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Education

1999-present

Iowa State University (ISU), Ames, IA

Ph.D./Physical Chemistry, Expected: May 2004, 3.95/4.00 GPA

1995-1999

Minot State University (MSU), Minot, ND

B.A./Chemistry and Math, Physics minor, May 1999, 4.00/4.00 GPA

Relevant Experience

Research

2000-present

Iowa State University/Ames Laboratory (DOE), Ames, IA

Graduate Research Assistant, Advisor: Mark Gordon

- Coupling of Molecular Dynamics with the Effective Fragment Potential Method in GAMESS
- Vibrational Self-Consistent Field calculations
- Electronic structure/dynamic reaction coordinate calculations on isomers of FN₅

Summer 1998

Ames Laboratory/Iowa State University, Ames, IA

DOE Energy Research Undergraduate Laboratory Fellow, Advisor: Mark Gordon

- Theoretical study of reactions and structures of novel iridium-thiophene complexes

1997-1998

Minot State University, Minot, ND

Undergraduate Research Assistant, Advisor: David R. Gano

- Theoretical study of structures of novel iridium-thiophene complexes

Teaching

1999-2000

Iowa State University, Ames, IA

Teaching Assistant: General Chemistry for engineers and science majors

Publications

Netzloff, H.M., Gano, D.R., and Gordon, M.S. "Hydrodesulfurization of thiophene in petroleum: The role of novel iridium complexes as precursors" [Abstract], ND Academy of Science Meeting (1999).

Presentations

March 2001

"Molecular Dynamics and the Effective Fragment Potential Method", Mark Gordon group meeting, Ames, IA

April 1999

"Hydrodesulfurization of thiophene in petroleum: The role of novel iridium complexes as precursors", ND Academy of Science Undergraduate Research Competition, University of North Dakota, Grand Forks, ND

February 1999

"Hydrodesulfurization of thiophene in petroleum: The role of novel iridium isomers of Cp*Ir(2,5-dimethylthiophene) as precursors", Senior seminar, Division of Science, Minot State University, Minot, ND

November 1998

"Novel iridium complexes: Reactions and structures of ⁴⁻ and ²⁻ isomers of Cp*Ir(thiophene)", DOE Energy Research Undergraduate Fellowship poster sessions at DOE facilities, Germantown, MD and Washington, D.C.

Honor and Award Highlights

2000-present

Computational Science Graduate Fellowship, DOE/Krell Institute

2000-present

Arthur P. Hellwig Fellowship, ISU Chemistry Department

1999-present

Miller Fellowship, ISU

May 1999

Commencement Speaker, Minot State University

April 1999

First place, ND Academy of Science Undergraduate Research Competition

1998-1999

Barry M. Goldwater Scholarship, Barry M. Goldwater Foundation

1998-1999

Senior Merit Award, MSU College of Arts & Sciences, Division of Science

Affiliations

2000-present

American Chemical Society, member, Division of Physical Chemistry, Subdivision of Theoretical Chemistry

2001-present

Graduate Student Senator, member, ISU

2001-present

Student Faculty Liaison Committee, member, ISU Chemistry Department

2000-present

Iota Sigma Pi, Aurum Chapter, member and co-president