

**CRISPIN HAYES PIERCE**  
1314 S. Farwell St.  
Eau Claire, WI 54701  
(715)836-5589 (W) (715)838-0978 (H)  
email: piercech@uwec.edu

## **EDUCATION**

**Postdoctoral Fellowship**, 2/93-7/97, University of Washington, Seattle, WA.

**Ph.D., Pharmaceutical Chemistry** (emphasis Toxicology), 3/93, University of California, San Francisco, CA. Dissertation: The Toxicokinetics of Styrene and Styrene Oxide.

**M.S., Bioenvironmental Studies**, 6/84, California State University at Hayward. Thesis: The Biological Effects of Offshore Seismic Oil Exploration: A Literature Survey.

**B.A., Biology**, 6/77, University of California, Santa Cruz, CA.

## **PROFESSIONAL POSITIONS**

**Tenured Full Professor and Program Director**, University of Wisconsin-Eau Claire, Environmental Public Health Program, 8/15–present. Director responsibilities for program direction, faculty r

**Tenured Associate Professor and Program Director**, University of Wisconsin-Eau Claire, Environmental Public Health Program, 8/09–present. Senior responsibilities for program direction, faculty evaluation, course creation, university service, and faculty-student research.

**Assistant Professor and Program Director**, University of Wisconsin-Eau Claire, Environmental Public Health Program, 8/03–8/09. Developed new courses in Environmental Public Health, guided reaccreditation of undergraduate and graduate programs, advised students, recruited new students into ENPH program, served on committees, and began faculty-student research program in toxicokinetics.

**Adjunct Assistant Professor**, University of Washington Department of Occupational and Environmental Health Sciences, 8/03–6/05. Online course instructor for ENVH 405 S course: Toxic Chemicals in the Environment. Co-investigator on two research grants.

**Lecturer / Research Scientist**, University of Washington Department of Occupational and Environmental Health Sciences, 8/97–8/03. Presented graduate course lectures in eight departmental courses, supervised ten Bachelors, Masters and Ph.D. students, obtained two grants as Principal Investigator, and two as Co-Investigator.

**Toxicologist**, Leland D. Attaway & Associates, Inc., 9/85 - 9/87.

Prepared health risk assessments for submission to the California Air Resources Board, California Energy Commission, and California Department of Health Services (DOHS); provided expert public health testimony to the California Senate Committee on Toxics and Public Safety Management.

## **TEACHING EXPERIENCE**

**University of Eastern Finland-Kuopio**

### **Invited Lectures**

- Genetic and Reproductive Toxicology
- Public Health Issues
- Public Health in Humanitarian Crises
- Health and Disease in the Baltic Region
- Advanced Toxicological Risk Assessment

### **University of Wisconsin-Eau Claire**

#### **New Course Preparation**

- Preparation for Practicum – ENPH 432
- Industrial Hygiene – ENPH 460
- Pest Control Management – ENPH 475
- Introduction to Public Health– NRS 225 / ENPH 225 (with Dr. Cheryl Lapp or Dr. Chris Gabel)
- Introduction to Environmental Health–ENPH 110, in-class and online versions
- Water and Wastewater–ENPH 441/641
- Environmental Toxicology and Risk Assessment–ENPH 490/690
- Solid and Hazardous Waste Management–ENPH 445/645
- Air Quality Management–ENPH 725
- Research Methods–ENPH 792
- UW-Eau Claire Science Institute Course: Environmental Public Health, for high-achieving 6th through 12th grade students.

#### **Courses Taught**

- Preparation for Practicum – ENPH 432
- Introduction to Environmental Health–ENPH 110
- Radiological Health–ENPH 322/522
- Water and Wastewater–ENPH 441/641
- Solid and Hazardous Waste Management–ENPH 445/645
- Fundamentals of Industrial Hygiene–ENPH 460/660
- Pest Control Management – ENPH 475
- Environmental Toxicology and Risk Assessment–ENPH 490/690
- Introduction to Public Health– NRS 225 / ENPH 225 (with Dr. Cheryl Lapp or Dr. Chris Gabel)
- Air Quality Management–ENPH 725
- Undergraduate Internship–ENPH 435
- Graduate Internship–ENPH 735
- Graduate Seminar–ENPH 785
- Research Methods–ENPH 792
- Undergraduate Independent Study–ENPH 399
- Graduate Independent Study–ENPH 797
- UW-Eau Claire Science Institute Course: Environmental Public Health, for high-achieving 6th through 12th grade students.

### **Invited Lectures**

- Environmental Economics–ECON 268 (2011, 2015-2019)
- Introduction to Pharmacology–NRS 245 (2009–2015)
- Graduate Nursing Practice–ADTN/FMHN 746 (2008)
- Social Movements–SOC 315 (2008)
- Exploring Mind-Body Connections–IDIS 301 (2004–2005, summer 2005)
- Climate Change–CHEM 191 (2005–2008)
- Introduction to School Health Education and Current Health Issues–KINS 335 /535 (2006)
- PIA: Rhythms and Dance–KINS 302 (2006–2007)

### **Research Supervision**

- Orion Allgaier, Carter Focht, Connor Barnes, Aleah Anderson, Erik Rodahl, Josephine Killoren, Alexandra Larson, Carley Forsythe; Installation and Monitoring of Purple Air PM2.5 Instruments Near Frac Sand Operations; Fall 2017-Summer 2019.
- Ethan Fuhrman, Carter Focht, Alayna Spengler, Christopher Conrad, Ian Wetzel, Cory White, Johnny Yang, Seleta Lor, Hannah Smith, Maryanne Cowart, Joshua Burns, Ben Kleist, Ken Braunling; Instrument Calibration and Deployment, and Data Collection for Ambient PM Levels in Wisconsin; Spring 2015-Fall 2017.
- Ethan Fuhrman E, Pang Xiong-Yang, Jacob Kentnich, Peter Husnik, Jon Dahlen, Rujiang Liang, John Awad; PM2.5 Ambient Levels Around Frac Sand Operations in Wisconsin; Summer 2015-Fall 2017.
- Kristin Walters, Jeron Jacobson, and Zachary Kroening; PM2.5 Airborne Particulates near Frac Sand Operations; Spring 2014-Fall 2016.
- Sara Aragon, Jesse Kreger, John Awad, Sydney Garavalia, Rachel Bates, Ian Wetzel, Liang Ruijian, Jennifer Schmitz, Lindsey Meyer, Paul Tapia; Use of EPA Instruments to Measure Airborne Particulates and Silica; Fall 2014-Spring 2015.
- Jon Dahlen (UW-Stout); Field Assessment of Particulate Pollution from Frac Sand Facilities; Community Health Internship Program; Summer 2014.
- Jennifer Schmitz (BluGold Fellow), Jon Dahlen (UW-Stout), Chris Conrad, John Jilek, Beth Valentine; Field Assessment of Particulate Pollution from Frac Sand Facilities; Spring 2014.
- Kristin Walters, Zachary Kroening, Jeron Jacobson, Ian Wetzel; Testing of EPA Instruments for Field Measurement of Particulates; Summer 2013–Fall 2013.
- Kristin Walters, John Jilek, Zachary Kroening, Jeron Jacobson, Kimberly Shermo; Airborne Particulate Exposure Around Frac Sand Mines and Processing plants in Wisconsin; Fall 2012–Spring 2013.
- Rachael Korinek, Lindsey Mittendorf, Jared Ryan, Allison Malacek; Heavy Metals in Hair as Predictors of Disease; Fall 2012–Spring 2013.
- Caitlin Rosch, Katherine Wall, Alayna Spengler, Nicole Frankfourth, Matthew Lillie, undergraduates; Survey of Heavy Metals As, Cr, Pb, and Hg in the Hair of Finnish Children; Spring 2012.

- James Fay, Andrew Kleist, Gregory Nelson, undergraduates; Particulate Matter and Silica Exposure from the UW-Eau Claire Student Center construction and Chippewa Falls sand plant operation, Spring–summer 2011.
- Pat Bloecher and Katrina Smith, undergraduates; Estimates of Mortality and Morbidity from the UW-Eau Claire Coal-Fired Heating Plant; Spring 2010.
- Pat Bloecher and Amy Zagar, undergraduates; Unregulated Crystalline Silica Exposure in Wisconsin; Spring 2010.
- Kelly Steffen, Sara Aragon, Matthew Sisbach, Pat Bloecher; Secondhand Smoke Exposure at UW-Eau Claire (with nursing faculty member Kathy German-Olson); Spring 2010.
- Marc Schultz; Development of Environmental Health Tracking Exercises for ENPH Courses; Fall 2009.
- Caleb Johnson, undergraduate; Chloramine Sampling and Lung Function Testing Associated with Swimming Pool Exposure, (with KINS 474 Research Methods students), November 2008.
- Jay Nielsen, undergraduate; Jacob Schafer, undergraduate; Pat Bloecher, undergraduate; Patricia Hernick, undergraduate; Survey of Antibiotic Resistant Bacteria in Septic Fields from Health Care Facilities, Spring 2007–summer 2008.
- Tola Ekunsanmi, graduate; Michael Checkai, undergraduate; Survey of Antibiotic Resistant Bacteria in Septic Fields From Health Care Facilities, Spring 2007.
- Patricia Krug, graduate, Jay Nielsen, undergraduate, Amy Zagar, undergraduate; Celina Cooper, undergraduate; Survey of Heavy Metal Exposure As Assessed Through Hair Analysis, Spring 2007–2008
- Katya Alcaraz, undergraduate; Taylor Hunding, undergraduate; Survey of Heavy Metal Exposure As Assessed Through Hair Analysis, Spring 2007
- Robert Drew Kutschenreuter, graduate, Surveillance of West Nile Virus and Public Safety in Winnebago County, Illinois, summer, Fall 2006
- Megan Arndt, undergraduate, Population Kinetic Analysis of MTBE and ETBE Data, summer, Fall 2006
- Messie Squire, graduate, Population Kinetic Analysis of MTBE and ETBE Data, summer 2006
- Erin Moritz, graduate, Toxicokinetics of MTBE thesis preparation, Spring 2006.
- Chris Judkins-Fisher, physiologic model fit manuscript preparation, winterim 2005–2006, summer 2006
- Erin Moritz, graduate, MTBE toxicokinetics manuscript preparation, winterim 2005–2006
- Jared Balkman, undergraduate, MTBE biological indicator manuscript preparation, winterim 2005–2006
- Darin Mohr, undergraduate, Determining a Biological Indicator of MTBE Exposure in Human Breath, Summer 2005
- Jared Balkman, undergraduate, Determining a Biological Indicator of MTBE Exposure in Human Breath, Summer 2005
- Jessica Berti, undergraduate, Toxicokinetics of MTBE, Spring 2005

- David Boberg, undergraduate, Toxicokinetics of MTBE, Spring 2005
- Erin Moritz, graduate, Toxicokinetics of MTBE, Spring 2005
- Kristin Hardy, undergraduate, Applying a Physiologic Model of MTBE Exposure to Determine Risk, Summer 2004
- Chris Judkins-Fisher, entering undergraduate, Developing an Objective Test of Physiologic Model Fit to Data, Summer 2004
- Karen Bartosh, undergraduate, Developing an Objective Test of Physiologic Model Fit to Data, Summer 2004
- Erin Moritz, graduate, Sensitivity Analysis of a Physiologic Model of MTBE Exposure, Summer 2004
- Alison Deneen, undergraduate, Toxicokinetics of MTBE, Spring 2004
- Ashley La Casse, undergraduate, Toxicokinetics of MTBE, Spring 2004
- Julie Freidhoff, graduate, Toxicokinetics of MTBE, Spring 2004
- Laura Schrage, graduate, Toxicokinetics of 13C-Toluene (Statistical Analysis), Fall 2003
- Karen Bartosh, undergraduate, Toxicokinetics of 13C-Toluene (Lagran Analysis), Fall 2003
- Mia Jewell, undergraduate, Toxicokinetics of 13C-Toluene (Isotope Effect), Fall 2003

### **Thesis/Comprehensive Exam Committees Chair**

Patricia Krug (2008), Abdella Jawhar (2008), David Fairbairn (2008), Drew Kutschenreuter (2008), Tola Ekunsanmi (2007), Rick Helgemo (2007), Messie Squire (2007), Cathy Pohl (biology, 2006), Cathleen Miller (2006), Bridget Torgerson (2006), Erin Moritz (2006), Jen Dachel (2005), Kim Aylesworth (2005), Kaia Johnson (2005), Julie Friedhoff (2005), Ramesh Sedhain (2004), Jeff Johnson (2004), Anu Nair (2004), Laura Schrage (2004), Krishna Parimi (2004), Jason Christopherson (2004), Ken Tuckwell (2004), and Todd Whalen (2004).

### **Advisee Load**

- **2019: 12 Undergraduates**
- **2018: 13 Undergraduates**
- **2017: 14 Undergraduates**
- **2016: 18 Undergraduates**
- **2015: 10 Undergraduates**
- **2014: 10 Undergraduates**
- **2013: 7 Undergraduates**
- **2012: 5 Undergraduates**
- **2011: 37 Undergraduates**
- **2010: 36 Undergraduates**
- **2009: 35 Undergraduates**
- **2008: 31 Undergraduates, 4 graduate students**

- **2007: 25 Undergraduates, 4 graduate students**
- **2006: 20 Undergraduates, 6 graduate students**
- **2005: 17 Undergraduates, 7 graduate students**
- **2004: 18 Undergraduates, 6 graduate students**
- **2003: 12 Undergraduates, 5 graduate students**

### **University of Washington**

#### **Program Development**

- Invited faculty participant in the development of a Community-Oriented Public Health Practice MPH degree, the first accredited Problem-Based Learning MPH program in the United States (<http://depts.washington.edu/cophp/>).

#### **Courses Created and Taught**

- Toxic Chemicals in the Environment (1999–2006), (<http://depts.washington.edu/~digital/405>).
- Advanced Toxicokinetics (1999–2000), (<http://depts.washington.edu/~digital/ENVH590A>).

#### **Courses Co-Taught**

- Environmental and Occupational Toxicology (2002)
- Environmental and Occupational Health (2002–2003)
- Current Topics in Risk Assessment (2001)
- Toxic Chemicals in the Environment (2003)

#### **Invited Lectures**

- Risk Assessment (1995–2003)
- Advanced Pharmacokinetics (1994–2001), (<http://depts.washington.edu/~digital>)
- Environmental and Occupational Toxicology (1994–2001), (<http://depts.washington.edu/~digital/ENVH514>)
- Drinking Water and Health (1999)
- Exposure Dosimetry (1999)

#### **Continuing Education Instruction**

- A Small Dose of Toxicology (1998, 2001) courses.
- Chemistry Institute for High School Teachers lecturer (1993, 1994).
- Toxicology Continuing Education Course (1994)
- Risk Assessment Continuing Education Course (1996)
- Course Director. Health Resources on the Internet (1998)
- Industrial Hygiene Certification Exam Preparation (1998) (<http://depts.washington.edu/~digital/IHTOX/>)
- Statistics (<http://depts.washington.edu/~digital/toxstats/toxstats2.html>) and Toxicokinetics (<http://depts.washington.edu/~digital/toxstats/BasicPK2.html>) Continuing Education Courses (1996).

### **Research Supervision**

- Graduate student mentor for 8 students.
- Research supervisor for 3 undergraduate and 6 graduate students.

### **Pacific Lutheran University**

- Invited lecturer for hazardous waste course (1994).

### **UC San Francisco**

- *Pharmacokinetics for Pharmaceutical Scientists* course, Workshop Leader (1991, 1992)
- Teaching Assistant, UCSF Pharmacy Courses, (1988–1989)
- Guest Lecturer, High School Science Programs, (1988–1991)

### **Extracurricular Teaching**

Lead Instructor in teaching over 10,000 students of all ages and abilities in various dance styles, including instruction at UC Santa Cruz, UC Berkeley, UW-Eau Claire (Two to Tango Club), Eau Claire YMCA and Chippewa Valley Theatre Guild (1980–2019).

### **FUNDED GRANTS**

- Eleventh Hour Foundation, **Air Quality Monitoring: Student and Faculty Support and Instrument Purchase. Crispin Pierce, PhD, PI.**  
Entire project 5/2019-12/2020      \$25,000
- University of Wisconsin-Eau Claire Summer Research for Undergraduates Grant **PM2.5 Measurement Around Frac Sand Plants Using EPA-Certified and Citizen Science Instruments, Crispin Pierce, PhD, P.I.**  
Entire Project 6/2019-12/2019      \$6,150
- Damascus Citizens for Sustainability grant **Student Internship Support for Frac Sand Research, Crispin Pierce, PhD, PI.**  
Entire project 5/2018-9/2018 \$2,000.
- University of Wisconsin-Eau Claire Summer Research for Undergraduates Grant **PM2.5 Measurement Around Frac Sand Plants Using EPA-Certified and Citizen Science Instruments, Crispin Pierce, PhD, P.I.**  
Entire Project 6/2018-12/2018      \$5,500
- Fitzpatrick Skemp & Associates LLC, **Air Quality Monitor Purchase Grant. Crispin Pierce, PhD, PI.**  
Entire Project 6/2018-9/2018 \$5,000
- University of Wisconsin-Eau Claire Faculty/Student Research Collaboration Grant **PM2.5 and Silica Measurement Around Frac Sand Plants Using EPA-Certified and Direct-reading Instruments, Crispin Pierce, PhD, P.I.**  
Entire Project 1/2015-5-6/2015      \$2,800
- Town of Cook's Valley, **Monitoring of PM10, PM2.5 and Crystalline Silica in Ambient Air in Cook's Valley/Bloomer, Crispin Pierce, PhD, P.I.**  
Entire Project: 10/2014–10/2016      \$20,000

- Citizen crowd-sourced donations, **Purchase of Two EPA Federal Reference Method Ambient Air Particulate Monitors**, Crispin Pierce, PhD, P.I.  
Entire Project: 9/2014–6/2015 \$65,000
- University of Wisconsin-Eau Claire, Summer Research Experience for Undergraduates, **EPA-Certified Instrument Use in Measurement Around Sand Mines and Processing Plants in Wisconsin**, Crispin Pierce, PhD, P.I.  
Entire Project: 6/2014–12/2014 \$4,500
- University of Iowa Health Sciences Center, **Field Monitoring of Frac Sand Facility Emissions of PM10, PM2.5 and Silica**, Crispin Pierce, PhD, P.I.  
Entire Project: 4/2014–4/2015 \$10,000
- University of Wisconsin-Eau Claire, Summer Research Experience for Undergraduates, **Particulate and Crystalline Silica Measurement Around Sand Mines and Processing Plants in Wisconsin**, Crispin Pierce, PhD, P.I.  
Entire Project: 6/2013–12/2013 \$4,500
- University of Wisconsin-Eau Claire, Summer Research Experience for Undergraduates, **Particulate Matter and Silica Exposure from the UW-Eau Claire Student Center construction and Chippewa Falls Sand Plant Operation**, Crispin Pierce, PhD, P.I.  
Entire Project: 6/2011–9/2011 \$6,600
- University of Wisconsin-Eau Claire, Blugold Commitment Proposal, **Expanded Delivery of the Public Health Curriculum (with Christine Gabel and Karen Maddox)**  
Crispin Pierce, PhD, P.I.  
Entire Project: 9/2010–6/2011 \$ 16,576
- University of Wisconsin-Eau Claire, Office of Research and Sponsored Programs, **Survey of Heavy Metal Exposure As Assessed Through Hair Analysis (with Jill Ferguson, geology)**  
Crispin Pierce, Ph.D., P.I.  
Entire Project: 5/2008–5/2009 \$3,400
- University of Wisconsin-Eau Claire, Office of Research and Sponsored Programs, **Survey of Antibiotic Resistant Bacteria in Septic Fields From Health Care Facilities (with Sasha Showsh, biology)**  
Crispin Pierce, Ph.D., P.I.  
Entire Project: 10/16/06–10/16/07 \$1,500
- University of Wisconsin-Eau Claire, Office of Research and Sponsored Programs, **Survey of Heavy Metal Exposure As Assessed Through Hair Analysis (with Jill Ferguson, geology)**  
Crispin Pierce, Ph.D., P.I.  
Entire Project: 10/16/06–10/16/07 \$2,500
- University of Wisconsin-Eau Claire, Office of Research and Sponsored Programs, **Alternative Markers of MTBE Exposure**  
Crispin Pierce, Ph.D., P.I.  
Entire Project: 6/01/05–9/30/05 \$2,820

- University of Wisconsin-Eau Claire, Office of Research and Sponsored Programs, **Validating a Model of MTBE Exposure**  
Crispin Pierce, Ph.D., P.I.  
Entire Project: 7/01/04–8/01/04      \$1,400
- CDC–WEHA **Noncompetitive Grant Renewal for Capacity Building**; Christine Gabel, P.I.;  
\$17,500; October 2003–September 2004; Centers for Disease Control and Prevention–  
Wisconsin Environmental Health Association
- University of Wisconsin-Eau Claire, Office of Research and Sponsored Programs, **Toxicokinetics of <sup>13</sup>C-Toluene (Statistical Analysis)**  
Crispin Pierce, Ph.D., P.I.  
Entire Project: 10/15/03–6/30/03      \$2,075
- University of Wisconsin-Eau Claire, Office of Research and Sponsored Programs, **Toxicokinetics of <sup>13</sup>C-Toluene (Isotope Effect)**  
Crispin Pierce, Ph.D., P.I.  
Entire Project: 10/15/03–6/30/03      \$1,700
- NIH/NCRR, **Resource Facility for Population Kinetics**  
Paolo Vicini, Ph.D., P.I.  
Role: Project Leader  
Entire Project: 3/1/03 - 2/28/08      \$3,746,382
- National Institute for Occupational Safety and Health 5 K01 OH00164-03, **Toxicokinetics of Ethyl Tertiary-Butyl Ether in Men and Women**  
Crispin Pierce, Ph.D., P.I.  
Entire Project: 9/1/97 - 9/29/00      \$146,285 DC
- NIH/NIEHS ES-04696, **Effect-Related Monitors of Toxic Exposure, subproject Human Dosimetry for the Assessment of Exposures to Volatile Compounds**  
Harvey Checkoway, Ph.D., PI.  
Entire Project: 4/1/00-3/31/06      \$1,111,000 DC  

<u>Year</u>	<u>Role</u>
1993-1995	Senior Fellow
1996-present	Co-investigator
- NIEHS / EPA ES-97-004, **Center for Child Environmental Health Risks Research**  
Elaine Faustman, Ph.D., P.I.  
Entire Project 8/1/98 - 10/31/03      \$5,260,736 DC  
Role: Research Scientist
- Center for Ecogenetics and Environmental Health, **CYP1A1, CYP2E1, and ALDH2 Polymorphisms as Determinants of Solvent Metabolite Toxicokinetics**  
Crispin Pierce, Ph.D., PI.  
Entire Project: 9/1/97 - 8/31/98      \$4,000 DC

## SUBMITTED GRANTS

- National Institute for Environmental Health Sciences (NIEHS), **Exposures to airborne particulates from industrial sand mining facilities in western Wisconsin**  
Crispin Pierce, PhD, co-PI  
Entire Project 6/2016-5/2019            \$299,651 DC
- University of Wisconsin-Eau Claire Undergraduate Domestic Intercultural Immersion (DII) Experience, **Partnerships for Health, Safety and Cultural Competence in Agriculture: Domestic Intercultural Immersion Experience at Dairy Farms Hiring Immigrants from Mexico**  
Crispin Pierce, PhD, co-PI  
Entire Project 2013-2016            \$18,500 DC

## HONORS AND AWARDS (selected)

- **2018 Grassroots Festival Distinguished Contributor Award, September 2018, conference at UW-Eau Claire, WI.**
- **Fulbright Scholar Program, Environmental Sciences Application Reviewer (2015-2018).**
- **National Environmental Health Association Subject Matter Expert and Technical Advisor: Hazardous Materials (2016-2019).**
- **UW-Eau Claire Excellence in Mentoring in Research, Scholarship and Creative Activity award (2017).**
- **National Environmental Health Association Subject Matter Expert and Technical Advisor: Hazardous Materials (2016).**
- **Citation of research findings in the popular press: Los Angeles Times, Huffington Post, CBS Evening News, Inside Climate News, Eau Claire Leader-Telegram (2013); Huffington Post, Your Mining News, Chippewa Herald, Milwaukee BizTimes, Madison CapTimes, Wisconsin Gazette.com, Center for Health, Environment and Justice, Akron Beacon Journal, Wisconsin Public Radio, WRDN Radio – Durand, WI (2014). NPR Marketplace, Truth-Out.org (2015).**
- **Invited expert for press conference call, “Rapidly Expanding Frac Sand Mining is Hidden Danger of Fracking Boom in U.S.,” Midwest Environmental Advocates/Environmental Working Group, 25 Sept. 2014.**
- **Invited testimony to the US EPA on proposed CO2 Emission Reductions from Coal-Fired Power Plants, Civil Society Institute, Denver, CO, July 2014.**
- **2014 National Environmental Health Association Conference Student Research Award, PM2.5 Airborne Particulates Near Frac Sand Operations, Kristin Walters and Crispin Pierce, Las Vegas, NV, July 2014.**
- **Provost’s Honors Symposium for Research, Scholarship, and Creative Activity, “PM2.5 Airborne Particulates Near Frac Sand Operations,” May 2014.**

- **Crowd-Sourced \$65,000 donation for EPA-certified monitoring instruments, UW-EC Foundation, 9/2014–6/2015.**
- **Invited Keynote Speaker, “Dangers Unseen: Blasting, Ultra-Fine Particles and Human Health,” UW-Eau Claire Davies Center, 11/2013.**
- **Provost’s Honors Symposium for Research, Scholarship, and Creative Activity, “Measurement of Metals in Hair as Predictors of Disease,” 1 May 2013, UW-Eau Claire.**
- **Provost’s Honors Symposium for Research, Scholarship, and Creative Activity, “Airborne Particulate Levels Around Wisconsin Sand Plants,” 1 May 2013, UW-Eau Claire.**
- **Featured toxicology expert, “The Price of Sand” frac sand documentary by Jim Tittle, April 2013.**
- **Fulbright Center Core Award, “Measurement and Source Determination of As, Hg, Pb and Cr in the Hair of Finnish Children,” Research and teaching at the University of Eastern Finland-Kuopio, January–June 2012.**
- **Provost’s Honors Symposium for Research, Scholarship, and Creative Activity, “Measurement of Metals in Hair as Predictors of Disease,” 4 May 2012, UW-Eau Claire.**
- **Provost’s Honors Symposium for Research, Scholarship, and Creative Activity, “Measurement of Outdoor Secondhand Smoke Exposure,” 6 May 2011, UW-Eau Claire.**
- **UW-Eau Claire Authors Celebration, A Physiologically-Based Toxicokinetic Model of Inhalation Exposure to Xylenes in Caucasian Men; Eau Claire, October 2008.**
- **Invited Grant Reviewer, Integration of Biomarkers and PBPK & PBPD Modeling, US Environmental Protection Agency, December 2006, December 2007.**
- **Association of Environmental Health Academic Programs 2006 Undergraduate Student-Faculty Research Award, with student Jared Balkman.**
- **Association of Environmental Health Academic Programs 2005 Graduate Student-Faculty Research Award with Julie Freidhoff.**
- **Invited Author, 2003 Annual Review in Pharmacology and Toxicology**
- **“Key to the City of Snohomish” recipient for environmental conservation volunteer efforts (2002)**
- **KIRO-TV "Hometown Hero" Public Service Award (1995)**
- **Achievement Rewards for College Scientists Award (1991)**
- **National Institutes of Health Training Grant Award (1988-92)**
- **University of California Regents' Fellowship (1974, 1987)**
- **California State Scholarships (1977-80)**

## INVITED PRESENTATIONS

- Pierce, Crispin. Story by Sara Seifert. *UW-EC Students, profs test classroom ventilation before semester starts*. Eau Claire Leader-Telegram. 25 August 2021.
- Pierce, Crispin. Video story by Alyssa Lyons. *UWEC professors and students examine ventilation rates in classrooms*. WQOW TV Eau Claire, WI, 26 August 2021.
- Pierce, Crispin. Video story by Alexa Liacko. *College students test air ventilation on campus to ensure a safe return to school*. TMJ4 Milwaukee, 10 September 2021.
- Particulate Air Quality Around Wisconsin Silica Sand Mines, Skyline Golf Course - Black River Falls, 15 August 2019.
- Particulate Air Quality Around Wisconsin Silica Sand Mines, Midwest Renewable Energy Association Fair, 22 June 2019.
- Particulate Air Quality Around Wisconsin Frac Sand Mines, AFSCME Union retirees, VFW Hall in Eau Claire, 18 June 2019.
- Particulate Air Quality Around Wisconsin Frac Sand Mines, Provost Honors Symposium, UW-Eau Claire, 3 May 2019.
- Air Quality Around Frac Sand Mines, UW-Eau Claire CERCA student research poster session, 2 May 2019.
- Particulate Air Quality Around Wisconsin Frac Sand Mines, Riverland Energy, Arcadia, Wisconsin, 13 April 2019.
- Particulate Air Quality Around Wisconsin Frac Sand Mines, Chippewa Falls Public Library, 15 March 2019.
- Particulate Air Quality Around Wisconsin Frac Sand Mines, Colfax Cozy Theater, 30 March 2019.
- Particulate Air Quality Around Wisconsin Frac Sand Mines, Provost Honors Symposium, UW-Eau Claire, 1 May 2018.
- Air Quality Around Frac Sand Mines, UW-Eau Claire CERCA student research poster session, 2 May 2018.
- Air Quality Around Frac Sand Mines for the GOLDEN BLUGOLD CELEBRATION!, UW-Eau Claire, 5 October 2018.
- Particulate Air Quality Around Wisconsin Frac Sand Mines, Wisconsin Department of Natural Resources, 9 August 2018.
- Environmental Considerations –Air Quality, Sifting the Future: The Ecological, Agricultural, and Health Effects of Frac Sand Mining in Wisconsin Conference, Eau Claire, WI, 14 December 2015.
- Maintaining Air Quality and Air Quality Monitoring Research, A Conference for Frac Sand Activists: Networking, Learning, Advocating; Lake City, MN; 9 May 2015.
- What’s in the Air around Frac Sand Plants? A summary of what has been found so far; Winchester Academy; Waupaca, WI; 23 February 2015.

- Airborne Particulates Around Frac Sand Plants; Chippewa Valley Sierra Club; Eau Claire, WI; 3 December, 2014.
- Ability for Frac Sand to Emit Crystalline Silica – Potential Health Risks, Frac Sand Mining – Environmental Research Webinar, Society for Mining, Metallurgy and Exploration, June 2014.
- Frac Sand Mines, Dust Generation, and Regulation of Ambient Air Concentrations of Silica/Particulates, Environmental and Health Science of Industrial Sand Mining, HalfMoon Seminars webinar, April 2014.
- Making the Connection 2013: Particulate Health Risk from Frac Sand Mining and Processing, Physicians for Social Responsibility, Madison, WI, 15 February 2013.
- The Nuclear Accident at Chernobyl: Health Effects; Kompassi Multicultural Center, Kuopio, Finland; June 2012.
- Potential Health Risks from the Proposed Sand Mine and Processing Plant in Preston Township, Town of Blair Meeting, January 18, 2010.
- Identifying Home Environment Hazards, Northwest Sustainable Living Fair, Abstract published in Fair Presentations Guide, <http://www.nwwisustainablelivingfair.com/NWWSLF09-talkdesc.pdf>, July 26, 2009.
- Known Causes of Breast Cancer; Charter Communications organizing committee for the 2009 Women Rock in the Fight Against Breast Cancer event ([http://charterwomenrock.com/index\\_eauclaire.html](http://charterwomenrock.com/index_eauclaire.html)), July 13, 2009.
- Health Consequences of Energy Choices; Midwest Renewable Energy Association Fair, Abstract published in MREA Fair Presentations Guide, <http://www.the-mrea.org/download/EF09workshops.pdf>, June 19, 2009.
- Potential Health Risks from the Proposed Sand Processing Plant in Chippewa Falls, Concerned Chippewa Citizens Public Forum, Chippewa Falls Middle School, February 19, 2009.
- Basic Environmental Health Practice for Public Health Nurses: Climate Warming, GPS Tools & Public Health Strategies, Linking Education and Practice for Excellence in Public Health Nursing Project, Eau Claire and Marshfield, WI, October 2008.
- Health Effects of Global Climate Change, Midwest Renewable Energy Association Fair, Custer, WI, June 2008.
- **Keynote Speaker**, Energy, Agriculture and Environment; Northwest Wisconsin Regional Food Network/Hunt Hill Audubon Society Soup Stock 2007, Sarona, WI, September 2007.
- Modeling How the Human Body Handles Drugs and Toxicants; given at the University of Wisconsin-Barron County; February 2006.
- Balancing Act: Planning for a Sustainable Wisconsin; Wisconsin Public Radio “The West Side” program; January 2006.
- The Causes and Risks of Population Growth; given at the Eau Claire World Cultural Center meeting; October 2004.
- Modeling How the Human Body Handles Drugs and Toxicants; given at the University of Wisconsin-Eau Claire Faculty / Academic Staff Forum; October 2004.

- **Conference Presenter** — EPA MTBE Route-to-Route Extrapolation Issues Specialty Workshop (2000)
- **Lecturer** — Department of Environmental Health Seminar (1999)
- **Presenter** — Northwest Occupational Health Conference (1998)  
<http://depts.washington.edu/~digital/breath/>
- **Presenter** — ACGIH Biological Exposure Index Committee Meeting (1997)  
<http://depts.washington.edu/~digital/bei>

## PRESENTATIONS

- Air Quality Around Wisconsin Frac Sand Mines: Industry and Academic Research Findings, National Environmental Health Association, San Antonio, TX, June 2016.
- Frac Sand Research Update: Particulate Health Risks, Midwest Renewable Energy Association Fair, Custer, WI, June 2014.
- Airborne Particulate and Silica Health Risks from Sand Mining and Processing, Midwest Renewable Energy Association Fair, Custer, WI, 22 June 2013.
- Biological Monitoring and Environmental Education; University of Eastern Finland-Kuopio; January 25, 2012.
- Antibiotic Resistance in Septic Effluent; Crispin Pierce, Sasha Showsh, Eli Gottfried, Tola Ekunsanmi, Michael Checkai, Jay Nielsen, Jacob Schafer, Michael Servi and Matt Haak. National Environmental Health Association Region IV Meeting, Rochester, MN; September 2011.
- DISASTER IN COLUMBUS: Environmental Health Tracking, Sand Mining and Processing: Crystalline Silica Health Risks, Antibiotic Resistance in Septic Effluent (3 presentations) National Environmental Health Association Annual Conference, June 2011.
- Secondhand Smoke Exposure at UW-EC, 13th Annual Public Health Nursing Conference on Stevens Point, WI, 17 August 2010.
- Sustainable Energy Choices, UW-Eau Claire Classified Staff Professional Development Day, January 13, 2010.
- Hands-On Environmental Health: Global Warming, Water Pollution, Air Pollution and More (with Avala Pierce), Keeping the EE in Green: To Learn, To Live, To Act conference, <http://www.uwsp.edu/cnr/waee/Events/Fall.aspx>, October 24, 2009
- AAC&U Educating for Personal and Social Responsibility Conference "Sustainable Student Commitment through Campus Earth Day Events" (with students Hickory Tate and Katrina Smith and George Savage, UWW Faculty) <http://www.aacu.org/meetings/PSR09/index.cfm>. October 2, 2009.
- Health Consequences of Energy Choices. Midwest Renewable Energy Association Fair, Custer, WI, June 2009.

- ENPH Magic (fourteen video clips demonstrating environmental health principles and equipment); Crispin Pierce, Jay Nielsen and Emily Nispel; Eau Claire Community Television Channel 11; January, October 2008.
- Climate Change and Public Health: The Basics. Midwest Renewable Energy Association Fair, Custer, WI, June 2008. Abstract published in MREA Fair Presentations Guide. C.H. Pierce.
- Human Health Effects of Global Climate Change; Crispin Pierce; UW-Eau Claire “Let’s Do Lunch” community presentation, February 2008, Sweetwaters Restaurant, Eau Claire, WI.
- Environmental Health Risks of Energy Sources. Midwest Renewable Energy Association Fair, Custer, WI, June 2007. Abstract published in MREA Fair Presentations Guide. C.H. Pierce.
- TBA in Breath as a Biological Indicator of MTBE Exposure; Jared Balkman, Darin Mohr, and Crispin Pierce; student-faculty research presentation; National Environmental Health Association meeting; San Antonio, TX; June 2006.
- Smart Growth; Crispin Pierce; Wisconsin Public Radio “West Side” Show, January 2006
- Balancing Act: Planning for a Sustainable Wisconsin; Crispin Pierce; UW-Eau Claire “Let’s Do Lunch” community presentation, December 2005, Sweetwaters Restaurant, Eau Claire, WI.
- Global Climate Change; Crispin Pierce; UW-Eau Claire “First Fridays” community presentation, November 2005, First Christ Cathedral Church, Eau Claire, WI.
- TBA in Breath as a Biological Indicator of MTBE Exposure; Jared Balkman, Darin Mohr, and Crispin Pierce; Merck Undergraduate Research Symposium, August 2005, University of Wisconsin-Eau Claire.
- Toxicokinetics of Methyl Tertiary Butyl Ether; Erin Moritz, Karen Bartosh, Kristin Hardy, Chris Judkins-Fisher, and Crispin Pierce; Merck Undergraduate Research Symposium, August 2004, University of Wisconsin-Eau Claire.
- Biological Monitoring of Controlled MTBE and ETBE Exposure; interview seminar at Western Illinois University, University of Arkansas - Pine Bluff, and University of Wisconsin - Eau Claire; April –May 2003.
- Toxicant Metabolism; interview seminar at Wingate University; April 2003.
- Population Stabilization; Invited presentation to the UW Community Oriented Public Health Program MPH students; February 2002.
- Toluene Metabolites as Biological Indicators of Exposure; Society for Risk Analysis Meeting; Seattle, WA; December 2001.
- Exponential Modeling, Washout Curve Reconstruction, and Estimation of Half-Life of Toluene and its Metabolites; Society for Risk Analysis Meeting; Seattle, WA; December 2001.
- Toxicokinetics of Chlorpyrifos; UW Quantitative Risk Assessment Meeting; Seattle, WA; June 2001.
- Breath Sampling to Estimate Absorbed Dose: Examples with Toluene, Ethanol and MTBE; interview presentation at California State University, Los Angeles; Indiana-Purdue University, Fort Wayne; University of Illinois at Springfield; Washington State University; University of the Pacific; Capital University; January–April 2001.

- Initial Physiologic Modeling of  $^2\text{H}_{12}$ -MTBE Toxicokinetics: Clearance, Volume and Half-Life, US EPA MTBE Route-to-Route Extrapolation Issues Specialty Workshop; Research Triangle Park, NC; May 2000.
- Modeling Organophosphate Pesticide Toxicokinetics; UW Child Health Center Advisory Committee Meeting; Seattle, WA; February, 2000
- Breath Sampling to Estimate Absorbed Dose: Examples with Toluene, Ethanol and MTBE; Northwest Occupational Health Conference; October 1999.
- Variability in Physiologic Modeling; UW Quantitative Risk Assessment Meeting; Seattle, WA; May, 1999.
- Breath Sampling to Estimate Absorbed Dose: Examples with Toluene, Ethanol and MTBE Department of Environmental Health seminar; April 1999.
- Biological Monitoring of Controlled Toluene Exposure; ACGIH Biological Exposure Index Committee Meeting; May 1997; Seattle WA.
- Modeling Toluene Metabolism in Humans: Deuterium Isotope Effects and Contributions from the Ambient Environment; Lewandowski, Thomas A., Crispin H. Pierce, and David A. Kalman; Pacific Northwest Association of Toxicologists meeting; September 1996.
- The Effects of Gender on the Toxicokinetics of Toluene; Mar, Therese F., Crispin H. Pierce, Michael S. Morgan, Russell L. Dills, Danny D. Shen, and David A. Kalman; Pacific Northwest Association of Toxicologists meeting; September 1996.
- Intestinal CYP3A-Mediated Metabolism of Midazolam Following Oral and IV Drug Administration in Normal and Anhepatic Subjects; Thummel, Kenneth E., Mary F. Paine, Danny D. Shen, Crispin H. Pierce, and Grant R. Wilkinson; American Association of Pharmaceutical Scientists (AAPS) meeting; Nov. 1995.
- Measurement of Toluene in Blood Coupled With Physiologic Modeling to Estimate Environmental Exposure Rates. International Congress on Toxicology, July 1995.
- Application of Biological Monitoring to Evaluation of Background Exposure to Indoor Air Quality. Invited presentation to the Seattle Indoor Air Investigators Association meeting, March, 1995.
- Controlled Toluene Exposure: Correlation of Physiologic Variables With Calculated Parameters Using Compartmental And Physiologic Models. American Association of Pharmaceutical Scientists (AAPS) meeting, Nov. 1993.
- Modeling Interindividual Toxicokinetics of Toluene. Pacific Northwest Association of Toxicologists (PANWAT) meeting, Sept. 1993.
- Modeling Interindividual Toxicokinetics of Toluene. American Association of Pharmaceutical Scientists meeting, 1993.
- Modeling Interindividual Toxicokinetics of Toluene. Pacific Northwest Association of Toxicologists meeting, 1993.
- The Toxicokinetics of Styrene; Northern California Society of Toxicology, Spring Meeting 1992 (Best Student Presentation Award).

- Toxicokinetics of Styrene: Acute Neurotoxicity. American Association of Pharmaceutical Scientists meeting, New Orleans, LA, 1992.

## STUDENT PRESENTATIONS

- Investigating The Predictive Function of the Detection and Analysis of Covid-19 mRNA In Wastewater. Alex Barker, Laura Horstman, Logan Anderson, Jordan Corrigan, and Crispin Pierce. UWEC Provost Honors Symposium, April 2022.
- Measurement of Air Exchange Rate to Reduce COVID-19 Transmission. Danielle Zahn, Breanna Wiese, Annika Yoney, Emily Fountas, Brooke Jahner, Ariez Crawford, Zach Streeter, Madeline Erickson, Dr. Jim Boulter, and Dr. Crispin Pierce. UWEC Provost Honors Symposium, April 2022.
- Investigating The Predictive Function of the Detection and Analysis of Covid-19 mRNA In Wastewater. Alex Barker, Laura Horstman, Logan Anderson, Jordan Corrigan, and Crispin Pierce. National Environmental Health Association Conference, May 2022.
- Addressing Public Concerns About Frac Sand Mining in West Central Wisconsin Through Community Outreach and Air Monitoring Analysis. Madaline Massetti, Reggie Eggen, Katrina Kawak, Mark Larsen, Kasee Meyer, Joseph Vue, and Crispin Pierce. UWEC CERCA Conference, May 2021.
- COVID-19 In Wastewater. Claire Buttler, Sydney McGuine, Ryan Mohr, Hannah VonRuden, Trevor Sigdahl and Crispin Pierce. UWEC CERCA Conference. May 2021.
- Addressing Public Concerns About Frac Sand Mining in West Central Wisconsin Through Community Outreach and Air Monitoring Analysis. Madaline Massetti, Reggie Eggen, Katrina Kawak, Mark Larsen, Kasee Meyer, Joseph Vue, and Crispin Pierce. UWEC Provost Honors Symposium, April 2021.
- Air Quality and Frac Sand Mining in Western Wisconsin. Mark Larsen, Kasee Meyer, Claire Buttler and Crispin Pierce. Augusta, WI Public Library, September 2021.
- Addressing Public Concerns About Frac Sand Mining in West Central Wisconsin Through Community Outreach and Air Monitoring Analysis. Kasee Meyer, Madaline Massetti, Reggie Eggen, Katrina Kawak, Mark Larsen, Joseph Vue, and Crispin Pierce. National Environmental Health Association Conference (online). May 2021.

## PROFESSIONAL ACTIVITIES

### Manuscript Reviewer (1995-2018)

- *International Journal of Environment and Pollution (IJEP)*
- *Journal of Occupational and Environmental Hygiene*
- *Risk Analysis*
- *Toxicology and Applied Pharmacology*
- *Journal of Pharmaceutical Sciences*
- *Drug Metabolism and Disposition*
- *Journal of Occupational and Environmental Health, Toxicological Sciences,*
- *International Archives of Occupational and Environmental Health.*
- *Journal of Pharmacokinetics and Pharmacodynamics*

### Grant Reviewer

- US Environmental Protection Agency, *Interpretation of Biomarkers Using Physiologically Based Pharmacokinetic Modeling* (2006), *Integration of Biomarkers and PBPK & PBPD Modeling* (2007)
- U.S. Civilian Research & Development Foundation (2003)

- American Institute of Biological Sciences (2000)

### **Leadership and Membership in Professional Organizations**

- Wisconsin Environmental Health Association (2008–14).
- Participation on National Environmental Health Association Workforce Development Committee (2005–2006).
- Organization of Spring 2006 Wisconsin Environmental Health Association Meeting, April 2006, Eau Claire, WI.
- National Environmental Health Association member (2005–14).
- State of Wisconsin Environmental Health Steering Committee member (2003–06)
- Presentation Adjudicator and Session Chair - Pacific Northwest Association of Toxicologists (PANWAT), Annual Meeting 1993
- Pharmacokinetics for Pharmaceutical Scientists course, Workshop Leader (1991–92)
- Presenter at U.C. Toxic Substances Program Research & Teaching Symposium (1988–89)
- Member of the American Association of Pharmaceutical Scientists, International Society for the Study of Xenobiotics, PANWAT, National Environmental Health Association, and Wisconsin Environmental Health Association.

### **Consulting**

- Dichloroethylene exposure and risk assessment from spray foam insulation exposure; Davis Kuelthau, 111 E Kilbourn Ave., Suite 1400, Milwaukee, WI 53202 (2017-19).
- Particulate pollution and exposure from a Napa CA quarry; Greenfire Law, 2550 Ninth Street, Ste. 204B, Berkeley, CA 94710 (2018).
- Dioxin and uterine adenocarcinoma. Davis Kuelthau, 111 E Kilbourn Ave., Suite 1400, Milwaukee, WI 53202 (2018).
- Whey waste ammonia exposure and risk assessment for neighborhood resident, Friebert, Finerty & St. John, S.C., 330 East Kilbourn Ave. Suite 1250, Milwaukee, WI 53202, www.ffsj.com (2013–14).
- TCDD/PCP Cancer Risk Assessments for workers and neighborhood residents, Friebert, Finerty & St. John, S.C., 330 East Kilbourn Ave. Suite 1250, Milwaukee, WI 53202, www.ffsj.com (2007–18).
- Slurrystore tank sampling and airborne toxicant generation, Knoke, Ingebritsen & Kind Law Office, 1904 10th Street, Monroe, WI 53566 (2017–18).

## **SERVICE ACTIVITIES**

### **Student Recruitment Activities**

- UW-Eau Claire Homecoming Parade (2004–19), **First Place Award**-Non-Musical Marching Unit (2006), **First Place Award** (2008), **Second Place Award** (2009), **First Place Award** (2011), **First Place Award** (2013), **Second Place Award** (2014), **First Place Award** (2015-2019).
- The UWEC ENPH major presentation at Memorial High School (2015-2019).
- Hands-On ENPH Discovery Activities for the Sam Davey Elementary STEAM fairs (2018-2019).
- Association of Environmental Health Academic Programs Newsletter article: “Measuring Airborne Particulates during Frac Sand Mining and Processing: Faculty-Student Research,” Winter 2014.

- BluGold Preview Days and Majors/Minors Fairs Fall 2012-Fall 2017.
- Association of Environmental Health Academic Programs Newsletter article: “UW-Eau Claire Students Help with Neighborhood Tree Planting Program,” winter 2012.
- Association of Environmental Health Academic Programs Newsletter article: “University of Wisconsin-Eau Claire Students Active in Research and the Community,” March 2010.
- Facebook Web Page Administrator (<http://www.facebook.com/pages/Eau-Claire-WI/UW-Eau-Claire-Environmental-Public-Health-Program/11586428308>)
- Bluegold Organization Bash (2004–14)
- UW-Eau Claire Preview Days (2007–14)
- All Majors Fair (2003–12)
- UW-Eau Claire Career Services Explore Your Possibilities presentations (2005–12).

### **Campus Service Activities**

- Member, Faculty Termination and Grievance Committee, 2014--2019.
- Member, Institute Personnel Evaluation Committee, 2014--2019.
- Institute Representative to the UWEC Faculty Senate, 2017—2018.
- Member, Institutional Review Board for human subject protection (2015--2018).
- Science, Technology, Engineering and Math (STEM) camp instructor, UW-Eau Claire, summers 2013, 2014.
- Girl Scouts of America STEM camp instructor, UW-Eau Claire, July 2014.
- Member, ENPH Curriculum Committee, 2003–2014.
- Member, Institute for Collaborative Environmental Studies Steering Committee, 2012-2013.
- Chair, ENPH faculty search committee, 2012-2013.
- Blugold Beginnings workshops: hands-on ENPH workshops for ECASD Fifth grade students, 2010–2011, 2013, 2014.
- Spring 2010–2012 Registered Environmental Health Specialist preparation exam question review: six review sessions linking current ENPH students and alumni/environmental health professionals.
- 2009–2014 “SNEHA Pizza Lunches” and “ENPH Pizza Seminars” linking current ENPH students to alumni and regional environmental health professionals through ten lunchtime presentations.
- UWEC Continuing Education Great Explorations in Math and Science (GEMS) workshop for grades 4–8: “Protecting Our Health,” 2010–2012.
- ENPH Course curriculum revision, September–December 2009.
- Faculty adviser for the Conservationist Club and the Student National Environmental Health Association (SNEHA) student organizations (2004–2019).
- Faculty adviser for UW-Eau Claire Sustainability Days (October 2008, 2009), organized by SNEHA, The Conservationists, Foodlums, and Hobnailers student organizations.
- Clean Commute Initiative Member (2006–2007) and Co-chair (2008–2010)
- College of Nursing and Health Sciences Facilities and Technology Committee (2004–2012)
- College of Nursing and Health Sciences representative on the UW-Eau Claire Service Learning Committee (2008–10)
- College of Nursing and Health Sciences By-Laws Committee (2007–2008)
- ENPH Program Director (2003–2013)
- College of Nursing and Health Sciences Dean Search and Screen Committee member (2008, 2009, 2010–2011)

- Chair of Environmental Public Health Program Tenure Track Faculty Search and Screen Committee (2007–08)
- UW-Eau Claire Institute Committee member (2006–2013)
- University Administrator Review Committee member (2007)
- Chair of Environmental Public Health faculty position search and screen committee (2005–2006)
- Chair of Environmental Public Health External Advisory Committee meeting (2005–2013)
- Service as an adviser to students in the Environment, Society and Culture minor (2005–13)
- Environmental Public Health Program Tenure Track Faculty Search and Screen Committee chair (2004–05)
- Achievement of accreditation for the undergraduate and graduate UW-Eau Claire Environmental Public Health Programs (2004–2005, 2010–2011).
- College of Nursing and Health Sciences Associate Dean Search Committee (2004–5).
- ENPH Course curriculum revision, Spring 2004.

**Community Service Activities (details available upon request)**

- Featured speaker on Wisconsin Public Radio “At Issue” Program on frac sand mining, 15 March 2013, [http://wpr.org/search/ideas\\_program\\_search.cfm?StartYear=3&keyword=crispin&x=0&y=0](http://wpr.org/search/ideas_program_search.cfm?StartYear=3&keyword=crispin&x=0&y=0)
- Background Particulate Level Monitoring for Winona County, MN, January 2013.
- Community Meeting “Particulate Health Risks from Sand Mining & Processing,” Town of Eleva-Strum, WI, 24 July 2012.
- Public Hearing Testimony “Frac Sand Mining and Processing Health Concerns,” for the Town of Sumner, WI, 13 September 2011.
- Informational Meeting “Sand Mining and Processing Health Concerns,” Prairie Farm WI, 10 August 2011.
- Public Hearing Testimony “Potential Health Risks from the Proposed Larkin Valley Sand Mine and Processing Plant: Silica,” for the Trempealeau County Environment and Land Use Committee Whitehall, WI, June 9, 2010.
- Review of Environmental Impact Statement for the proposed Winn Bay sand mine and processing plant, for the Town of Preston, April 2010.
- Literature review of crystalline silica health risks and regulations for the Wisconsin Department of Natural Resources, January–April 2010.
- Public Hearing Testimony, Potential Health Risks from the Proposed Sand Mine and Processing Plant in Preston Township,” for the Preston/Blair Town Board, January 18, 2010.
- UW-Eau Claire “Labor of Love” community removal of invasive species in Putnam Park, September 7, 2009.
- Public Hearing Testimony, “Analysis And Preliminary Determination For The Construction Permit for the Proposed Construction of a Sand Processing Plant and Industrial Sand Mine,” Chippewa Falls, WI, May 19, 2009.

- Organizer, Community Tree Planting at Kappus Park, with the UW-Eau Claire Conservationists and the City of Eau Claire. Planted 60 native trees and shrubs in the Third Ward Kappus Park for beautification and reduction in areas needed to be mowed by the city. May 9, 2009.
- Public Meeting Presentation “Potential Health Risks from the Proposed Sand Processing Plant in Chippewa Falls,” Chippewa Falls Middle School. February 19, 2009.
- Health risk assessment for Concerned Chippewa Citizens on proposed sand processing plant in Chippewa Falls, WI, January–February 2009.
- Service on City of Eau Claire Sustainability Amendment to Comprehensive Plan Committee, Eau Claire, WI, November–December 2008.
- Eau Claire Earth Day Celebration Planning Committee member (2005–10).
- Adventure Girls (at-risk elementary school girl’s self-esteem program) Hip-Hop dance workshops (2005–09).
- Television interview on “Taking a Look at Old Landfill Sites in Western Wisconsin, Eau Claire, WI NBC affiliate WEAU, June, 2007.
- Television interview on “Tips for Greening Up Your Yard and Your Car,” Eau Claire, WI NBC affiliate WEAU, May 16, 2007.
- Chippewa Valley Boys and Girls Club volunteer instructor (January 2007)
- Chippewa Valley Sustainable Energy Association committee (2005–2007)
- Third Ward Neighborhood Association Parks Committee (2005–2006)
- City of Eau Claire Native Grasses Ordinance Committee (2005–2006)
- Service on the Friends of Half Moon Lake committee (October 2004–2006).
- Television interview on waterborne diseases associated with December 2004 Indian Ocean Tsunami, Eau Claire, WI ABC affiliate WQOW, December 30, 2004.
- Television interview on waterborne diseases associated with December 2004 Indian Ocean Tsunami, Eau Claire, WI NBC affiliate WEAU, December 29, 2004.
- 2004 Eau Claire Earth Day Committee member, November 2004–April 2005.
- Television interview on US Administration interpretation of scientific research, Eau Claire, WI public access CVCTV, October 5, 2004.
- Television interview on US Administration interpretation of scientific research, Eau Claire, WI NBC affiliate WEAU, August 17, 2004.
- Presentation on mercury toxicity and source reduction for WIPIRG press conference, July 22, 2004 at Half Moon Lake, Eau Claire, WI.
- Organization and presentation of ENPH interactive display for Kids’ Day America 2003, September 20, at Kyle Anderson’s Chiropractic Clinic in Altoona, WI:  
<http://www.uwec.edu/AH/ENPH/kidsday.htm>
- Creation and web posting of environmental conservation presentations (November 2002):
  - "The Causes and Risks of Population Growth": <http://faculty.washington.edu/digital/Population>
  - "Native Vegetation Alternatives to Urban Turf,":  
<http://faculty.washington.edu/digital/UrbanTurfAlternatives>
- Presentation of six education seminars on various environmental health issues (2002–present).
- Presentation of expert testimony on 22 environmental conservation proposals and policies in King and Snohomish Counties, WA (1997–2003).
- Leadership of 13 native revegetation projects in the Cities of Seattle and Snohomish, WA (1997–2003).

- Service contributions in 13 legislative policy projects in the City of Snohomish, WA (1998–2003).
- Publication of 30 letters to the editor (*Seattle Times*, *Seattle Post-Intelligencer*, *Everett Herald*, *Eau Claire Leader-Telegram*) and two informational displays on environmental conservation (*Snohomish City Hall*, *Pilchuck Audubon Society*, *Snohomish Public Library*) (1997–present).
- Public Hearing Testimony “Emissions of Dioxins and Furans and Associated Health Risks for the Proposed Municipal Incinerator–City of Philadelphia, PA.” For the Philadelphia City Council, ca October 1986.

## TECHNICAL SKILLS

- Electromagnetic Field Strength Detector
- Microwave Field Strength Detector
- Personal Protective Equipment (respirator, gloves, suit)
- Noise Dosimeter
- Physiologically-Based Pharmacokinetic Modeling
- Animal Dosing and Tissue Sampling Studies
- Human Clinical Studies, Tissue Collection and Analysis
- Capillary Gas Chromatography (Flame Ionization and Electron Capture Detection)
- Liquid Column Chromatography
- Infrared Spectrophotometry
- Mass Spectrometry
- Nuclear Magnetic Resonance
- Chemical Separation and Purification

## COMPUTER & LANGUAGE LITERACY

- Google Sites, Facebook, RSS feed, and Twitter feed creation for course support.
- Desire 2 Learn course creation.
- Academic Course Web Page Design
- Mainframe: FORTRAN, C, ACSL, Simusolv<sup>®</sup>.
- PC/Windows: PopKinetics, SAAM II, SPSS, PCCAL (pharmacokinetic simulations), Supercalc, Turbopascal, Wordperfect, Word.
- Macintosh: SAAM II, Hypertalk (Hypercard), Excel, Word, Statview II, Statistica, Deltagraph, Cricketgraph, STELLA.
- Spanish: Near fluency.

## BIBLIOGRAPHY

### Research Papers in Refereed Journals

*Published*

- Pierce, CH. Environmental Health Innovations During the COVID-19 Pandemic (honorable mention). *Journal of Environmental Health*. (2021; 84 (4): 32–39).
- Pierce CH, Fuhrman E, Xiong-Yang P, Kentnich J, Husnik P, Dahlen J, Liang R, Awad J.; Monitoring of Airborne Particulates Near Industrial Silica Sand Mining and Processing Facilities. *Arch Environ Occup Health*. (2019;74(4):185–196).
- Pierce, Crispin H., Kristin Walters, Jeron Jacobson, and Zachary Kroening; PM2.5 Airborne Particulates near Frac Sand Operations; *J Environ Health*, Featured article, 8–12 (2015).
- Adams, Julie C., Russell L. Dills, Michael S. Morgan, David A. Kalman, and Crispin H. Pierce; A Physiologically-Based Toxicokinetic Model of Inhalation Exposure to Xylenes in Caucasian Men; *Reg Toxicol Pharmacol*, 43:203–214 (2005).
- Pierce, Crispin H., Yili Chen, William Hurtle, and Michael S. Morgan; Exponential Modeling, Washout Curve Reconstruction, and Estimation of Half-Life of Toluene and its Metabolites. *Journal of Toxicology and Environmental Health* 67(14):1131-58 (2004).
- Lewandowski, T.A., Crispin H. Pierce, Stephanie M. Pingree, S. Hong and Elaine.M. Faustman; Methylmercury Distribution In The Pregnant Rat And Embryo During Early Midbrain Organogenesis. *Teratology* 66 (5):235-241 (2002).
- Pierce, Crispin H., Yili Chen, Russell L. Dills, David A. Kalman and Michael S. Morgan; Toluene Metabolites as Biological Indicators of Exposure. *Toxicology Letters* 129:65–76 (2002).
- Sanga, Ravi N., Scott M. Bartell, Rafael A. Ponce, Ana A.P. Boischio, Claude R. Joiris, Crispin H. Pierce, and Elaine M. Faustman; Effects of Uncertainties on Exposure Estimates to Methylmercury: A Monte Carlo Analysis of Biomarkers of Exposure vs. Predictive Dietary Estimation. *Risk Analysis* 21(5) (2001).
- Vicini, Paolo, Crispin H. Pierce, Russell L. Dills, Michael S. Morgan, and David A. Kalman; Individual Prior Information in a Physiological Model Of <sup>2</sup>Hg-Toluene Kinetics: An Empirical Bayes Estimation Strategy; *Risk Anal*19:1127-1134 (1999).
- Pierce, Crispin H., Thomas A. Lewandowski, Russell L. Dills, Michael S. Morgan, Mike A. Wessels, Danny D. Shen, and David A. Kalman; A Comparison of <sup>1</sup>Hg- And <sup>2</sup>Hg-Toluene Toxicokinetics in Humans; *Xenobiotica* 29: 93–108 (1999).
- Pierce, Crispin H., Russell L. Dills, Michael S. Morgan, Paolo Vicini, and David A. Kalman; Biological Monitoring of Controlled Toluene Exposure; *Int Arch Occup Environ Health*, 71: 433–444 (1998).
- Pierce, Crispin H., Charles E. Becker, Thomas N. Tozer, Deborah Owen, and Yuen So; Modeling the Acute Neurotoxicity of Styrene; *J Occ Environ Med* ; 40:230–240 (1998).
- Pierce, Crispin H., Russell L. Dills, Thomas A. Lewandowski, Michael S. Morgan, Mike A. Wessels, Danny D. Shen, and David A. Kalman; Estimation of Background Exposure To Toluene Using A Physiologically-Based Kinetic Model; *J Occup Health*, 39:130–137 (1997).
- Pierce, Crispin H., Russell L. Dills, Michael S. Morgan, Greg L. Nothstein, Danny D. Shen, and David A. Kalman; Interindividual Differences in <sup>2</sup>Hg-Toluene Toxicokinetics Assessed by a Semi-Empiric Physiologically-Based Model; *Toxicol Appl Pharmacol*, 139:49–61 (1996).

- Pierce, Crispin H., Dills, Russell L., Silvey, Guy W., and David A. Kalman; Partition Coefficients Between Human Blood or Adipose Tissue and Air for Aromatic Solvents; *Scand J Work Environ Health*; 22:112–118 (1996).
- Pierce, Crispin H. and Thomas N. Tozer; Styrene in Adipose Tissue of Non Occupationally-Exposed Persons; *Environmental Research*, 58:230-235 (1992).
- Pierce, Crispin H.; Integration of Pharmacology and Toxicology (Editorial); *Regulatory Toxicology and Pharmacology*, 16:213-214 (1992).
- Pierce, Crispin H. Increasing the Role of Toxicology in the Pharmaceutical Sciences; *American Association of Pharmaceutical Scientists* newsletter (March 1991).

### ***Conference Abstracts***

- PM2.5 Levels Around Frac Sand Operations in Wisconsin, Midwest Renewable Energy Association Fair, Custer, WI, June 2019.
- Frac Sand Research Update: Particulate Health Risks, Midwest Renewable Energy Association Fair, Custer, WI, June 2014.
- Airborne Particulate and Silica Health Risks from Sand Mining and Processing, Midwest Renewable Energy Association Fair, Custer, WI, 22 June 2013.
- Antibiotic Resistance in Septic Effluent; Crispin Pierce, Sasha Showsh, Eli Gottfried, Tola Ekunsanmi, Michael Checkai, Jay Nielsen, Jacob Schafer, Michael Servi and Matt Haak. National Environmental Health Association Region IV Meeting, Rochester, MN; September 2011.
- Health Consequences of Energy Choices; Midwest Renewable Energy Association Fair, <http://www.the-mrea.org/download/EF09workshops.pdf>, June 19, 2009.
- DISASTER IN COLUMBUS: Environmental Health Tracking; Sand Mining and Processing: Crystalline Silica Health Risks; and Antibiotic Resistance in Septic Effluent (3 presentations) National Environmental Health Association Annual Conference, June 2011.
- Health Risks from Frac Sand Mining for Oil and Gas Extraction. . Midwest Renewable Energy Association Fair, Custer, WI, June 2010.
- Health Consequences of Energy Choices. Midwest Renewable Energy Association Fair, Custer, WI, June 2009.

### ***In Preparation***

- Pierce, Crispin H., Dills, Russell L., Balkman, Jared M., Mohr, Darin G., Morgan, Michael S.; Tertiary-Butyl Alcohol in Breath as a Biological Indicator of Methyl Tertiary-Butyl Ether Exposure.
- Bartell, Scott M., Shirai, Jeffrey H., Pierce, Crispin H., and John C. Kissel; Estimation of Childhood Residential Soil Ingestion Rates Using Soil Lead Abatement Data; *Environmental Health Perspectives*.

Pierce, Crispin H., and Russell L. Dills; Testing a Physiologic Model's Lack of Fit

Mar, Therese, and Crispin H. Pierce; Anthropometric Factors Affecting Toluene Toxicokinetics in Men and Women Subjects

### Student Web Publications Suitable for UWEC Undergraduate Portfolio (Selected)

- Polychlorinated Biphenyls in the Fox River, Wisconsin
  - <http://www.uwec.edu/piercech/PCBs>
- Toxic Household Plants
  - <http://www.uwec.edu/piercech/Plants>
- Health Risks of Mercury as a Water Contaminant
  - [http://www.uwec.edu/piercech/Hg/mercury\\_water](http://www.uwec.edu/piercech/Hg/mercury_water)
- Toxicological Profile of Mercury
  - [http://www.uwec.edu/piercech/Hg/mercury\\_tox](http://www.uwec.edu/piercech/Hg/mercury_tox)
- Solid Waste Health Risks
  - <http://www.uwec.edu/piercech/Waste>
- Fetal Alcohol Effects
  - <http://www.uwec.edu/piercech/FAS/home.htm>
- Potential Bioterror Agents in Water Supplies
  - <http://www.uwec.edu/piercech/Terror/homepage.htm>
- Electromagnetic Fields and Potential Cancer Risk
  - <http://www.uwec.edu/piercech/EMF>
- Cryptosporidium Disease Outbreaks
  - <http://www.uwec.edu/piercech/Crypto>
- Toxicogenomics
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