

Oct 2010

## CURRICULUM VITAE

# Paul Timothy Jackson

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### EDUCATION

University of Minnesota, Minneapolis, MN      Ph.D. in Analytical/Organic Chemistry      1992-1997  
St. Olaf College, Northfield, MN      B.A. in Chemistry      1988-1992  
Ph.D. Thesis: Chemically Modified Zirconia: Synthesis and Evaluation of Novel High Performance Liquid Chromatographic Materials. Advisors: Dr. Peter W. Carr and Dr. Thomas R. Hoye

### EMPLOYMENT

- Chair, Environmental Studies Department, St. Olaf College, (2008-present):
- Associate Professor, Chemistry Department, St. Olaf College, (2005-present):
- Assistant Professor, Chemistry Department, St. Olaf College, (1999-2005):  
Teaches general, analytical, and environmental chemistry and introduction to environmental studies. Directs independent undergraduate research related to the determination of contaminants in rural river watersheds, the development of green chemistry teaching methods, understanding retention on reversed-phase liquid chromatographic stationary phases and the development rapid analysis methods for wetland waters.
- Camille and Henry Dreyfus Postdoctoral Fellow, Chemistry Department, *St. Olaf College*, (1997-1999):  
Post-doctoral work with John P. Walters included: teaching analytical chemistry, analytical and general chemistry laboratories; research related to the development of a clinical chemistry laboratory to evaluate the role-playing teaching method; and directing independent undergraduate research.
- Research Scientist, *SarTec Corporation*, Anoka, MN (Summer 1997)  
Laboratory work with company founder, Clayton V. McNeff, investigated the commercialization of zirconia based HPLC phases and the organization of a materials synthesis/analytical laboratory for evaluating products.

### TEACHING

St. Olaf College

<u>Term</u>	<u>Course #</u>	<u>Course Description</u>
F99, F01, F03	Chem 121	General Chemistry (including lab)
F00	Chem 125	Structural Chemistry & Equilibria (including lab)
F97-98, S00-04, F04, F08, S10, F10	Chem 255	Analytical Chemistry
F97-98, S00-04, F04, F08, S10, F10	Chem 256	Analytical Chemistry Laboratory
J01, J04, J05, J06, J09, J11	Chem 119/124	Environmental Chemistry & Lab (course focused on environmental chemistry of green buildings 04-06)
J03	IS 207	Rational Risk Assessment
S04, S05, S07, S09	ES 137	Introduction to Environmental Science
S04	Chem 126 Lab	Energies and Rates of Chemical Reactions
S05	Chem 391	Environmental Analytical Chemistry
S08	Bio 226	Environmental Science in Australia (Int'l Study)
F09	CHBI 125	Integrated Chemistry & Biology I
S10	Chem 390	Literature of Chemistry: Green Chemistry
S11	EnvSt 399	Senior Capstone Seminar

## PROFESSIONAL & DEVELOPMENT ACTIVITIES

- *Integrated Introductory Biology and Chemistry Working Group*, Member of interdepartmental faculty team supported by an HHMI award. Working group developed strategy to assess current introductory courses in biology and chemistry and propose a strategy to integrate educational activities in the two departments at the introductory majors level. (Spring 2004-present)
- *Faculty Workshop Coordinator*, “Moving Campus Sustainability Forward through Collaborative Student-Faculty-Staff Projects” Midstates Consortium for Math and Science, Northfield, MN, October 2-4, 2009, Planned, coordinated and presided at three day symposium.
- *Consultant, Science Museum of Minnesota*, Worked with the Teacher Programs leadership of the Science Museum of Minnesota to help plan renovations of the sustainable *Science House* facility into a K-12 science teacher resource space, including design of a small test laboratory facility. (October 2006-2008)
- *Faculty Workshop Coordinator*, “Interdisciplinary Teaching and Learning: Can Introductory Science Teaching and Learning be Interdisciplinary within the Natural Sciences and Mathematics?” PEW Midstates Mathematics and Science Consortium, Northfield, MN, October 7-9, 2005, Planned, coordinated and presided at three day symposium.
- *Chair, Minnesota Chromatography Forum Undergraduate Award Committee* (2003-2007)
- *Faculty Mentor*, Preparing Future Faculty program, University of Minnesota. Assisted a PFF participant by providing ways to examine a variety of institutional contexts in higher education, to gain valuable teaching experience at St. Olaf College, to explore the faculty role beyond the classroom, and to develop a job search portfolio.
- *Peer Reviewer*, Average three reviews per year for the following scientific journals and organizations: *Journal of Chromatography*, *Journal of Chemical Education*, *Environmental Science and Technology*, *Analytica Chimica Acta*, *Advances in Environmental Research*, *National Science Foundation*, *American Chemical Society - Petroleum Research Fund* (1999-present).
- *Web site reviewer* for National Science Foundation funded Analytical Sciences Digital Library project (ASDL, [www.asdlib.org](http://www.asdlib.org)). The project will result in the creation of a meta-website that has links to other sites related to analytical chemistry and the teaching thereof (2003-present).
- *Invited consultant*, School of Environmental Studies at the Minnesota Zoo, Apple Valley, MN. Evaluated student presentations related to chemical toxicology and environmental issues - March 24, 2004.
- *Session Presider*, The Pittsburgh Conference 2004, Chicago, IL, March 7-12, 2004.
- *Symposium Coordinator*, The Pittsburgh Conference 2003, Orlando, FL, March 9-14, 2003, Planned, coordinated and presided at full-day symposium titled “High Stability/Novel Phases for HPLC”.
- *Director, Minnesota Chromatography Forum* (2000-2003), Governing board member of a regional scientific society committed to the advancement of chromatography. Since its founding in 1978, the MCF has provided area chromatographers with the opportunity to expand their knowledge in the separation sciences in a variety of ways. Directors coordinate quarterly professional meetings and provide oversight to operations of society, including a spring conference.

## PROFESSIONAL MEMBERSHIPS & HONORS

Project Kaleidoscope, Faculty for the 21 <sup>st</sup> Century	2002-present
Council on Undergraduate Research	1998-2005
American Chemical Society	1993-present
Minnesota Chromatography Forum	1993-present
Phi Beta Kappa	1992-present

## PUBLICATIONS

1. Walczak, M.W.; Jackson, P.T.; "Incorporating Information Literacy Skills into Analytical Chemistry: An Evolutionary Step," *J. Chem. Educ.* **2007**, *84*(8), 1385-1390.
2. Jackson, P.T.; Walczak, M.W.; "Incorporating Scientific Communication into Summer Research through a Weekly Workshop Series," *CUR Quarterly*, **2005**, *25*(3), 132-137.
3. Jackson, P.T.; Carr, P.W.; "A Study of Polar and Nonpolar Substituted Benzenes and Aromatic Isomers on Carbon Coated Zirconia and Alkyl Bonded Phases," *J. Chromatogr. A* **2002**, *958*, 121-129.
4. Jackson, P.T.; Walters, J.P. "Role-Playing in Analytical Chemistry I: The Alumni Speak," *J. Chem. Ed.* **2000**, *77*(8), 1019-1025.
5. Jackson, P.T.; Carr, P.W. "Improving Reversed-Phase Liquid Chromatography," *CHEMTECH*, **1998**, *28*(10), 29-37.
6. Jackson, P.T.; Kim, T-Y.; Carr, P.W. "Diastereomeric Selectivity of Carbon Coated Zirconia Reverse-Phase Liquid Chromatographic Media," *Anal. Chem.* **1997**, *69*, 5011-5017.\*\*
7. Jackson, P.T.; Carr, P.W.; Schure, M.R.; Weber, T.P. "Intermolecular Interactions Involved in Solute Retention on Carbon Media in Reversed-Phase High-Performance Liquid Chromatography," *Anal. Chem.* **1997**, *69*, 416-425.
8. Weber, T.P.; Jackson, P.T.; Carr, P.W. "Chromatographic Evaluation of Carbon-Clad Porous Zirconia Microparticles," *Anal. Chem.* **1995**, *67*, 3042-3050.

\*\* denotes papers and presentations with undergraduate authors

### OTHER PUBLICATIONS

1. Rovner, S. L. "Where are They Now?" *Chem. Eng. News* **2004**, *82*(25), 36-40. Interviewed and quoted in article.
2. Jackson, P.T. "Keeping the Faith" in *Academic Disciplines: Friends of Faith?*, St. Olaf College, Northfield, MN, 2003.
3. Wilkinson, S. L. "Starting from Scratch: New Professors Share Their Experiences," *Chem. Eng. News* **2000**, *78*(25), 41-47. Interviewed and quoted in article.

### INVITED PRESENTATIONS

1. Green Chemistry, Green Buildings and Green Campus Workshop, July 30, 2010, Northfield, MN, BOLDT/PKAL Learning Spaces Collaboratory, "The Impacts of Green Chemistry on the Design, Construction & Operation of Undergraduate Science Facilities" Paul T. Jackson
2. 2009 UmYahYah on the Road, April 16, 2009 Minneapolis, MN and May 5, 2009 Seattle, WA. "Exploring Environmental CheMysteries: How Unintended Consequences Challenge our Ideals and Actions" Paul T. Jackson
3. 2009 Minnesota Analytical Professors, April 3, 2009, Northfield, MN. "Exploring a 'Building as Teacher:' Regents Hall of Natural Science" Paul T. Jackson
4. 2007 Minnesota Air, Water & Waste Environmental Conference, Feb 28-Mar 1, 2007, Bloomington, MN. "Green Chemistry in Undergraduate Science Education: A Case Study at St. Olaf College." Paul T. Jackson.
5. Zumbro Watershed Partnership, Oronoco, MN, January 11, 2007, "The Cannon River Watershed & What Your Cup of Coffee Reveals," Paul T. Jackson.
6. Programmatic Adult Christian Education Forum, United Redeemer Lutheran Church, Zumbrota, MN, April 2, 2006, "Caring for Creation and the Greening of Science," Paul T. Jackson.
7. Cannon River Watershed Partnership Volunteer Recognition, Northfield, MN, December 11, 2004, "The Cannon River Watershed & What Your Cup of Coffee Reveals," Paul T. Jackson.
8. The Pittsburgh Conference 2004, Chicago, IL, March 7-12, 2004, "Carbonaceous RPLC Stationary Phases Based on Porous Zirconia: Stability is the Name, Selectivity is the Game," Paul T. Jackson.
9. Exploring Vocation and Academic Careers – A Conference for Undergraduate Students, Gainey Center, Owatonna, MN, October 24-26, 2003. Faculty Panel Member.
10. Project Kaleidoscope 10x10 Minnesota Assembly, University of St. Thomas, St. Paul, MN, October 10-12, 2003, Workshop: "A View from the Trenches: Teaching Analytical Chemistry via Role-Playing," Paul T. Jackson.
11. The Pittsburgh Conference 2003, Orlando, FL, March 9-14, 2003, "RPLC Retention Characteristics on Stationary Phases Possessing Embedded Polar Groups and Polar Encaps," Paul T. Jackson, Samuel E. Schutz, Heather A. Hrodey.\*\*
12. Project Kaleidoscope Faculty 21 National Assembly, October 11-13, 2002, Co-facilitator, "Birds-of-a-Feather" Lunch Meeting

13. 2001 Meeting of the Midwestern Association of Chemistry Teachers in Liberal Arts, University of St. Thomas, St. Paul, MN, October 26-27, 2001, Analytical Chemistry Discussion Group, "A Capstone Clinical Chemistry Dilemma and Assessment Tool for Role-Playing in Analytical Chemistry," Paul T Jackson, John P. Walters, Phillip I. Volkers.\*\*
14. 156<sup>th</sup> Conference of the Two-Year College Chemistry Consortium, Anoka-Ramsey Community College, Coon Rapids, MN, September 14-15, 2001, Keynote Address, "Bridging the Great Divide: Student and Faculty Cooperative Learning Facilitated by Technology," Paul T. Jackson.
15. St. John's University/College of St. Benedict, Department Seminar, February 17, 1999. "Carbon HPLC Media: Selectivity is the Name of the Game," Paul T. Jackson.

## PRESENTATIONS

1. Midstates Consortium for Math and Science Sustainability Workshop, Oct 2-5, 2009, Northfield, MN, "Moving Our Ideals into Action: Campus Environmental Sustainability Initiatives and Implementation" Jim Farrell, Paul Jackson, David Mitchell, Wesley Pearson, Rebecca Rand, Matt Richey, John Schade, Kathleen Shea, Charles Umbanhowar, Jr., David Van Wylen, Anne Walter. \*\*
2. 22<sup>nd</sup> National Conference on Undergraduate Research, April 10-12, 2008, Salisbury University, Salisbury, MD, "Retracing the 1838 Undine Expedition of J. N. Nicollet: Changes to Surface Waters and Water Quality" Susan Olson, Paul T. Jackson, Anna Fedorowicz, Rebecca Huncosky, Alexandra Pyan, Amanda Rubasch, Katherine Huber. \*\*
3. 2007 Laboratory Design Conference, Sep 17-19, 2008, St. Louis, MO, "Design Issues for 'Green' Chemistry Labs." Ernie Wagner and Paul Jackson.
4. American Chemical Society, Aug 19-23, 2007, Boston, MA, "Incorporating green chemistry into the campus sustainability initiatives at St. Olaf College" Paul T. Jackson, Robert M. Hanson, Gary O. Spessard, Jim Farrell, Pete Sandberg, Marc Klingshirn.
5. American Chemical Society, August 19-23, 2007, Boston, MA, "Incorporating Green Chemistry into an Analytical Chemistry Curriculum: II. Laboratory Development and Implementation." Paul T. Jackson, Julia A. Brown, Lauren Kunz, Matthew Germscheid.
6. The Pittsburgh Conference 2007, Chicago, IL, February 25-March 2, 2007, "Incorporating Green Chemistry into an Analytical Chemistry Curriculum: I. An Initial Assessment." Paul T. Jackson, Julia A. Brown, Paul R. Campbell, Laurence R. Gaalaas, Lance C. Kuehn, Elizabeth R. Johnson, Nicholas R. Mattsson.\*\*
7. Project Kaleidoscope Faculty 21 National Assembly, Dallas, TX, October 15-17, 2004, "Faculty Conversations about Teaching and Learning," Paul T. Jackson and Mary M. Walczak.
8. 10<sup>th</sup> National Conference, Council on Undergraduate Research, LaCrosse, WI, June 23-26, 2004 Workshop: "Incorporating Scientific Communication into Summer Research," Mary M. Walczak, Paul T. Jackson, Charles Umbanhowar, Jr. and Dave Van Wylen.
9. Minnesota Chapter – Human Factors and Ergonomics Society, October 24, 2002, St. Olaf College, Northfield, MN. "An Introduction to Role-Playing in Analytical Chemistry"
10. The Pittsburgh Conference 2001, New Orleans, LA, March 3-8, 2001, "An Examination of RPLC Retention on Stationary Phases Possessing Embedded Polar Groups," Paul T. Jackson, Samuel E. Schutz.\*\*
11. Minnesota Chromatography Forum 20<sup>th</sup> Annual Symposium, Minneapolis, MN, May 18-20, 1999, "Characterizing the Silanophilicity of Silica Based RPLC Column Media," Paul T. Jackson, Catherine Thoen.\*\*
12. 15<sup>th</sup> Biennial Conference on Chemical Education, Waterloo, Ontario, Canada, August 8-13, 1998, "Who is Watching? Developing a Clinical Chemistry Dilemma and Assessment Tool for Role-Playing in Analytical Chemistry," Paul T. Jackson, John P. Walters.
13. The Pittsburgh Conference, New Orleans, LA, March 1-5, 1998, "The Separation of Isomers and Stereoisomers Featuring the Remarkable Chromatographic Selectivity of Carbon Based Reversed Phase Adsorbents," Peter W. Carr, Paul T. Jackson.
14. 36<sup>th</sup> Eastern Analytical Symposium, Somerset, NJ, November 16-21, 1997, "The Remarkable Chromatographic Selectivity of Carbon Based Reversed Phase Adsorbents and Their Application to Separation of Diastereomers Based on Mosher's Reagent for the Analysis of Chiral Drugs," Peter W. Carr, Paul T. Jackson.
15. 113<sup>th</sup> ACS National Meeting, San Francisco, CA, April 13-17, 1997, "Geometric Sensitivity: A Key Component in the Separation and Quantitation of Stereoisomers by Reversed-Phase Liquid Chromatography Using Carbon-Based Stationary Phases," Paul T. Jackson, Tae-Young Kim, Peter W. Carr.\*\*

16. HPLC '96 - 20<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, San Francisco, CA, June 16-21, 1996, "Carbon-Clad Zirconia as a Reversed-Phase HPLC Packing Material for the Analysis of Isomeric Analytes and Environmental Contaminants," Paul T. Jackson, Peter W. Carr.
17. HPLC '96 - 20<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, San Francisco, CA, June 16-21, 1996, "The Pursuit of Monomeric Reversed-Phase Supports on Microporous Zirconia," Michael H. Glavanovich, Paul T. Jackson, Peter W. Carr.
18. 209<sup>th</sup> ACS National Meeting, April 2-6, 1995, Anaheim, CA, "Semifluorinated Alkanes: Organic Synthesis with Chromatographic Applications," Jennifer L. Peters, Paul T. Jackson, Peter W. Carr.\*\*
19. 28<sup>th</sup> Great Lakes Regional Meeting of the ACS, LaCrosse, WI, June 5-8, 1995, "Chromatographic Evaluation of Carbon Overlaid Zirconia," Thomas P. Weber, Peter W. Carr, Paul T. Jackson.

\*\* denotes papers and presentations with undergraduate authors

## GRANT APPLICATIONS & AWARDS

Status	Organization	Investigator	Description/Title
Awarded 10/15/10	MPCA CWP Resource Investigation	Co-PI	Rice Creek Assessment Project, A joint project with Bridgewater Township and CRWP; \$110,000
Awarded 03/10/10	National Science Foundation	Sr. Personnel	REU Site. From Genes to Ecosystems: Environmental Science in a Changing World
Declined 11/30/07	National Science Foundation	Co-PI	Interdisciplinary Environmental Science at St. Olaf College, NSF-REU, \$500,000
Declined 11/30/06	National Science Foundation	Co-PI	Interdisciplinary Environmental Science at St. Olaf College, NSF-REU, \$482,812
Awarded 11/30/06	NCUR/Lancy	Co-PI	Re-imaging Joseph N. Nicollet's 1838 Mapmaking Expedition through the Undine Region of Minnesota and Beyond. \$40,000
Declined 11/30/05	National Science Foundation	Co-PI	Interdisciplinary Environmental Science at St. Olaf College, NSF-REU, \$482,812
Awarded 07/07/04	W. M. Keck Foundation	Co-PI	Green Chemistry Throughout the Curriculum \$500,000
Awarded 09/01/03	National Science Foundation	PI	Acquisition of a Liquid Chromatograph-Mass Spectrometer to Support Faculty-Student Research, \$202,010
Awarded 01/15/02	St. Olaf College	PI	Faculty Development – Time Release Grant for Fall 2002.
Declined 11/30/01	Packard Foundation	Co-PI	Lake Sediments as History and Destiny: an interdisciplinary, multiple-site study of the biogeochemistry of lake sediments and their relationship to watershed land-use, \$1,000,000
Declined 11/15/01	Research Corporation	PI	Stationary Phase Structure and its Impact on Retention and Selectivity in Reversed-Phase Liquid Chromatography, \$35,000
Awarded 2/13/01	Merck – AAAS	Co-PI	Undergraduate Science Research Program, Interdisciplinary Research at St. Olaf, \$60,000
Declined 11/14/00	Research Corporation	PI	Stationary Phase Conformation and its Impact on Retention and Selectivity in Reversed-Phase Liquid Chromatography, \$35,000
Declined 10/15/00	National Science Foundation	Chem Dept	CCLI "Hands-on NMR Spectroscopy for Rural Southeast Minnesota," \$199,970
Awarded 8/1/99	Camille & Henry Dreyfus Foundation	PI	Supplemental Award for New Faculty, \$10,000
Declined 8/1/99	Camille & Henry Dreyfus Foundation	PI	Start-up Award for New Faculty at Undergraduate Institutions, \$20,000
Awarded	St. Olaf College	PI	Faculty Start-up Award, \$50,000

## COLLEGE ACTIVITIES

### ***Chemistry Department Committees, Duties, and Contributions***

- Self-study Committee (2000-2003)
- Department IIT Liaison (2002-present)
- Served on Mentoring Focus Group (2001-present)
- ACS Student Affiliate Chapter Faculty Advisor (1999-2003)
  - Presentation: “Graduate School: How to Get There” October 16, 2002
- Served on Leadership Model Development Committee (2001-2002)
- Ad Hoc Safety Committee Chair (2000-present)
- Conducted instrument maintenance and repair (1999-present)
- Department Tenure-Track Search Committee Member (2000-2002)
- Coordinated GC-MS purchase for dept (2000-2001)
- Developed web form for purchasing requests (2001)
- Developed web surveys for department self-study (2000)
- Coordinated HPLC purchase for dept (1999-2000)
- Coordinated Summer Research Communications Series (1999, 2000)
- Served as faculty advisor to PEW Midstates Physical Sciences and Mathematics Symposium (1999, 2002)
- Participated in Open Houses (1998-2001)
- Chemistry Department Seminar Coordinator (1998-1999), Responsible for contacting, scheduling, and other logistics associated with bringing speakers to campus.
- Developed GC-MS User’s Manual (1998)

### ***College Committees, Duties, and Assignments***

- Chair, Environmental Studies Department (2008-present)
- FNSM Science Facilities Design Team (2005-2009)
  - Regents Hall Facilities Guide, (2008-present)
- FNSM Green Building Committee (2001-2008)
  - Attended International Green Building Conference, Austin, TX, November 13-15, 2002.
  - Attended International Green Building Conference, Portland, OR, November 10-12, 2004.
- Speaker Coordinator, “Science and the Liberal Arts” Theme Year, May 7-8, 2009; Dr. Gregory Smith, Art Conservation Scientist
- Field Supervisor, *Environmental Science in Australia*, Spring 2008
- Program Advisor, *Environmental Science in Australia*, (2008-present)
- Program Advisor, *Lancaster University Junior Year Abroad*, (2004-2009)
- Admissions, Retention and Financial Aid Committee – ARFAC (2003-2005)
- College Sustainability Task Force (2003-present)
- CEPC Special Studies Subcommittee (2002-2003)
- Community Task Force (Spring/Summer 2002)
- FNSM Honor’s Day Science Symposium Organizing Committee member (1999-2003)
- FNSM Poster Symposium Committee member (1999-2000)
- Assisted Charles Umbanhower Jr. with Biology Department purchase of Flow Injection Analyzer Instrument (2001-2002)
- Participated in "Theological Explorations of Vocation" Focus Group (2000)
- Served on Environmental Studies Task Force (1998-1999)

### ***The College and Community***

- Boldt Seminar Participant (Spring 2002)
- Cantor, Boe Memorial Chapel, (2001-present)
- Cantor, St. John’s Lutheran Church, Northfield, MN (2000-present)
- Choir member, *I Cantanti*, Northfield, MN (1998-1999, 2005-2008)
- Choir member, St. John’s Lutheran Church, Northfield, MN (2000-2003)
- Crewmember, Football Yardage Markers (1998-present)
- Faculty Panelist – Accepted Students Program, Global Perspectives Sessions, (Spring 2009)
- Faculty Panelist - Junior Day Admissions Program, Global Perspectives Sessions, (Fall 2008)
- Faculty Panelist - Faculty Development Committee Grants Forum, (9 Oct 2003 and 5 Oct 2004 )
- Faculty Panelist - Junior Day Admissions Program, Faculty Q&A Session, (Spring 2003, 2004)

- Fall Open House 2001, Information Session Leader “Liberal Arts and Academic Excellence”
- Fall Open House 2002, Information Session Leader “A Liberal Arts Education: Preparing for Life”
- Judge, International Studies Photo Contest (Spring 2002)
- Lenten Devotion Submission (2000)
- Memorial Chime Tower Construction Team, (August - September 2003)
- Official Scorer, Men's Basketball (2007-present)
- Paper Evaluator, Biology in South India program (Spring 2002)
- Participated in "Called to Serve" Conference (2000)
- Search Committee for Media Relations Specialist (Fall 2001)
- Served as Interviewer for Regent Scholars (1998-2000, 2002)
- Shot Clock Operator, Men's & Women's Basketball (1998-2007)
- St. Olaf College Forum (2002-2004)
- Volunteer, Ronald McDonald House of the Twin Cities (1997-2000)
- Volunteer, WCAL (2000-2002)

### **Academic Internship Advising:**

Kirsten Rittenbach	J04	"The Professional world of dentistry and orthodontics"
Thomas Nagel	J04	"Physical therapy and its role in the patient care team"
Allison Madison	J05	"Green Building Case Studies and the MN Office of Environmental Assistance"
Michael Marty	J09	"US EPA, Presidential Green Chemistry Challenge"
Kris Elbein	J10	"US EPA, Presidential Green Chemistry Challenge"
Melina Lamer	Sum10	"Sustainability Efforts with Aramark at Denali National Park"

### **Center for Integrated Studies Advising:**

Matthew Florek '04	"Anatomy and Physiology of the Human Body and Associated Health Sciences"
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## UNDERGRADUATE RESEARCH STUDENTS

Name	Hometown	Project	Dates	Employment/Degrees
Whitney A. Johnson	Rochester, MN	SPME for Air sampling	Summer 1998	Systems Analyst Accenture, Inc.
<b>Catherine R. (Thoen) Keppel</b>	Alexandria, MN	SPME of Jelly Bean Volatiles	Summer 1998 1998-1999	Food Science M.S. Iowa State U
Amanda S. Harper	Naperville, IL	Clinical Lab Development	Spring 1999	Chemistry Ph.D. U North Carolina
Dana M. (Ostergaard) Dronen	Bloomington, MN	Clinical Lab Development	Spring 1999	Food Science Ph.D. U Minnesota, General Mills
Scott A. Rodgers	Denver, CO	Clinical Lab Development	Spring 1999	Director of Web Services Entercom Denver Radio
Benjamin J. Murray	San Diego, CA	Clinical Lab Development	Spring 1999	Chemistry Ph.D. UC - Irvine
<b>Heather A. (Hrodey) Haemig</b>	Woodstock, IL	SPME Wetland Analysis	1999-2000	Biochemistry Ph.D. U Minnesota
Jennifer L. Packer	Delano, MN	Wetland Analysis	Fall 1999	Environmental Engineer CDM
Emina Stojkovic*	Belgrade, Serbia	HPLC Analysis of PLA <sub>2</sub> reaction products	1999-2000	Molecular Biology Ph.D. U Chicago
<b>Dannia L. Vang</b>	Eagan, MN	SPME Wetland Analysis	Summer 2000	Pharmacy U Minnesota
Samuel E. Schutz	Rochester, MN	LSER Sensitivity, Embedded Polar Groups	Summer 2000	Junior Research Scientist Mayo Clinic
Leyla Tabesh*	Plymouth, MN	HPLC Analysis of PLA <sub>2</sub> reaction products	2000-2001	Dental School
Phillip I. Volkers	Galesburg, IL	GC-MS Clinical Chemistry Lab Development	Summer 2001	Chemistry Ph.D. U Illinois Urbana-Champaign
<b>Justin Seningen</b>	Eau Claire, WI	Pharmaceutical Agents in Wastewaters	Summer 2001, 2002	Medical School U Minnesota
Emily Breen	Eau Claire, WI	Chemical Profile of Wetlands	Summer 2001	Chemistry Ph.D. Purdue U
Kyle Halvorson	Eden Prairie, MN	Pharmaceutical Agents in Wastewaters	Summer 2002, 2003	Junior Research Scientist U Minnesota
<b>Kirsten Rittenbach</b>	Portland, OR	Pharmaceutical Agents in Wastewaters	Summer 2003, 2004	Dental School, University of California - San Francisco
John Lamppa	Northfield, MN	Pharmaceutical Agents in Wastewaters	Summer 2005	Grad School, Chem Eng, Dartmouth
Rebecca Hochstein**	Plymouth, MN	Mussels an Indicator Species of Surface Water Health	Summer 2005	Biotech, Madison, WI
Julia A. Brown	Crystal, MN	Bringing Green Chemistry into the Advanced Chemistry Laboratory.	Summer 2006	Pace Analytical
Susan Olson	Sun Prairie, WI	Retracing the 1838 Undine Expedition of J.N. Nicollet	Summer 2007	Working?
Anna Fedorowicz	St. Paul, MN	Retracing the 1838 Undine Expedition of J.N. Nicollet	Summer 2007	Grad School, public health
Lauren Kunz	Madelia, MN	Greening the Analytical Chemistry Labs	Summer 2007	Fullbright Fellowship, Norway
Matthew Germscheid	Apple Valley, MN	Analytical Spectroscopy Using Minimal Sample Preparation	Summer 2007	Pharmacy School in '09
Ilse Peterson	St. Paul, MN	Retracing the 1838 Undine Expedition of J.N. Nicollet	Summer 2008	Environmental Investment Firm, Washington DC
James Jaffe**	Park Ridge, IL	Presence of Metals in Storm Water Runoff	Summer 2010	Current STO student
Jennifer Sandahl**	Cedar, MN	Presence of Metals in Storm Water Runoff	Summer 2010	Current STO student
Cherie Thunder	Keshena, WI	Mixed Mesic Prairie as a Possible Source of Chemical Feedstocks	Summer 2010	College of the Menominee Nation

\* denotes adjunct advisor with Anne Walter (Biology) and Mary Walczak (Chemistry). \*\* denotes co-advisor with Mike Swift (Biology) or Mary Walczak (Chemistry) **Boldface** indicates completion of distinction in chemistry