

# Cammi Stry

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## EDUCATION:

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| <b>University of Minnesota</b> , Minneapolis, Minnesota<br>Ph.D., Chemistry<br>Emphasis on Materials and Physical Chemistry | Expected July 2006 |
| <b>Carroll College</b> , Waukesha, Wisconsin<br>B.S., Chemistry<br>Minors in Mathematics and Physics                        | 2001               |
| <b>University of Wisconsin - Manitowoc</b> , Manitowoc, Wisconsin<br>A.A.S., Emphasis on Chemistry                          | 1999               |

## TEACHING EXPERIENCE:

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| <b>Tutoring</b> , ACES program, University of Minnesota<br>Tutored general chemistry to underrepresented students with goals of admission to graduate or medical school.   | 2002-present |
| <b>Teaching Internship</b> , Department of Chemistry, University of Minnesota<br>Taught eight Chemistry 1021 and 1022 (general) lectures under guidance of Profs. Louis Pignolet and Doreen Leopold, facilitated online discussions, wrote exam questions, managed lecture demonstrations. | 2003-2004    |
| <b>Undergraduate Researcher Mentor</b> , University of Minnesota<br>Planned 16-week research project for an undergraduate student to perform, trained student in laboratory procedures, oversaw his work throughout semester, gave guidance for final report.                              | Fall 2003    |
| <b>General Chemistry Teaching Assistant</b> , University of Minnesota<br>Taught laboratory sessions, gave pre-lab lectures, aided with lab setup, explained general chemistry concepts and quantitative approaches to undergraduate students, held office hours, graded homework.          | 2001-2003    |
| <b>General Chemistry Teaching Assistant</b> , Carroll College<br>Prepared lab chemicals and supplies, taught general chemistry concepts and quantitative approaches, graded homework.  | 2000-2001    |

<b>Group Tutoring</b> , Carroll College Facilitated group learning environment modeled after discussion sections, taught general chemistry concepts and problem-solving skills to students, encouraged cooperative learning among participants.	1999-2001
<b>Individual Tutoring</b> , Carroll College Tutored mathematics concepts and problem-solving skills to high school students, challenged students beyond limits of coursework.	1999-2001
<b>College for Kids teacher</b> , University of Wisconsin - Manitowoc Facilitated weeklong workshop for elementary students with Prof. Katherine Bichler, fostered cooperative learning among participants.	1998

**RESEARCH EXPERIENCE:**

<b>Thesis Research</b> , University of Minnesota Advisor: R. Lee Penn Investigating the reductive dissolution of iron oxyhydroxide nanoparticles using quinones. Notable techniques: X-ray diffraction, transmission electron microscopy, high performance liquid chromatography. Strong writing and presentation skills.	2002-present
<b>Undergraduate Research</b> , Carroll College Advisor: Michael D. Schuder Studied the Ar-CO van der Waals complex via the rovibrational spectrum acquired through use of a Pb-diode laser and a pulsed slit jet expansion. Notable techniques: building optics table, aligning IR laser.	2000-2001

**AWARDS, HONORS, AND GRANTS:**

University of Minnesota Graduate and Professional Student Assembly Travel Grant	2005
American Chemical Society Division of Geochemistry Travel Grant	2004
University of Minnesota Dept. of Chemistry Teaching Internship Award	2003-2004
University of Minnesota Dept. of Chemistry Teaching Assistant Award Awarded to top three teaching assistants in department each year.	2003
Carroll College Chemistry Award: Outstanding Student in Chemistry Awarded to one student in the Chemistry department each year.	2001
Wisconsin Space Grant Consortium Undergraduate Research Award Funding for a proposed undergraduate research project.	2000
Carroll College Analytical Chemistry Award Awarded to top student in Analytical Chemistry each year.	2000
Carroll College President's Scholarship	1999-2001
John C. Zola Scholarship	1997-2001

**PROFESSIONAL DEVELOPMENT:**

NSF Center for Workshops in Chemical Sciences, participant <i>Materials Science and Nanotechnology for Chemists</i> , Beloit College, Beloit, WI, July 24-29, 2005. Learned to teach chemistry concepts and labs using a materials science foundation, used SEM and STM.	2005
229th American Chemical Society National Meeting, San Diego, CA, USA	2005
227th American Chemical Society National Meeting, Anaheim, CA, USA	2004
U of M Dept. of Chemistry Academic Careers Workshops, participant	2004-2005
26th Annual Midwest Environmental Chemistry Workshop, Iowa City, IA, USA	2003
Great River Regional ACS Meeting, Minneapolis, MN, USA	2002
U of M Teaching and Learning Services Workshops, participant	2001-2004
11th Wisconsin Space Grant Consortium Conference, Whitewater, WI, USA	2001
221st American Chemical Society National Meeting, San Diego, CA, USA	2001

**COMMITTEE WORK/INSTITUTIONAL SERVICE:**

Graduate Student Workshop Committee, member/organizer	2005-present
Society of Women Engineers, helper Ran chemistry demos with Prof. Doreen Leopold for 100 Girl Scouts.	2002-present
Women in Science and Engineering, member/organizer Co-organized annual career workshops, wrote grant, presented seminar, planned science workshops for middle school girls.	2001-present
U of M Chemistry Department Outreach Organization Presented demos at Minnesota State Fair	2002-2003
Carroll College Chemistry Club, member President	1999-2001 2000-2001
Presented NCW demos at local science museum, planned daylong workshop for families, judged science fair projects, ran food drive.	
University of Wisconsin - Manitowoc Chemistry Club, Co-president Established organization, wrote bylaws, presented demos to public.	1998-1999
University of Wisconsin - Manitowoc chapter of Phi Theta Kappa, member Planned Earth Day events, cleaned highway, recruited charity donations.	1998-1999

**PROFESSIONAL MEMBERSHIPS:**

American Chemical Society, member	1999-present
Phi Theta Kappa, member	1998-present

**PUBLICATIONS:**

- Stry, Cammi,** and Penn, R. Lee. Reduction of crystalline iron(III) oxyhydroxides using hydroquinone: Influence of phase and particle size. *Geochemical Transactions*, 2005, 6, (3), 60-66.
- Johnson, Ramona L., **Stry, Cammi,**, Smolen, Jean M., Simcik, Matt F., and Penn, R. Lee. The adsorption of perfluorooctane sulfonate onto sand, clay, and iron oxide surfaces. *Journal of Chemical and Engineering Data*, 2006, submitted.
- Guyodo, Y., LaPara, T. M., **Stry, Cammi,**, Penn, R. L., Banerjee, S. K., Geiss, C. E., Zanner, C. W. Rock magnetic, chemical and bacterial community analysis of a modern soil from Nebraska. *Earth and Planetary Science Letters*, 2006, submitted.

**PRESENTATIONS:**

\* Indicates poster presenter, \*\* Indicates oral presenter

- Penn, R. Lee\*\*; **Stry, Cammi,**; Burluson, David.; Mostrom, Alison P.; Guyodo, Yohan; Banerjee, Subir; Oriented aggregation and chemical reactivity: The case of goethite (FeOOH) nanoparticles.; 225th American Chemical Society National Meeting, New Orleans, LA, USA, March 23-27, 2003.
- Stry, Cammi,\***; Penn, R. Lee; Reduction of crystalline iron(III) oxyhydroxides: Influence of phase and particle size.; Midwestern Association of Chemistry Teachers in Liberal Arts Colleges Annual Meeting, Appleton, WI, USA, October 28-29, 2005.
- Stry, Cammi,\*\***; Erbs, Jasmine J.; Jentzsch, Teresa L.; Penn, R. Lee; Reactivity of ferrihydrite nanoparticles: Effects of synthetic variables.; 229th American Chemical Society National Meeting, San Diego, CA, USA, March 13-17, 2005.
- Stry, Cammi,\*\***; Penn, R. Lee; Size dependent reactivity of iron(III) oxyhydroxide nanoparticles.; 227th American Chemical Society National Meeting, Anaheim, CA, USA, March 28-April 1, 2004.
- Stry, Cammi,\*\***; Penn, R. Lee; Evaluating Size-Dependent Reactivity of Iron Oxyhydroxide Nanoparticles Using Hydroquinone.; 26th Annual Midwest Environmental Chemistry Workshop, Iowa City, IA, USA, October 11-12, 2003.
- Stry, Cammi,\*\***; Gehrung, Robert L.; Schuder, Michael D.; Investigation of the rotational temperature and rovibrational spectrum of the Ar-CO van der Waals complex formed in a pulsed slit jet expansion.; 11th Wisconsin Space Grant Consortium Conference, Whitewater, WI, USA, August 16-17, 2001.
- Stry, Cammi,\***; Gehrung, Robert L.\*; Schuder, Michael D.; Determination of the rotational temperature and rovibrational spectrum of the Ar-CO van der Waals complex formed in a pulsed slit jet expansion.; 221st American Chemical Society National Meeting, San Diego, CA, USA, April 1-5, 2001.

**REFERENCES:****Prof. A. Bcde**

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**Prof. F. Ghijk**

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**Prof. L. Mnop**

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