masood A. Khan. Terphenyl Substituted Boranes (ArBH₂)₂ as Convenient Precursors to Boron Heterocycles. *Contemporary Inorganic Chemistry - II*. March 2000, College Station, TX.

Poster Presentation: R. J. Wehmschulte, Gary R. Young. Synthesis and Coordination Properties of Unsymmetrical 9-Borata- and Phosphafluorenes. *ACS Joint 55th Southwest and 15th Rocky Mountain Regional Meeting*. October 1999, El Paso, TX.

Poster Presentation: R. J. Wehmschulte, P.P. Power. Things to Do with Bulky Primary Alanes. *Organometallic Chemistry in the South Pacific, A Celebration*. Jan. 1999, Auckland, New Zealand.

Conference Presentations by Students and Postdocs

Oral Presentation: **Mahmoud M. Saleh**, Rudolf J. Wehmschulte. Activation of the CO₂ Molecule Using Cationic Organoaluminum and Gallium Species. *Florida Inorganic and Materials Symposium, FIMS 2014*. October 3-4, 2014. Gainesville, FL.

Poster Presentation: **Clint Price**, Rudolf J. Wehmschulte. Synthesis and Crystal Structures of Univalent Indium 1-Carba-Closo-Dodecaborate. *Florida Inorganic and Materials Symposium, FIMS 2014*. October 3-4, 2014. Gainesville, FL.

Poster Presentation: **Khalid Osman**, Rudolf J. Wehmschulte. Synthesis of Group 4 Amidinates and Their Catalytic Properties. *Florida Inorganic and Materials Symposium, FIMS 2014*. October 3-4, 2014. Gainesville, FL.

Oral Presentation: **Mahmoud M. Saleh**, Rudolf J. Wehmschulte. Activation of the CO₂ Molecule Using Cationic Organoaluminum and Gallium Species. *Florida Annual Meeting and Exposition, FAME 2014*, May 8-10, 2014. Innisbrook, FL.

Oral Presentation: **Clint Price**, Rudolf J. Wehmschulte. Synthesis of a New Titanium Complex for Photocatalysis. *Florida Annual Meeting and Exposition, FAME 2014*, May 8-10, 2014. Innisbrook, FL.

Poster Presentation: **Mahmoud M. Saleh**, Rudolf J. Wehmschulte. A DFT Study of the Intramolecular Hydroamination Reaction Catalyzed by Cationic Organoaluminum Compounds. *Florida Annual Meeting and Exposition, FAME 2012*, May 17-19, 2012. Innisbrook, FL.

Oral Presentation: **Manish Khandelwal**, Rudolf J. Wehmschulte. Deoxygenative Reduction of CO₂ to Methane, Phenylmethane (Toluene) and Diphenylmethane. *ACS 63rd Southeastern Regional Meeting*. Oct. 26-29, 2011. Richmond, VA.

Oral Presentation: **Manish Khandelwal**, Rudolf J. Wehmschulte. Synthesis of Low- Coordinated Cationic Aluminum Species and Reactivity Studies Towards Intramolecular Hydroamination. *ACS 66th Southwest and 62nd Southeastern Regional Meeting*. Dec. 1-4, 2010, New Orleans, LA.

Oral Presentation: **Manish Khandelwal**, Rudolf J. Wehmschulte. Intramolecular Hydroamination by Cationic Aluminum Species. *Florida Inorganic and Materials Symposium, FIMS 2010*. October 1-2, 2010. Gainesville, FL.

Oral Presentation: **Manish Khandelwal**, Rudolf J. Wehmschulte. Synthesis and Reactivity Studies of Low-Coordinated Aluminum Cations. *Florida Annual Meeting and Exposition, FAME 2010*, May 13-15, 2010. Innisbrook, FL.

Oral Presentation: **Manish Khandelwal**, Rudolf J. Wehmschulte. Synthesis, Isolation and Reactivity of Low-Coordinate Aluminum Cations. *Florida Inorganic and Materials Symposium, FIMS 2009*. October 2-3, 2009. Gainesville, FL.

Poster Presentation: **Manish Khandelwal**, Rudolf J. Wehmschulte. Synthesis and Characterization of Monomeric Aluminum Monoamides. *Florida Annual Meeting and Exposition, FAME 2009*, May 14-16, 2009. Kissimmee, FL.

Oral Presentation: **Sukesh Shekar**, Rudolf J. Wehmschulte. Synthesis of Monophenoxides and Alkoxy Titanium Azides as Precursors for Alumoxanes and Nitrogen-Doped Titania. *ACS 60th Southeast Regional Meeting*. November 12-15, 2008, Nashville, TN.

Oral Presentation: **Sukesh Shekar**, Rudolf J. Wehmschulte. Synthesis of Monophenoxides and Alkoxyazides as Precursors for Alumoxanes and Nitrogen-Doped Titanium Oxide. *Florida Inorganic and Materials Symposium, FIMS 2008*. September 12-13, 2008. Gainesville, FL.

Oral Presentation: **Sukesh Shekar**, Rudolf J. Wehmschulte. Synthesis of Monophenoxides

and Oxynitrides as Precursors for Alumoxanes and Nitrogen Doped Titanium Oxide. *Florida Annual Meeting and Exposition, FAME 2008*, May 8-10, 2008. Kissimmee, FL.

Poster Presentation: **Sukesh Shekar**, Mamie M. Taylor, Rudolf J. Wehmschulte. Conversion of Aryloxyaluminum Hydrides to Aryloxyalumoxanes (ArOAlO)_n. *Florida Annual Meeting and Exposition, FAME 2007*, May 10-12, 2007. Orlando, FL.

Poster Presentation: **Brij B. Tewari**, Sukesh Shekar, Rudolf J. Wehmschulte. Studies on the Reaction of Selected Organic Compounds with Aluminumoxyhydride. *Florida Annual Meeting and Exposition, FAME 2006*, May 11-13, 2006. Orlando, FL.

Oral Presentation: **Suwen Liu**, Rudolf J. Wehmschulte. Synthesis of Silver Nanostructures from AgBr Crystals in the Presence of Gelatin as a Template. *227th ACS National Meeting*, March 28-April 1, 2004. Anaheim, CA.

Oral Presentation: **Jackie D. Young**, Rudolf J. Wehmschulte, Masood A. Khan. Two-Coordinate Gallium Cations and Their Aluminum Analogues: Synthesis, Characterization, and Reactivity Studies. *227th ACS National Meeting*, March 28-April 1, 2004, Anaheim, CA.

Oral Presentation: **Suwen Liu**, Rudolf J. Wehmschulte. Iron-Filled Nodule-Containing Carbon Nanotubes. *ACS 59th Southwest Regional Meeting*. October 26-28, 2003. Oklahoma City, OK.

Oral Presentation: **Jackie D. Young**, Masood A. Khan, Rudolf J. Wehmschulte. Two-Coordinate Gallium Cations and their Aluminum Analogues: Synthesis, Characterization, and Reactivity Studies. *ACS 59th Southwest Regional Meeting*. October 26-28, 2003. Oklahoma City, OK.

Oral Presentation: **Armando A. Diaz**, Rudolf J. Wehmschulte, Masood A. Khan. Transition Metal Complexes of an Unsymmetrical 9-Phosphafluorene and Investigation of their

Catalytic Properties. *ACS 59th Southwest Regional Meeting*. October 26-28, 2003. Oklahoma City, OK.

Poster Presentation: Suwen Liu, Rudolf J. Wehmschulte Christopher Burba. Synthesis of Novel Nanostructured γ -Al₂O₃ by Pyrolysis of Aluminumoxyhydride–HAIO. *Oklahoma NSF EPSCoR Annual Conference, Network for Nanostructured Materials (NanoNet)*. May 15, 2003. Stillwater, OK.

Poster Presentation: Armando A. Diaz, Rudolf J. Wehmschulte, Masood A. Khan. Terphenylchlorogalliumsilyl- and stannylamides as Model Compounds for the Study of the Dehalosilylation and -stannylation Process to Form GaN. *Oklahoma NSF EPSCoR Annual Conference, Network for Nanostructured Materials (NanoNet)*. May 15, 2003. Stillwater, OK.

Oral Presentation: Suwen Liu, Rudolf J. Wehmschulte, Christopher Burba. Synthesis of Novel Nanostructured γ -Al₂O₃ by Pyrolysis of HAIO. *ACS 58th Southwest Regional Meeting*. November 3-6, 2002. Austin, TX.

Poster Presentation: Armando A. Diaz, Rudolf J. Wehmschulte, Masood A. Khan. Synthesis of Novel Unsymmetric 9-Phosphafluorenes and their Applications for Catalysis. *ACS 58th Southwest Regional Meeting*. November 3-6, 2002. Austin, TX.

Poster Presentation: Suwen Liu, Ulrike Fooker, Rudolf J. Wehmschulte. Synthesis and Characteristics of Amorphous (HAIO)_n Nanoparticles. *Oklahoma NSF EPSCoR Annual Conference, Network for Nanostructured Materials (NanoNet)* May, 16, 2002. Stillwater, OK.

Oral Presentation: Suwen Liu, Ulrike Fooker, Rudolf J. Wehmschulte. Synthesis and Characteristics of Amorphous (HAIO)_n Nanoparticles. *47th Annual Pentasectional Meeting, ACS Oklahoma Section*. March 9, 2002, Duncan, OK.

Poster Presentation: **Armando Diaz**, Jackie Young, Rudolf J. Wehmschulte. Synthesis of Chiral Phosphine Ligands and Their Future Applications to Catalytic Processes. *47th Annual Pentasectional Meeting, ACS Oklahoma Section*. March 9, 2002, Duncan, OK.

Poster Presentation: **Jackie Young**, Rudolf J. Wehmschulte. New Chiral Ligand Design and Applications to Catalytic Processes. *ACS 57th Southwest Regional Meeting*. October 17 -20, 2001 San Antonio, TX.

Poster Presentation: **Michael C. Hodgson**, Rudolf J. Wehmschulte. Reactions of Alanes with Stannazanes – Possible Low Temperature Route to Aluminum Nitride Ceramics. *Oklahoma EPSCoR NanoNet Workshop*. May 16, 2001, Oklahoma City, OK.

Poster Presentation: **Michael Hodgson**, Rudolf J. Wehmschulte, Ulrike Fooker, Masood A. Khan. Reactions of Alanes with Stannazanes – Possible Low Temperature Route to Aluminum Nitride Ceramics. *ACS 57th Southwest Regional Meeting*. October 17 -20, 2001 San Antonio, TX.

Oral Presentation: **Michael C. Hodgson**, Rudolf J. Wehmschulte, Ulrike Fooker, Masood A. Khan. Reactions of Alanes with Stannazanes - Possible Low Temperature Route to Aluminum Nitride Ceramics. *46th Annual Pentasectional Meeting, ACS Oklahoma Section*. March 3, 2001, Bartlesville, OK.

Poster Presentation: R. J. Wehmschulte, **Ulrike Fooker**, Masood A. Khan. Novel Aluminum Hydride Derivatives Formed by the Reaction of Alane Trimethylamine with Cyclosilazanes. *219th National Meeting of the American Chemical Society*. March 2000, San Francisco, CA.

Poster Presentation: R. J. Wehmschulte, **Gary R. Young**, Masood A. Khan. Synthesis and Reactivity Toward Early Transition Metal Halides of the 1-Mesityl-5,7,9-Trimethyl-9-Boratafluorenyl Dianion. *219th National Meeting of the American Chemical Society*. March 2000, San Francisco, CA.

Invited Lectures

R.J. Wehmschulte. Cationic Aluminum, Gallium and Zinc Compounds as Catalysts for the Reduction of CO₂ and Other Molecules. Louisiana State University, Baton Rouge, LA, April 8, 2014.

R.J. Wehmschulte. Cationic Aluminum and Zinc Compounds as Catalysts for the Reduction of CO₂ and Other Molecules. Université de Strasbourg, France, May 16, 2013.

R.J. Wehmschulte. Cationic Aluminum and Zinc Compounds as Catalysts for the Reduction of CO₂ and Other Molecules. University of North Florida, Jacksonville, FL, November 2, 2012.

R.J. Wehmschulte. Strong Cationic Lewis Acids of Groups 13. University of North Florida, Jacksonville, FL, September 24, 2009.

R.J. Wehmschulte. Strong Cationic Lewis Acids of Groups 13 and 15. University of Central Florida, Orlando, FL, January 26, 2009.

R.J. Wehmschulte. Strong Cationic Lewis Acids of Groups 13 and 15: Synthesis, Reactivity and Catalysis. Westfälische Wilhelms-Universität Münster, Germany, April 4, 2008.

R.J. Wehmschulte. Strong Cationic Lewis Acids of Groups 13 and 15: Synthesis, Reactivity and Catalysis. Johann Wolfgang von Goethe Universität Frankfurt, Germany, April 2, 2008.

R.J. Wehmschulte. Strong Cationic Lewis Acids of Groups 13 and 15: Synthesis, Reactivity and Catalysis. Technische Universität Berlin, Germany, March 27, 2008.

R.J. Wehmschulte. Modern Aluminum and Gallium Chemistry: Unusual Compounds, Catalysts and Materials. Barry University, Miami, FL, November 17, 2006.

R.J. Wehmschulte. Modern Aluminum and Gallium Chemistry: Unusual Compounds, Catalysts and Materials. Florida International University, Miami, FL, November 17, 2006.

R.J. Wehmschulte. From Two-Coordinate Cationic Aluminum and Gallium Compounds to Reactive Extended Materials. Some Examples of Modern Group 13 Chemistry. Texas A&M University, College Station, TX, April 21, 2004.

R.J. Wehmschulte. From Two-Coordinate Cationic Aluminum and Gallium Compounds to Reactive Extended Materials. Some Examples of Modern Group 13 Chemistry. University of California, Davis, CA, December 4, 2003.

R.J. Wehmschulte. Synthesis and Coordination Properties of Unsymmetrical 9-Bora- and 9-Phosphafluorenes. Syracuse University, NY, April 2, 2002.

R.J. Wehmschulte. Synthesis and Coordination Properties of Unsymmetrical 9-Bora- and 9-Phosphafluorenes. University of Rochester, NY, April 1, 2002.

R.J. Wehmschulte. Darstellung und Koordinationsverhalten von unsymmetrischen 9-Heterofluorenen. Technische Universität Berlin, Germany, June 14, 2000.

R.J. Wehmschulte. Darstellung und Koordinationsverhalten von unsymmetrischen 9-Heterofluorenen. Westfälische Wilhelms-Universität Münster, Germany, June 20, 2000.

R.J. Wehmschulte. Darstellung und Koordinationsverhalten von unsymmetrischen 9-Heterofluorenen. Ruhruniversität Bochum, Germany, June 21, 2000.

Conference Presentations (prior to arrival at OU):

Oral Presentation: R. J. Wehmschulte, P.P. Power. Convenient Functionalization of Aluminum Hydrides with Silanes. *214th National Meeting of the American Chemical Society*. Sept. 1997, Las Vegas, NV.

Oral Presentation: R. J. Wehmschulte, P.P. Power. Synthesis and Reactivity of the Novel Alumoxane [Mes*AlO]₄. *213th National Meeting of the American Chemical Society*. Apr. 1997, San Francisco, CA.

Poster Presentation: K. Ruhlandt-Senge, J. J. Ellison, R. J. Wehmschulte, P. P. Power. Isolation and Structural Characterization of Unsolvated Lithium Aryls. *49th Southwest Regional Meeting of the American Chemical Society*. Oct. 1993, Austin, TX.