

Rudolf Wehmschulte
Assistant Professor

(i) Professional Preparation

Ruhruniversität Bochum	Chemistry	Vordiplom, 1985
Westfälische Wilhelms-Universität Münster	Chemistry	Diplom, 1988
Westfälische Wilhelms-Universität Münster	Inorganic Chemistry	Dr. rer. nat., 1991
University of California, Davis	Inorganic Chemistry	1992-1998

(ii) Appointments

1998 - present	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	Teaching Assistant, Institut für Anorganische Chemie Westfälische Wilhelms Universität Münster, Germany

(iii) Publications.

(i) Five publications most closely related to the proposed project

1. Suwen Liu, Rudolf J. Wehmschulte, Christopher M. Burba. Synthesis of Novel Nanostructured γ -Al₂O₃ by Pyrolysis of Aluminumoxyhydride – HAIO. *J. Mater. Chem.* **2003**, *13*, 3107-3111.
2. 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.
3. Suwen Liu, Jun Yue, Rudolf J. Wehmschulte. Large Thick Flattened Carbon Nanotubes. *Nano Lett.* **2002**, *2*, 1439-1442.
4. 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.
5. Ulrike Fooker, Masood A. Khan, and 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.

(ii) Five other significant publications

1. Rudolf J. Wehmschulte, Jared M. Steele, Jackie D. Young, Masood A. Khan. [2,6-Mes₂C₆H₃]₂Ga⁺Li[Al{OCH(CF₃)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.

- Rudolf J. Wehmschulte, Jared M. Steele, Masood A. Khan. Diterphenylgallium Alkyls and Hydride: Synthesis, Characterization, and Reactivity. *Organometallics* **2003**, *22*, 4678-4684.
- 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.
- Rudolf. J. Wehmschulte, Masood A. Khan, Brendan Twamley and Berthold Schiemenz. Synthesis and Characterization of a Sterically Encumbered Unsymmetrical 9-Borafluorene, Its Pyridine Adduct and Its Dilithium Salt. *Organometallics*, **2001**, *20*, 844-849.
- 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.

(iv) Synergistic Activities.

Attraction of minorities: one hispanic undergraduate co-worker (Armando Diaz).
Attraction and training of several undergraduates per year.

(v) Collaborators & Other Affiliations

(a) Collaborators. There are no other collaborators.

(b) Graduate and Postdoctoral Advisors.

Dr. Josef Grobe, Westfälische Wilhelms-Universität Münster, Germany (emeritus).
Dr. Philip P. Power, University of California, Davis.

(c) Thesis Advisor and Postgraduate-Scholar Sponsor.

Jackie D. Young, Gary R. Young, Dr. Ulrike Fooker, Dr. Michael Hodgson, Dr. Suwen Liu (all University of Oklahoma).