

Laurel Reitfort

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EDUCATION

- Doctorate of Philosophy, Inorganic Chemistry** (in progress) Aug. 2002-present
University of Florida, Gainesville, Florida
- Bachelor of Science, Chemistry** December 2001
University of North Carolina at Chapel Hill, Chapel Hill, North Carolina

PUBLICATIONS

- Tungsten Allylimido Complexes $Cl_4(RCN)W(NC_3H_5)$ as Single-Source CVD Precursors for WN_xC_y Thin Films. Correlation of Precursor Fragmentation to Film Properties. Bchir, O. J.; Green, K. M.; Ajmera, H. M.; Zapp, E. A.; Anderson, T. J.; Brooks, B. C.; **Reitfort, L. L.**; Powell, D. H.; Abboud, K. A.; McElwee-White, L.; *J. Am. Chem. Soc.*; **2005**; *127*(21); 7825-7833.
- Synthesis and Structural Investigation of Tungsten Imido Amidinate and Guanidinate Complexes. Wilder, C. B.; **Reitfort, L. L.**; Abboud, K. A.; McElwee-White, L.; *Inorg. Chem.*; **2006**, 263-268.
- (Acetonitrile)tetrachlorotungsten Imido Complexes. **Reitfort, L.L.**; Wilder, C.B.; McElwee-White, L., *Inorganic Syntheses*, in press.

EXPERIENCE

Research Assistant Feb. 2003 - present

University of Florida, Gainesville, Florida, Thesis Advisor: Dr. Lisa McElwee-White

- Planned and performed the multi-step synthesis of air and moisture sensitive organometallic complexes
- Developed organometallic precursors for deposition of WN_x thin films by Chemical Vapor Deposition
- Utilized various instruments (IR, UV/Vis, NMR and Glove Box) during synthesis and characterization
- Participated in weekly group and collaborator meetings

Research Assistant Aug. 2004 – present

University of Florida, Gainesville, Florida, Center for X-ray Crystallography, Dr. Khalil Abboud

- Structure determination by X-ray diffraction
- Lab support work

Student Assistant 2005/2006

American Crystallographic Association

- Local Committee, 2005 ACA Meeting
- Web Designer, 2005 & 2006 ACA Meeting

Teaching Assistant Aug. 2002 – Dec. 2003

University of Florida, Gainesville, Florida

- Taught general chemistry discussion and labs of 60 students per semester
- Implemented safety protocols for undergraduate lab experiments

Laboratory Technician Sept. 2001 – July 2002

Research Triangle Institute, Research Triangle Park, N.C.

- Lab support work in a trace metals lab
- Ion Chromatography
- Development of data analysis program using Corel Quattro Pro

Undergraduate Research Assistant Jan. 2001 – Dec. 2001

UNC-Chapel Hill, Chapel Hill, North Carolina, Dr. Joseph Templeton

- Performed multi-step synthesis of air and moisture sensitive organometallic complexes
- Research Project: "Preparation of High Oxidation State Heteroatom Substituted Tungsten Carbene Complexes."

AFFILIATIONS

American Chemical Society, Inorganic Chemistry Division
American Crystallographic Association

SKILLS

Computer: Microsoft Office Suite, Frontpage, SciFinder, ChemDraw, SHELX, Beilstein/Gmelin, SigmaPlot, Mathcad, Webpage Development, Corel Quattro Pro

Instruments: NMR, IR, UV-Vis, Glove Box, XRD, Ion Chromatography

AWARDS

Grinter Fellowship, University of Florida, 2002-2004