

CURRICULUM VITAE

CARLA M. KORETSKY

Dean

College of Arts and Sciences

Professor

Department of Geological and Environmental Sciences
School of the Environment, Geography, and Sustainability

Western Michigan University
Kalamazoo, MI 49008 USA

EDUCATION

- 1998 Ph.D. Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD
Dissertation Title: "Surface sites on oxide and silicate minerals: Detection with diffuse reflectance FTIR spectroscopy, predictions from crystal chemistry, and implications for silicate dissolution rates"
- 1995 M.A. Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD
- 1992 B.A. Earth and Planetary Sciences, Washington University in St. Louis, St. Louis, MO
Cum Laude
Minors: Economics and Music Performance
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PROFESSIONAL EXPERIENCE

Administrative Positions

- 2016-present *Dean*, College of Arts and Sciences, Western Michigan University
- 2013-2016 *Dean*, Lee Honors College, Western Michigan University
- 2012-2013 *Associate Dean*, Lee Honors College, Western Michigan University

Academic Positions

- 2011-present *Professor*, Geological and Environmental Sciences Department & School of the Environment, Geography, and Sustainability, Western Michigan University
- 2005-2011 *Associate Professor*, Geosciences Department & Environmental Studies Program, Western Michigan University
- 2001-2005 *Assistant Professor*, Environmental Studies Program, Western Michigan University
- 2000-2005 *Assistant Professor*, Department of Geosciences, Western Michigan University
- 1999-2000 *Research Scientist*, School of Earth and Atmospheric Sciences, Georgia Institute of Technology
- 1998-1999 *Postdoctoral Fellow*, School of Earth and Atmospheric Sciences, Georgia Institute of Technology
- 1997 *Lecturer*, Geography and Geology Department, University of North Carolina, Charlotte

Editorial Positions

2012-2016 *Editor-in-Chief, Chemical Geology*

2009-2012 *Editor-in-Chief, Geochemical Transactions*

AWARDS & RECOGNITION

2020	Michigan ACE Network Distinguished Woman in Higher Education Leadership Award
2019	Crain's Notable Women in STEM
2016	Honorary Membership, Phi Beta Kappa Honors Society
2014	Geochemical Society Distinguished Service Award
2013	WMU Excellence in Diversity Rising Star Award
2013	WMU College of Arts & Sciences Faculty Achievement in Teaching Award
2012	WMU Department of Geosciences Appreciation Award
2010	Wheeling High School Distinguished Alumni Award
2007	WMU College of Arts & Science Dean's Staff and Faculty Appreciation Award
2007	WMU Geosciences Alumni Association Outstanding Faculty Award
2007	WMU Emerging Scholar Award
2006	WMU Provost's Award for Excellent Sabbatical Application
2005	Honorary Membership, Phi Kappa Phi Honors Society
2004	National Science Foundation CAREER Grant Recipient
1992	Ernest Ohle, Jr. Award for Academic Excellence (Top Graduating Senior), Earth & Planetary Sciences Department, Washington University in St. Louis
1991	Florence Moog Award for Women in Science, Washington University in St. Louis

ADMINISTRATIVE RESPONSIBILITIES AND ACCOMPLISHMENTS

- *Staff and Budget Management.* Manage an annual expense budget of >\$100M (including direct and indirect expenses) in the College of Arts and Sciences with 31 direct reports (23 academic unit chairs/directors, two associate deans, business manager, staff training manager, recruitment manager, executive assistant, marketing specialist, chief development officer). Management experience with both historic incremental and responsibility-center budget models.
- *Strategic Planning:* Together with faculty, staff, students, and alumni, completed a 5-year strategic plan for the Lee Honors College, a 4-year strategic plan for the College of Arts and Sciences 2017-2021, and a 2024-2028 plan for the College of Arts and Sciences describing mission, vision, values, goals and strategies with specific, measurable metrics. Served as a member of the Western Michigan University Strategic Planning Steering Committee and co-chair of the Academic Excellence University Strategic Planning Working Group to help craft the WMU 2022-32 Strategic Plan.
- *Student Success (College of Arts and Sciences):* Worked with instructors to more than double midterm grade reporting. Supported Gateways to Completion (G2C) and Student Success Services initiatives. Worked with staff to create COVID student encouragement team. Launched CAS graduate education committee. Provided competitive summer graduate research assistantships and funded completion scholarships for more than 200 undergraduates

(>90% of whom have now graduated) using summer revenue. Student success initiatives have resulted in DFWI rates decreasing significantly in Chemistry, Physics, Mathematics, Biological Sciences and Psychology G2C courses; CAS FTIAC second-year retention rates increasing from 75% in fall 2016 to a historic high of 81.8% in fall 2024; and CAS 6-year graduation rates increasing from 51.3% in 2016 to 55.6% in 2023-24.

- *Student Success (Lee Honors College)*: Collaborated with Enrollment Management to create Honors First priority registration program, to increase the value of Medallion Scholarships, to support the creation of the Foundation Scholars program and to create the Office of Pre-College Initiatives. Together with staff in the LHC, created Thesis Celebration days, How and Why to Complete an Undergraduate Thesis course, and Mix It Up series, and expanded the Study in the States program, resulting in increased applications for prestigious scholarships, increased honors college enrollment and increased rates of students completing all LHC requirements and graduating with honors.
- *Diversity, Equity and Inclusion*: Currently serve as WMU principal investigator for NSF ADVANCE partnership grant with Iowa State University, Michigan Technological University and North Dakota State University, which provides support for women faculty in STEM, especially faculty of color and with family caregiving responsibilities via cross-institutional mentoring communities, cross-institutional women's caucus, cross-institutional chair and director professional development training and Advocates and Allies gender equity program. Served as co-lead for WMU participation in ASPIRE IChange Network, facilitating self-assessment study of faculty recruiting, transition and retention practices and developing recommendations for systemic change in WMU practices. Continuing to improve inclusive hiring and promotion practices in CAS in alignment with self-assessment study findings. Working with chairs and directors to address identified student and faculty equity gaps. Stepped in to serve as PI for WK Kellogg Foundation Racial Healing grant to WMU. As PI, organized intercultural development inventory training for all university senior leadership (President's Cabinet and Provost's Council), organized a campus- and community-wide symposium focused on Racial Healing and developed an advisory board of staff and faculty to direct use of Kellogg funds for health and education equity projects with increased focus on cross-university collaboration and transparency in funds distribution.
- *Development and Alumni Relations*: Launched College of Arts and Sciences Magazine, mailed to >45,000 friends and alumni each year. Provided development training workshop and support for unit chairs and directors to increase engagement in alumni relations and development activities. Nominated prominent alumni for WMU Distinguished Alumni award; 8 of 13 university DA winners since 2017 are CAS alum. Collaborated with the Office of Advancement to create and co-fund Chief Development Officer position, resulting in record giving of \$7.5M in cash gifts received by CAS in FY21 (largest in >10 years) and an increase in CAS annual unique undergraduate donor count from ~1500 to ~2000.
- *Program Development*: Facilitated consideration and approval of more than 225 CAS Western Essential Studies course proposals. In collaboration with WMUx, developed successful dual enrollment program partnerships in Chinese and Spanish languages with high schools in Kalamazoo and Grand Rapids. Worked closely with faculty and leadership in the College of Education and Human Development and CAS to develop streamlined masters in

teaching program, replacing ~25 undergraduate major/minor secondary education programs. With support from WMUx, launched fully online majors in Communication, Criminal Justice and Psychology. In collaboration with the Graduation College, supported the development of more than a dozen accelerated graduate degree programs and 4+1 agreements. Worked with faculty to launch new major and/or minor programs in Latinx and Latin American Studies; African American and African Studies; Climate Change; and Nonprofit Leadership. Worked closely with the Pokagon, Match-E-Be-Nash-She-Wish and Nottawaseppi Huron Bands of the Potawatomi Tribe to develop a tribal governance graduate certificate program. Created the Institute for Intercultural and Anthropological Studies and launched a School of Environment, Geography, and Sustainability.

- *Leadership Development:* Provide all new chairs and directors with an experienced mentor and opportunities to attend external leadership training workshops. Funded a 12-member cohort of chairs/directors to participate in the University of Illinois Excellence in Academic Leadership program. Provide on-going professional development to all CAS chairs and directors, engaging expert external facilitators to provide summer workshops focused on leadership, conflict management, implicit bias, and alumni engagement and fundraising.
- *Faculty and Staff Hiring, Retention and Success:* Initiated a college-wide call for faculty cluster hire proposals to promote interdisciplinary and cross-disciplinary scholarship and teaching and to enhance diversity in hiring. Received 12 outstanding, innovative proposals. and selected “Public Health: Determinants, Disparities and Education” for funding with seven faculty lines spanning six CAS units. Continuously improving inclusive faculty and staff hiring practices. Provide access to mentors for newly hired faculty. In collaboration with the College of Engineering and Applied Sciences, Government Affairs and the Office of Research and Innovation, developed the STEM workforce collaboratory, which is providing \$1.5M in funding to support enhanced connections between local industry and STEM faculty and students. Provided start-up funds, access to writing circles, research assistant funds, and grants for faculty travel, interdisciplinary research and project development to support faculty scholarship. Launching a new proposal writing circle program. Continuously highlight faculty and staff success in multiple venues (CAS magazine, State of the College address, Faculty and Staff Achievement Awards, social media; annual research week) and to senior administration. CAS continues to lead WMU in number of annual proposal submissions and awards, and in the number of university wide Distinguished Teacher (6 of last 10), Distinguished Scholar (6 of last 7), and Emerging Scholar (4 of last 6) winners. Faculty continue to win national and international accolades for their scholarship (e.g., multiple book awards; Fulbright awards; CAREER awards; prestigious fellowships and foundation grants).
- *Infrastructure and Auxiliaries:* Worked closely with Facilities and multiple university stakeholders to lead \$43M Dunbar Hall renovation project. Currently chairing university Space Optimization Taskforce. Worked closely with Legal Affairs to develop a partnership between WMU’s Medieval Institute Publications and De Gruyter, resulting in enhanced revenues and increased capacity for MIP publication and global marketing. Supported expansion of the Autism Center for Excellence, including the Kalamazoo Autism Center and the Autism Services Center, which received \$4M in 2024 from the State of Michigan to further expand services. Collaborated with the Office of Government Affairs to help obtain \$3M in annual state funding to support the Michigan Geological Survey and Michigan

Geological Repository for Research and Education, together with \$5.9M in 2024 to build a new facility and \$5M in support of aggregate research.

- *Special Events & Community Outreach (Lee Honors College)*: Collaborated with multiple internal and external constituents to create the Raise Your Voice Series, featuring artists, activists and scholars including Anita Hill and Gloria Steinem. Developed the Lyceum Lecture series with semester-long interdisciplinary topics including Climate Change, Race Matters, Living with Uncertainty, Global Citizenship, Sustainable Energy Future, Imagining a World Without Gender-Based Violence! and Our Blue Marble: Water, Home and Humanity. Facilitated the LHC Common Read, including visits of Louis Zamperini (*Unbroken*) and Jan Martell (*Life of Pi*). Collaboratively developed the award-winning Future Leaders of Kalamazoo mentoring program in partnership with Communities in Schools. Strengthened ties with the Kalamazoo Math and Science Academy via honors thesis presentations and recruiting visits.
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TEACHING EXPERIENCE

2000-present Western Michigan University

How and Why to Complete an Undergraduate Thesis (HNRS 4980)

Mineralogy (GEOS 3350)

Environmental Systems and Cycles (ENVS 2150)

Introduction to Geochemistry (GEOS 5550)

Geological Communications (GEOS 4600/6600)

Biogeochemistry of Wetlands (GEOS 5010/6100)

Wetlands Biogeochemistry G9-12 Teacher Workshop (SCI 5900)

Environmental Science G9-12 Teacher Workshop (SCI 5900)

Environmental Field Geochemistry (GEOS 5020/ENVS4500)

Mineral-Water Interface Geochemistry (GEOS 6100)

Rocks and Minerals (GEOS 3010)

1998 Guest Lecturer, Georgia Institute of Technology

Introduction to Geochemistry

Field Methods

1999 Joint Lecturer, Georgia Institute of Technology

Topics in Aqueous Geochemistry: Stochastic Models

1997 Lecturer, University of North Carolina, Charlotte

Introduction to Soil Science

Mineralogy

EXTERNAL GRANTS

2019-24 “ADVANCE partnership: Joining forces – a Midwestern partnership for STEM faculty success,” **National Science Foundation**, \$996,000 (\$175,644 to WMU).

2015-17 “The influence of road salt deicers on the chemistry of Michigan lakes”, **Michigan Department of Environmental Quality** (co-PI: Dr. Kathryn Docherty), \$37,762

2015 “Student travel support program for the 2015 V.M. Goldschmidt conference in Prague, Czech Republic, August 16-21, 2015”, **National Science Foundation**, \$20,000

2013-14 “Racial Healing Planning Grant”, **W.K. Kellogg Foundation**, co-PI with Dr. Nicholas Andreadis, WMU Lee Honors College, \$2,021,549

- 2011 “Student travel support program for the 2011 V.M. Goldschmidt conference in Prague, Czech Republic, August 14-19, 2011”, **National Science Foundation**, \$40,000
- 2010-2012 “Development of surface complexation models for Cr(VI) adsorption on soils, sediments, and model mixtures of kaolinite, montmorillonite, γ -alumina, hydrous manganese and ferric oxides and goethite”, **Department of Energy** Subsurface Biogeochemistry Research Program, \$149,358
- 2008-2011 “Development and evaluation of a problem-based field and laboratory environmental geochemistry course”, **National Science Foundation** Geosciences Education Program, \$134,000 (PI: Heather Petcovic)
- 2009-2010 “CAREER: Generation of sediment heterogeneity by macrophytes and macrofauna and consequences for redox chemistry and trace metal speciation”, **National Science Foundation**, CAREER program, REU extension, \$19980
- 2008-2009 “CAREER: Generation of sediment heterogeneity by macrophytes and macrofauna and consequences for redox chemistry and trace metal speciation”, **National Science Foundation**, CAREER program, RET extension, \$18100
- 2007-2008 “CAREER: Generation of sediment heterogeneity by macrophytes and macrofauna and consequences for redox chemistry and trace metal speciation”, **National Science Foundation**, CAREER program, REU extension, \$16280
- 2005-2007 “Acquisition of Inductively Coupled Plasma Optical Emission Spectrometer for Interdisciplinary Geochemical, and Geomicrobiological Education and Research”, **National Science Foundation**, EAR Instrumentation and Facilities Program, \$89,031, PI (co-PI: Dr. Johnson Haas)
- 2004-2006 “CAREER: Generation of sediment heterogeneity by macrophytes and macrofauna and consequences for redox chemistry and trace metal speciation”, **National Science Foundation**, CAREER program, \$471,285
- 2004-2007 ‘Trace Metal Speciation Surrounding Macrofaunal Burrows: Implications for enhanced solute transport and organic matter degradation in modern and ancient sedimentary systems.’ **American Chemical Society-Petroleum Research Fund** (ACS-PRF) Type G, \$35,000
- 2002-2003 Quantitative Chemical Mass Transfer in Coastal Sediments During Early Diagenesis, Phase IV”, **Office of Naval Research**, \$170,000 (Co-PI: \$50,000 to CMK/WMU)
- 1999-2001 “Quantitative Chemical Mass Transfer in Coastal Sediments During Early Diagenesis: Effects of Biological Transport, Mineralogy, and Fabric”, **Office of Naval Research**, Geology and Geophysics Program, \$160,000
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INTERNAL GRANTS

- 2011-2012 “Impact of road salt on the geochemistry of an urban kettle lake” **Western Michigan University Faculty Research and Creative Activities Fund**, \$10,000, 2011-2012
- 2011 “Acquisition of a canoe for student teaching, research and outreach”, WMU College of Arts and Sciences Teaching and Research Award, \$500, 2011
- 2007-2008 “Does invasion of the exotic purple loosestrife (*Lythrum salicaria*) affect sediment redox structure and trace metal speciation?” **Western Michigan University Faculty Research and Creative Activities Fund**. \$10,000, 2007-2008.
- 2001-2004 “Microbially Mediated Reductive Dissolution of Manganese and Iron Oxides in Redox-Stratified Sedimentary Environments: A Mechanism for Seasonal

- Mobilization of Trace Metal Contaminants?" **Western Michigan University Environmental Research Proposal Fund**, \$80,000 (co-PI: Dr. Johnson Haas)
- 2001-2002 **Western Michigan University Jump Start Initiative: Member of Metals Working Group**. Group Award \$54,000, 2001-2002
- 2001-2002 "Effects of Vegetation on Redox Stratification of Marsh Sediments", **Western Michigan University, Faculty Research and Creative Activities Support Fund** \$10,000, 2001-2002
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PEER-REVIEWED ARTICLES

* = Graduate student advised or co-advised by CMK

** = Undergraduate student advised by CMK

1. Cervato C., Peterson S., Johnson C.A., Bilen-Green C., Koretsky C., Minerick A. and Kremer G.O. (2024) Department chairs as change agents: a virtual cross-institutional professional development model for chairs. *Innovative Higher Education*, doi.org/10.1007/s10755-024-09714-8.
2. Cervato C., Bilen-Green C., Johnson C., Koretsky C. and Minerick A. (2024) External review letters in promotion and tenure: recommendations for department chairs. *The Department Chair*, 34(4), 14-17.
3. Cervato C., Bilen-Green C., Cockrell M., Johnson C.A., Koretsky C. and Minerick A. (2024) External promotion and tenure review letters at research-intensive institutions: a critical communication analysis of external review practices. *ADVANCE Journal*, 4(2). <https://doi.org/10.5399/osu/ADVJRNL.4.2.1>
4. Minerick A.R., Cervato C., Bilen-Green C., Koretsky C.M. and Rouleau M. (2022) Cross-institutional mentoring communities: a virtual mentoring model. *The Chronicle of Mentoring and Coaching*, 6, 812-816.
5. Dupuis D.*, Sprague E.*, Docherty K.M. and Koretsky C.M. (2019) The influence of road salt on seasonal mixing, redox stratification and methane concentrations in urban kettle lakes. *Science of the Total Environment* 661, 514-521.
6. Komarek M., Antelo J., Kralova M., Veselska V., Cihalova S., Chrastny V., Ettler V., Filip J., Yu Q., Fein J.B. and Koretsky C.M. (2018) Revisiting models of Cd Cu, Pb and Zn adsorption onto Fe(III) oxides. *Chemical Geology* 493, 189-198.
7. Wyman, D.A.* and Koretsky C.M. (2018) Effects of road salt deicers on an urban groundwater-fed kettle lake. *Applied Geochemistry*, 89, 265-272.
8. Komarek M., Koretsky C.M., Stephen K.J.*, Alessi D.S. and Chrastny V. (2015) Response to Comment on "Competitive adsorption of Cd(II), Cr(VI) and Pb(II) onto nano-maghemite: a spectroscopic and modeling approach". *Environmental Science and Technology*.
9. Komarek M., Koretsky C.M., Stephen K.J.*, Alessi D.S. and Chrastny V. (2015) Competitive adsorption of Cd(II), Cr(VI) and Pb(II) onto nano-maghemite: a spectroscopic and modeling approach. *Environmental Science and Technology*, 49, 12851-12859.
10. Sibert R.J.*, Koretsky C.M. and Wyman D.A.** (2015) Cultural meromixis: effects of road salt on the chemical stratification of an urban kettle lake. *Chemical Geology*, 395, 126-137.
11. Kim, S.Y. and Koretsky C.M. (2013) Effects of road salt deicers on the biogeochemistry of lake sediments. *Biogeochemistry*, 112, 343-358.
12. Koretsky C.M., Petcovic H. and Rowbotham K.* (2012) Development of an authentic inquiry environmental field geochemistry course. *Journal of Geoscience Education*, 60, 311-324.

13. Koretsky C.M., MacLeod A.** , Sibert R.** and Snyder C.** (2012) Redox stratification and salinization of three kettle lakes in southwest Michigan, USA. *Water Air and Soil Pollution*, **223**, 1415-1427.
14. Reich T.** and Koretsky C.M. (2011) Cr(VI) adsorption on γ -alumina in the presence and absence of CO₂: comparison of surface complexation models. *Geochimica et Cosmochimica Acta*, **75**, 7006-7017.
15. Barnes N.A.* , Kehew A.E, Krishnamurthy R.V. and Koretsky C.M. (2011) Redox evolution in glacial drift aquifers: role of diamicton units in reduction of Fe(III). *Environmental Earth Sciences*, **62**, 1027-1038.
16. Reich T.** , Das S.* , Koretsky C.M., Lund T.** and Landry C.** (2010) Pb adsorption on mixtures of hydrous ferric oxide, quartz and kaolinite: a test of the component additivity surface complexation model. *Chemical Geology*, **275**, 262-271.
17. Schaller M.** , Koretsky C.M., Lund T.** and Landry C.** (2009) Cd adsorption on mixtures of HFO, silica and kaolinite: a test of the component additivity surface complexation model. *Journal of Colloid and Interface Science*, **338**, 302-309.
18. Landry C.J.** , Koretsky C.M., Lund T.J.** , Schaller M.** and Das. S.* (2009) Surface complexation modeling of Co(II) adsorption on mixtures of hydrous ferric oxide, quartz and kaolinite. *Geochimica et Cosmochimica Acta*, **73**, 3723-3737.
19. Lund T.** , Koretsky C.M., Landry C.** , Schaller M.** and Das S.* (2008) Surface complexation modeling of Cu(II) adsorption on mixtures of hydrous ferric oxide and kaolinite. *Geochemical Transactions*, **9**:9.
20. Koretsky C.M., Beuving L.* , Cuellar A.** . Haveman M.* , Shattuck T.* and Wagner M.** (2008) Influence of *Spartina* and *Juncus* on saltmarsh sediments. I. Pore water geochemistry. *Chemical Geology*, **255**, 87-99.
21. Koretsky C.M., Beuving L.* , Cuellar A.** , Haveman M.* , Shattuck T.* and Wagner M.** (2008) Influence of *Spartina* and *Juncus* on saltmarsh sediments. II. Trace element geochemistry. *Chemical Geology*, **255**, 100-113.
22. Gebrehiwet T.* , Koretsky C.M. and Krishnamurthy R.V. (2008) Influence of *Spartina* and *Juncus* on saltmarsh sediments. III. Solid phase organic geochemistry. *Chemical Geology*, **255**, 114-119.
23. Koretsky C.M. and Miller D.** (2008) Seasonal influence of the needle rush *Juncus roemarianus* on saltmarsh pore water geochemistry. *Estuaries and Coasts*, **31**, 70-84.
24. Koretsky C.M., Haveman, M.* , Beuving L.* , Cuellar A.** , Shattuck T.* and Wagner M.** (2007) Spatial variation of redox and trace metal geochemistry in a minerotrophic fen. *Biogeochemistry*, **86**, 33-62.
25. Koretsky C.M., Haas J.R., Miller D.** and Ndenga N.* (2006) Seasonal Variations in Pore Water and Sediment Geochemistry of Littoral Lake Sediments (Asylum Lake, MI USA), *Geochemical Transactions*, **7**:11.
26. Koretsky C.M., Haas, J.R., Ndenga N.* , and Miller D.** (2006) Seasonal variations in redox stratification and potential influence on trace metal speciation in minerotrophic peat sediments. *Water, Air and Soil Pollution*, **173**, 373-403.
27. Koretsky C.M., Meile C., and Van Cappellen P. (2005) Incorporating ecological and biogeochemical information into irrigation models. **Invited Submission** to: *Macro- and Microorganisms in Marine Sediments. Coastal and Estuarine Studies* **60**, Kostka J., Kristensen E. and Haese R., eds, American Geophysical Union, p. 341-358.

28. Koretsky C.M., Moore C., DiChristina T.J., Van Cappellen P., Meile C., Lowe K.L., Viollier E., and Kostka J.E. (2005) Salt marsh pore water geochemistry does not correlate with microbial community structure. *Estuarine, Coastal & Shelf Science*, **62**, 233-251.
 29. Koretsky C.M., Moore C., Lowe K., Meile C., DiChristina T.J., and Van Cappellen P. (2003) Seasonal oscillations of microbial iron and sulfate reduction in saltmarsh sediments (Sapelo Island, GA, USA). *Biogeochemistry* **64**, 179-203.
 30. Koretsky C.M., Meile C. and Van Cappellen P. (2002) Quantifying bioirrigation using ecological parameters: a stochastic approach. *Geochemical Transactions (special issue)*, **3**, 17-30
 31. Meile C., Koretsky C., and Van Cappellen P. (2001) Quantifying bioirrigation in aquatic sediments: an inverse modeling approach. *Limnology and Oceanography* **46**, 164-177.
 32. Koretsky C.M. (2000) The significance of surface complexation reactions in hydrologic systems: a geochemist's perspective. *Journal of Hydrology* **230**, 127-171. **INVITED**
 33. Prapaipong P., Shock E.L. and Koretsky C.M. (1999) Metal-organic complexes in geochemical processes: estimation of standard partial molal thermodynamic properties of aqueous complexes between metal cations and dicarboxylate ligands at high temperatures. *Geochimica et Cosmochimica Acta* **63**, 2547-2577.
 34. Koretsky C.M., Sverjensky D.A. and Sahai N. (1998) A model of surface site types on oxide and silicate minerals based on crystal chemistry: implications for site types and densities, multi-site adsorption, surface infrared spectroscopy, and dissolution kinetics. *American Journal of Science* **298**, 349-438
 35. Koretsky C.M., Sverjensky D.A., Salisbury J.W. and D'Aria D.M. (1997) Detection of surface hydroxyl species on quartz, γ -alumina and feldspars using reflectance infrared spectroscopy. *Geochimica et Cosmochimica Acta* **61**, 2193-2210.
 36. Shock E.L. and Koretsky C.M. (1995) Metal-organic complexes in geochemical processes: Estimation of standard partial molal thermodynamic properties of aqueous complexes between metal cations and monovalent organic acid ligands at high temperatures and pressures. *Geochimica et Cosmochimica Acta* **59**, 1497-1532.
 37. Shock E.L. and Koretsky C.M. (1993) Metal-organic complexes in geochemical processes: Calculation of standard partial molal thermodynamic properties of aqueous acetate complexes at high pressures and temperatures. *Geochimica et Cosmochimica Acta* **57**, 4899-4922.
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INVITED BOOK REVIEW

1. Koretsky C.M. (2001) Book Review: Introduction to Ground Water Geochemistry by Hitchon et al. *Geofluids* **1**, 71.
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INVITED LECTURES (ACADEMIC)

- 2023 Western Michigan University, Higher Education for the Justice-Involved Program
"Invisible salt and urban dead seas"
- 2023 Western Michigan University, Women in Engineering
"Overcoming imposter syndrome"
- 2022 Western Michigan University, Women in Engineering
"Women in STEM: imposter syndrome and stereotype threat"
- 2021 Western Michigan University, Women in Engineering
"Women in STEM: imposter syndrome and stereotype threat"
- 2019 Western Michigan University, Women in Engineering
"Women in STEM: imposter syndrome and stereotype threat"

- 2018 Western Michigan University, Ethics Center
“Invisible salt and urban dead seas: who is responsible?”
- 2017 Western Michigan University, Women in Engineering
“Women in STEM: imposter syndrome and stereotype threat”
- 2017 Western Michigan University, Geosciences Department
“Cultural Meromixis: road deicers, fertilizers, and the dynamics of urban lakes”
- 2017 Western Michigan University Math Club
“Modeling the influence of macrofauna, macrophytes, nutrients and road salt on lake and wetland chemistry”
- 2016 Wayne State University
“Cultural Meromixis: road deicers, fertilizers, and the dynamics of urban lakes”
- 2016 Western Michigan University, Lyceum Lecture Series
“Urban Dead Seas: road deicers, fertilizers, and the dynamics of urban lakes”
- 2014 University of Notre Dame
“Urban Dead Seas: natural and anthropogenic influences on redox-stratification of wetlands and lakes”
- 2012 Tulane University
“Urban Dead Seas: influence of road salt deicers on urban kettle lakes”
- 2010 Guest Lecturer, CHEM 6380 Surfaces in the Environment, WMU
“The mineral water interface: a geochemist’s perspective”
- 2008 Washington University in St Louis
“Influence of macrophytes and macrofauna on saltmarsh geochemistry”
- 2008 Wright State University
“Macrofaunal and macrophyte influences on redox processes and trace metal speciation in marshes”
- 2007 Andrews University
“Biogeochemistry of wetland sediments”
- 2006 Utrecht University
“Can we predict adsorption on natural sediments?”
- 2005 Kalamazoo College
“Biogeochemistry in Saltmarsh Sediments: spatiotemporal pattern formation”
- 2005 Western Michigan University, New Faculty Orientation
“Seeking Equilibrium in a Kinetic Profession: Balancing Excellence in Research, Education and Service”
- 2005 Western Michigan University, Geology Club
“Bioirrigation: how macrofauna influence sediment geochemistry and microbiology”
- 2004 Purdue University
“Competitive Interactions between Iron(III) and Sulfate Reducing Bacteria in Saltmarsh Sediments”
- 2002 University of Idaho
“Competitive Interactions between Iron(III) and Sulfate Reducing Bacteria in Saltmarsh Sediments”
- 2002 University of Windsor, GLIER
“Seasonal oscillations in iron- and sulfate-reducing bacteria in a Sapelo Island, GA saltmarsh”
- 2002 University of Notre Dame
“Seasonal oscillations in iron- and sulfate-reducing bacteria in a Sapelo Island, GA saltmarsh”

- 2001 Indiana University-Purdue University
“Pore Water Geochemistry, Microbial Community Structure and Bioirrigation at Sapelo Island, GA: Integrating field, laboratory and theoretical methods”
- 2000 Western Michigan University
“Pore Water Geochemistry, Microbial Community Structure and Bioirrigation at Sapelo Island, GA: Integrating field, laboratory and theoretical methods”
- 2000 University of Virginia, Charlottesville
“Pore Water Geochemistry, Microbial Community Structure and Bioirrigation at Sapelo Island, GA: Integrating field, laboratory and theoretical methods”
- 2000 University of Wisconsin, Madison
“Pore Water Geochemistry, Microbial Community Structure and Bioirrigation at Sapelo Island, GA: Integrating field, laboratory and theoretical methods”
- 1999 Georgia Institute of Technology
“Spatial and Temporal Variations in Bioirrigation at Sapelo Island, GA: Inverse and stochastic modeling approaches”
- 1999 Skidaway Institute of Oceanography
“Modeling the influence of macrofauna on biogeochemical cycles”
- 1999 Western Michigan University
“Spatial and Temporal Variations in Bioirrigation at Sapelo Island, GA”
- 1999 University of Georgia, Athens
“Spatial and Temporal Variations in Bioirrigation at Sapelo Island, GA: Inverse and stochastic modeling approaches”
- 1998 Washington University in St. Louis
Conference: “Geochemical Perspectives on Environmental Processes: New Theoretical and Analytical Approaches to Sources, Transport, and Bioavailability of Trace Elements”
“Crystal chemical characterization of silicate surface sites: Implications for predictions of silicate dissolution rates”
- 1998 Brown University
“Surface Sites on Oxide and Silicate Minerals: Detection with FTIR Spectroscopy, Predictions from Crystal Chemistry, and Implications for Silicate Dissolution Rates”
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PUBLIC OUTREACH

- 2019 Western Michigan University, Saturday Science Series
“Invisible salt and urban dead seas”
- 2017 Earth. “Road salt may be a larger problem for lakes than thought”, by Kate S. Zalzal, January 19, 2017. <https://www.earthmagazine.org/article/road-salt-may-be-larger-problem-lakes-thought>
- 2017 WMUK, “Why’s That: What does road salt do to fishes?”, by Schvilla Mann, April 13, 2017. <http://wmuk.org/post/whys-what-does-road-salt-do-fishes>
- 2015 Deutschlandfunk, “Streusalz und seine Folgen”, by Von Monika Seynsche, June 1, 2015. http://www.deutschlandfunk.de/umwelt-streusalz-und-seine-folgen.676.de.html?dram:article_id=307971s
- 2015 WMUK, “Road Salt Contaminating Drinking Water, Urban Lakes”, by Rebecca Thiele, November 24, 2015.
- 2015 Encore Magazine, Southwest Michigan’s Magazine, “Salty Lakes: Is road salt ruining Kalamazoo’s urban lakes?”, by Robert M. Weir, November 1, 2015. <http://www.encorekalamazoo.com/salty-lakes-0>

- 2015 Belle Isle Aquarium, Belle Isle, Detroit
Science Saturday Speaker, “Road Salt Deciers and the Dynamics of Urban Lakes”
- 2011 Bell’s Brewery Open House
Water Quality Presentation by Environmental Field Geochemistry Students, regarding Asylum Lake, open to the public
- 2011 Presentation for the Kalamazoo Ladies Library Association, “Eutrophication and the Influence of Road Salt on Lakes”
- 2011 Presentation for the WMU Landscape Services and AmeriCor Volunteers, “Eutrophication and the Influence of Road Salt on Lakes”
- 2011 Presentation for the Southwest Michigan Environmental Health Professionals Spring Meeting, “Eutrophication and the Influence of Road Salt on Lakes”
- 2011 Presentation for the Natural Areas Seminar Series, WMU, “Causes and Effects of Pollutants on Our Lakes”
- 2011 Presentation to the Asylum Lake Preservation Council, “Water Quality Concerns at Asylum Lake”
- 2011 Presentation to the City of Kalamazoo Environmental Concerns Committee, “Salinization of Local Lakes”
- 2010 Guest Lecturer, Annual Meeting of the Two Rivers Coalition (Lawrence, MI)
“Eutrophication and Salinization of Michigan Lakes”
- 2010 Bell’s Brewery Open House
Water Quality Presentation by Environmental Field Geochemistry Students, regarding Woods Lake, open to the public
- 2010 Visiting Distinguished Alumni at Wheeling High School
Visited with and spoke to 10 high school science classes
- 2010 Oakland Drive Winchell Neighborhood Association
Woods Lake Water Quality Presentation & Report
- 2010 Portage Northern High School, Environmental Science & Chemistry
Woods Lake Water Quality Presentation
- 2010 Decatur Middle School, 8th Grade Earth Science
Woods Lake Water Quality Presentation
- 2010 Two Rivers Coalition, Bangor, MI
Woods Lake Water Quality Presentation
- 2009 Bell’s Brewery Open House
Water Quality Presentation by Environmental Field Geochemistry Students, regarding Woods Lake, open to the public
- 2009 Water Quality Report by Environmental Field Geochemistry Students, regarding Woods Lake given to the Woods Lake Association
- 2006 Southwest Michigan Botanical Club
“Wetland Sediment Biogeochemistry: the influence of macrophytes”
- 2005 Ducks Unlimited Banquet
“Student Involvement in NSF Funded Research”
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CONFERENCE ABSTRACTS

* = Graduate student advised by CMK

** = Undergraduate student advised by CMK

1. Petcovic H., Bertman S. and Koretsky C. (2023) Advocates and Allies: Men Champions for gender equity advancing the inclusion of women faculty in STEM. North Central Geological Society of America Meeting,
2. Cervato C., Bilen-Green C., Koretsky C., Kremer G. and Minerick A. (2023) Building an equitable department where faculty. want to work and stay. American Association for the Advancement of Science, Workshop, March 3, Washington D.C.
3. Minerick A., Cervato C., Cockrell M., Bilen-Green C. and Koretsky C. (2023) External review letters for promotion and tenure decisions at research-intensive institutions: an analysis of the content of template letters for bias and recommendations for inclusive language. Collaborative Network for Engineering and Computing Diversity, February 27.
4. Cervato C., Bilen-Green C., Koretsky C., Kremer G. and Minerick (2023) Cross-institutional department chair professional development program at midwestern research institutions. American Association of Colleges and Universities Annual Meeting, Discussion, January 20.
5. Koretsky C., Petcovic H., Peterson S. (Panelists; 2022) JOINING FORCES: A cross-institutional Midwest partnership in support of STEM women of color and women with family caregiving responsibilities. Council of Colleges of Arts and Sciences, Annual Meeting, November 2-5, 2022, Washington DC, Panel.
6. Minerick A.R., Cervato C., Bilen-Green C., Koretsky C. and Rouleau M. (2022) Cross-institutional mentoring communities: a virtual mentoring model during COVID-19. University of New Mexico 15th Annual Mentoring Conference, October 26.
7. Cervato C., Minerick A., Bilen-Breen C., Koretsky C., Courtney D., Hrivnyak M., Kremer G., Goltz S., Peterson S., Sotirin P., Wahl D. and Wingate L. (2022) ADVANCE Midwest Partnership: How to build a collaborative, cross-institutional partnership. Poster Showcase, 2022 Equity in STEM Community Convening, Washington D.C., May 31-June 3, 2022.
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9. Koretsky C., Courtney D., Hrivnyak M., Petcovic H., (2022) Overcoming bias and underrepresentation in STEM: perspectives from the cross-institutional women's caucus. Midwest Sociological Society Annual Meeting, Chicago, IL, April 13-17, 2022.
10. Sprague E.I., Dupuis D.R.*, Koretsky C.M. and Docherty K.M. (2017) The impact of road salt runoff on methanogens and other lacustrine prokaryotes. American Geophysical Union National Meeting.
11. Sprague E.S.*, Dupuis D.*, Koretsky C.M., and Docherty K.M. (2017) The effect of road salt runoff on lake methanogens and methane. Michigan Academy of Science, Arts and Letters, Kalamazoo, MI, March 2017.
12. Dupuis D.*, Sprague E.S.*, Docherty K.M., and Koretsky C.M. (2017) The effect of road salt on Michigan kettle lakes. Michigan Academy of Sciences, Arts and Letters, Kalamazoo, MI, March 2017.
13. Komarek M., Ettler V., Filip J., Koretsky C.M. and Fein J.B. (2017) Towards consistent adsorption models of divalent metals onto iron (nano)oxides. International Conference on the Biogeochemistry of Trace Elements, Zurich, Switzerland, July.
14. Koretsky C.M., Sibert R.* and Wyman D.A.* (2016) The influence of road salt deicers on urban kettle lakes, Geological Society of America National Meeting, Denver, CO, October, **INVITED.**

15. Komarek M., Koretsky C.M., Stephen K.J.*, Alessi D.S. and Chrastny V. (2015) Modeling the adsorption of selected metals onto nano-maghemite. Goldschmidt 2015. Prague, Czech Republic.
16. Komarek M., Koretsky C.M., Stephen K.J.*, Alessi D.S. and Chrastny V. (2015) Competitive adsorption of Cd(II), Cr(VI) and Pb(II) onto nano-maghemite. ICOBTE2015. Japan.
17. Koretsky C.M., Komarek M., Alessi D.S., Stephen K.J.* and Troy A.** (2015) Adsorption of Cr(VI), Cd(II) and Pb(II) on Nano-Maghemite and Maghemite-Coated Silica. American Chemical Society National Meeting, Denver, CO, **INVITED**.
18. Koretsky C.M., Sibert R.*, Wyman D.A.*, Griffey D.* and Krishnamurthy R.V. (2014) Cultural meromixis: the influence of road salt deicers on two urban lakes. American Geophysical Union, San Francisco, CA, December, **INVITED**.
19. Griffey D.* and Koretsky C.M. (2013) Effects of road salt deicers on eutrophication and salinization of three kettle lakes in southwest MI, USA. Geological Society of America, Denver, CO, October.
20. Wyman D.* and Koretsky C.M. (2013) Salinization of Asylum Lake: effects on turnover and lake geochemistry. Geological Society of America, Denver, CO, October.
21. Koretsky C.M., Gilchrist A.M.*, MacLeod A.*, Reich T.J.** and Wyman D.* (2013) Development of surface complexation models for natural and model mineral assemblages. 12th International Conference on the Biogeochemistry of Trace Elements. Athens, GA, June 16-20. **INVITED**.
22. Petcovic H., Koretsky C.M. and Rowbotham K.* (2012) An authentic research approach to teaching environmental geochemistry. Geological Society of America Abstracts with Programs 44, 446.
23. Koretsky C.M. (2012) Adsorption of metals and oxyanions on mineral assemblages. Goldschmidt Conference, Montreal, Canada, June 24-29. **INVITED**.
24. Wyman D.**, Koretsky C.M. and Barger M.* (2012) Cr(VI) adsorption on organic rich soil from Kleinstuck Marsh, Kalamazoo, MI. Goldschmidt Conference, Montreal, Canada, June 24-29.
25. Gilchrist A.* and Koretsky C.M. (2012) Sorption of Cr(VI) on mineral assemblages of goethite with clays and Al-oxides. Goldschmidt Conference, Montreal, Canada, June 24-29.
26. Rowbotham K.*, Petcovic H. and Koretsky C.M. (2011) Developing undergraduates' conceptual understandings of lake systems: a place-based learning success story. GLSI Place-based Education Conference, East Lansing, MI, November 9-10.
27. Sibert R.J.*, Koretsky C.M., Snyder C.***, MacLeod A.***, Wyman D.***, Gilchrist A.* and Barone S.* (2011) Meromixis in an urban kettle lake: effects of road de-icing salts. Geological Society of America National Meeting, Minneapolis, MN, October.
28. Rowbotham K.*, Petcovic H. and Koretsky C.M. (2011) Green, stinky and sick: undergraduates' conceptions of eutrophication. Geological Society of America National Meeting, Minneapolis, MN, October.
29. Koretsky C.M. (2011) Urban Dead Seas: natural and anthropogenic influences on redox-stratified lakes and wetlands. Goldschmidt Conference, Prague, Czech Republic, August 14-19. **KEYNOTES**
30. Koretsky C.M. and Reich T.J.** (2011) Cr(VI) adsorption on γ -alumina. Goldschmidt Conference, Prague, Czech Republic, August 14-19.
31. MacLeod A.* and Koretsky C.M. (2011) Adsorption of Cr(VI) on hydrous manganese oxide. Goldschmidt Conference, Prague, Czech Republic, August 14-19.

32. Barger M.* and Koretsky C.M. (2011) Influence of citric acid, EDTA and fulvic acid on U(VI) sorption on kaolinite. Goldschmidt Conference, Prague, Czech Republic, August 14-19.
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35. Akafia M.*, Reich T.J.** and Koretsky C.M. (2011) Assessing Cd, Co, Cu, Ni and Pb sorption on montmorillonite using surface complexation models. 9th Symposium on the Geochemistry of the Earth's Surface, Boulder, CO.
36. Barger M.* and Koretsky C.M. (2011). The Influence of citric acid, EDTA and fulvic acid on U(VI) sorption onto kaolinite. 9th Symposium on the Geochemistry of the Earth's Surface, Boulder, CO.
37. MacLeod A.**, Sibert R.*, Snyder C.** and Koretsky C.M. (2011) Eutrophication and salinization of urban and rural kettle lakes in Kalamazoo and Barry Counties, Michigan, USA. 9th Symposium on the Geochemistry of the Earth's Surface, Boulder, CO.
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49. Donovan P.** and Koretsky C.M. (2010) Kinetics of Cr(VI) adsorption and desorption on montmorillonite and kaolinite *Geochimica et Cosmochimica Acta* **77**, Supplement, A242.

50. Kim S.-Y. and Koretsky C.M. (2010) Effects of road salts on pore water geochemistry of lake sediments. *Geochimica et Cosmochimica Acta* **77**, Supplement, A517,
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54. Cuellar A.A.*, Sibert R.J.** , Donovan P.M.** and Koretsky C.M. (2009) Development of a selective extraction scheme using cobalt and cadmium doped HFO. *Geological Society of America Abstracts with Programs* **41(7)**, 328.
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interface, Sapelo Island, Georgia (USA), *Geological Society of America, Abstracts with Programs*.

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 121. Koretsky C.M. and Shock E.L. (1993) Assessing the role of aqueous metal complexes of monovalent organic ligands in geochemical processes. *Geological Society of America, Abstracts with Programs*, A-437.
 122. Koretsky C.M. and Shock E.L. (1993) Acetate complexes as an illustration of metal-organic interactions in groundwater and sedimentary basin brines. *Geological Society of America, North-Central Section, Abstracts with Programs* A-32.
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PROFESSIONAL SERVICE

- *International Service: Editorial*
Editorial Board *Geochemical Transactions*, 2005-2009, 2012-2020
Review Editor *Frontiers in Microbiology, Extreme Microbiology Section*, 2014-present
Editorial Board *Chemical Geology*, 2008-2012
Co-Editor of *Geochemical News*, 2001-2008
- *International Service: Review Panels*
NSF Committee of Visitors, Division of Earth Sciences, 2017
EPA Review Panel, 2015
Goldschmidt Travel Fund Committee Chair, 2011-2014
DOE WDTS Reverse Site Visit Program Reviewer, 2012
NSF Program Panelist, 2012
NASA Program Panelist, 2011
DOE Program Panelist, 2011
DOE Program Panelist, 2010
College Board Earth Science Standards Reviewer, 2009
NSF Program Panelist, 2009
DOE Program Panelist, 2009

- NSF Program Panelist, 2008
- DOE Program Panelist, 2008
- NRL Review Panelist, 2007
- NSF Program Panelist, 2007
- NSF Program Panelist, 2006

- *International Service: Conference Organization*
 - Theme Session: Trace metals in the environment, Goldschmidt 2011
 - Theme Session: Nontraditional SCMs, Goldschmidt 2010
 - Theme Session: Bioirrigation, Goldschmidt 2005
 - International Steering Committee, Goldschmidt 2005
 - Water-Rock Interactions Financial Assistance Committee, 2004
 - ASLO Aquatic Sciences Meeting Steering Committee, 2003
 - ASLO Aquatic Sciences Meeting Abstract Sorting Committee, 2003

- *International Service: Professional Societies*
 - Council of Colleges of Arts and Sciences, Professional Development and Networking Group Member, 2023-present
 - Geochemical Society Nomination Committee Chair, 2016-17
 - Geochemical Society Nomination Committee, 2015-17
 - Board of the Geochemical Society, 2005-08
 - GS Board Subcommittee on Funding in the Sciences, 2005-08
 - GS Board Website Subcommittee, 2007-08

- *International Service: Workshops*
 - NSF Earth Science Literacy Initiative Conference, St. Louis, July 2008
 - NSF Earth Science Literacy Initiative Online Conference, May 2008
 - Invited GEON NSF Cyberinfrastructure Workshop, La Jolla, CA, March 2-4, 2004
 - Invited “Conceptual Model Development for Subsurface Reactive Transport Modeling of Inorganic Contaminants, Radionuclides, and Nutrients” Workshop Participant, April 20-22, 2004

- *WMU University Service*
 - WMU Campus Master Plan Committee, 2024-present
 - WMU Space Optimization Taskforce Chair, 2024-present
 - WMU Space Advisory Committee, 2022-present
 - Dunbar Hall Advisory Committee, 2018-2024
 - Co-Lead ASPIRE IChange Alliance, 2019-2023
 - University Strategic Planning Steering Committee Member, 2021-2023
 - University Strategic Planning Academic Excellence Committee, Co-chair, 2021-2023
 - Chair Search Committee, College of Engineering and Applied Sciences Dean, 2020
 - Strategic Resource Management (Revenue Allocation) Committee Member, 2018-19
 - Strategic Resource Management (Cost Allocation) Committee Member, 2018-19
 - Chair Search Committee, Vice President for Research 2017
 - Space Allocation Committee, 2016-2022
 - Co-Chair Search Committee, Associate Provost Enrollment Management, 2016
 - WMU Undergraduate Studies Council Member, 2013-16

University Center for the Humanities Advisory Board, 2013-16
WMU Racial Healing Grant Advisory Committee Chair, 2013-15
FYE 2100 Project Action Team, 2013
Experiential Learning Project Action Team, 2013
Equity, Diversity and Social Sustainability Project Action Team, 2013
Curriculum and Student Success Project Action Team, 2013
Lee Honors College Curriculum Committee Chair, 2012-13
Faculty Senate Research Advisory Council, 2012-14
CAS General Education Committee, 2012
Graduate College Dean Search Committee, 2011-12
Faculty Research and Creativity Activities Fund Review Committee, 2003-06, 2011-12
WMU American Council on Education Michigan Women's Network Institutional Representative, 2011-12
Academic Integrity Committee, Spring 2001-12
Office of Student Conduct Review Committee, 2012
Women's Caucus Steering Committee, 2005-06, 2010-12
Emerging Scholar Award Committee, 2010-11
Graduate Student Research and Travel Fund Review Committee, 2008-11
College of Arts & Sciences Curriculum Committee, Fall 2006-11

- *WMU Departmental Service*

Mineralogy/Petrology Search Committee, 2012
Geosciences Productivity Committee, 2008-12
Geosciences PhD Program Advisor, Spring 2006-12
Geosciences MS Program Advisor, Summer 2004-12
Geosciences Graduate Admissions Committee, 2006-12
Environmental Studies Suite Renovation Committee, 2009-10
Environmental Studies Gwen Frostic Seminar Series Committee 2008-09
Geosciences Graduate Review Committee Chair, 2005-06
Geosciences Assessment Committee Chair, 2003-05
Environmental Studies Curriculum Revision Committee, 2004-05
Geosciences Assessment Committee, 2004
Geosciences Curriculum Committee Chair, 2004
Geosciences Chair Search Committee, 2003
Geosciences Sedimentology Search Committee, 2001-02

- *Other WMU Service*

Louis Stokes Alliances for Minority Participation Workshops, 2011-15
Science Olympiad, "Water Quality" Event Coordinator, March 2012
MiTemp K12 Teacher Workshop, July 2011 & July 2012
Associate Chair Geosciences Department, 2006
Faculty Advisor for Students for Sustainable Earth, 2005-06
Faculty Advisor for WMU Dressage Club, 2008-10
Geochemistry Major Advisor, 2003-04
Coordinated Visiting Scholars and Artists Program Visit for Dr. Everett Shock
Designed Geosciences Departmental Graduate Recruitment Brochure
Medallion Scholarship Competition Faculty Observer, 2003, 2005, 2008-11

Bronco Days Faculty Participant, 2004
University 101 Guest Panelist, 2004-05
OVPR Research and Dessert Workshop CAREER Panelist, 2011

- *Manuscript Reviews Completed For:* Adsorption of Metals to Geomedia II (book), American Journal of Science, Aquatic Microbial Ecology, Applied Geochemistry, Biogeochemistry, Biogeosciences Discussion, BioScience, Canadian Journal of Fisheries and Aquatic Sciences, Chemical Geology, Chemical Engineering Journal, Chemosphere, Colloids and Surfaces A: Physicochemical and Engineering Aspects, Earth and Planetary Science Letters, Environmental Science and Technology, Estuaries & Coasts, Estuarine Coastal and Shelf Science, Geobiology, Geochemical Transactions, Geochimica et Cosmochimica Acta, Geoderma, Industrial & Engineering Chemistry Research, JESPR, Journal of Colloid and Interface Science, Journal of Environmental Management, Journal of the Geological Society, Journal of Hazardous Materials, Journal of Marine Research, Kuwait Journal of Science and Engineering, Limnology and Oceanography, Marine Chemistry, Marine Ecology Progress Series, Nature, Ocean Drilling Program, Physics and Chemistry of Minerals, Powder Technology, Science of the Total Environment, Soil Biology and Biochemistry, Soil Science Society of America Journal, Soil & Sediment Contamination: an International Journal, Book: “Interactions between macro- and micro-organisms in sediments”
- *Proposal Reviews Completed For:* American Chemical Society Petroleum Research Fund, Cooperative Institute for Coastal and Estuarine Environmental Technology Program, National Science Foundation, Department of Energy, NWO (Dutch National Science Foundation) Division of Earth & Life Sciences, Seagrant and Binational Science Foundation, Water Resources Center (University of Minnesota)
- *Primary Supervision of MS and PhD Students (14)*
Krishna Stephens, PhD Candidate, ABD.
Danielle Dupuis, MS Geosciences, Graduated, Fall 2017
“The influence of road salt on seasonal mixing and redox stratification in three southwest Michigan kettle lakes”
Davina Wyman, MS Geosciences, Graduated, Summer 2014
“Effects of road salt on Asylum Lake geochemistry”
Ann Gilchrist, MS Geosciences, Graduated Spring 2013
“Surface complexation modeling of Cr(VI) adsorption on mineral assemblages”
Andrew MacLeod, MS Geosciences, Graduated Spring 2013
“Adsorption of hexavalent chromium onto hydrous manganese oxide”
Ryan Sibert, MS Geosciences, Graduated Summer 2012
“The effects of road salt influx on the geochemical cycling of Woods Lake, Kalamazoo, Michigan”
Michelle Barger, PhD Geosciences, Graduated Fall 2011
“Investigating the influence of organic acids on uraninite solubility and uranyl sorption onto kaolinite”
Angel Cuellar, MS Geosciences, Graduated Summer 2010
“Development of an extraction procedure for Cd- and Co-doped iron oxides and bacteria”

- Martin Akafia, MS Geosciences, Graduated Summer 2010
 “Trace Metal Adsorption on Montmorillonite: a laboratory and modeling study”
- Melanie Haveman, MS Geology, Graduated Fall 2009
 “Influence of Vegetation on Porewater Chemistry in a Michigan Peatland”
- Terri Shattuck, MS Geology, Graduated Fall 2008
 “Influence of Bioirrigation on Trace Metal Distribution”
- Soumya Das, PhD Geology, Graduated Fall 2007
 “Adsorption of Lead on Single and Mixed Solid Systems”
- Noah Ndenga, MS Geology, Graduated Summer 2005
 “Seasonal Variability in Trace Metal Speciation and Vertical Redox Stratification of Freshwater Lake and Marsh Sediment in the Kalamazoo River Watershed (MI, USA)”
- Suama Ndengu, MS Geology, Graduated Summer 2005
 “Investigation of Ni Partitioning in a Contaminated Aquifer”
- *Primary Supervision of Non-Thesis Graduate Students (2)*
 Amanda St. Amour, Earth Science MS (Non-thesis), Graduated Summer 2005
 “Atmospheric Deposition at Kleinstuck Marsh”
 Lauren Beuving, MA Earth Science (Non-thesis), Graduated December 2006
 - *Primary Supervision of Undergraduate Honors Theses (6)*
 Danielle Dupuis, Undergraduate Honors Thesis, Graduated 2015, “Influence of Road Salt Deciers on Anaerobic Respiration and Metal Speciation in Soils”
 Tyler Walter, Undergraduate Honors Thesis, Graduated 2013, “Determination of Trace Metals, Volatile Organic Compounds, and Other Water Standards in WMU Drinking Water”
 Amy Troy, Undergraduate Honors Thesis, Graduated 2013, “Co and Cr Adsorption on Maghemite, Quartz, and Maghemite-Quartz Mixtures”
 Rebecca Kiekhaefer, Undergraduate Honors Thesis, Graduated 2013, “The Effects of Eutrophication and Salinization on Methane Production in Urban and Rural Lakes”
 Melinda Schaller, Undergraduate Honors Thesis at Kalamazoo College, Graduated Spring 2007, “Cadmium Adsorption on Mixed Model Solids”
 Peter Voice, Undergraduate Honors Thesis, Graduated Winter, 2001
 “Prediction of Metal Adsorption on Natural Sediments Using Model Mineral Mixtures”
 - *Primary Supervision & Training of Undergraduate Research Assistants (23)*
 Caren Ihle, Doug Miller, Amy Nowakowski, Nancy Morgan, Keith Boneburg, Tracy Lund, Jessa Jackson, Chris Landry, David Eagle, Melinda Schaller, Angel Cuellar, Peter Voice, Ryan Sibert, Laura Pearson, Thomas Reich, Patrick Donovan, Kirk Wagenvelt, Andrew MacLeod, Christine Snyder, Amy Troy, Kirsten Wright, Davina Wyman, Jake Tholen
 - *Primary Supervision & Training of Howard Hughes Medical Institute Fellows (2)*
 Nicole Parry, Biju Padmanabhan
 - *Primary Supervision & Training of Pierce Cedar Creek Summer Interns (2)*
 Andrew MacLeod, Christine Snyder

- *Primary Supervision & Training of High School Interns (7)*
Gabe Surprise, Ben Quintel, Kate Knoechel, Dahlia Sultan, Sagar Deshpande, Jessica Song, Steve Breisach
- *High School Teacher Summer NSF Research Experiences for Teachers (RET) (2)*
Keith Lang, Lance Goodlock
- *Middle School Science Fair Project*
Jake Heasley, Kazoo School
- *Graduate Committee Member (29)*
Shannon Wong, MA; Nate Bolles, MA; Michelle Bargar, MS; Jason Spanier, MA; Abe Northup, MS; Kayleigh Lim, MS; Nathaniel Barnes, MS; Joy Gryzenia, MS; Ahmed Murad, PhD; Loago Mulwalefhe, PhD; Patrick Meyer, PhD; Haile Mengistu, PhD; Tsigabu Gebrehiwet, PhD; Richard Becker, PhD; Joy Gryzenia, MS; Tova Samuels PhD Chemistry; Katherine Rowbotham, PhD Science Education; Carol Beaver, PhD Biological Sciences, WMU External PhD Examiner for Nicola Grigg, University of Canberra, Australia; Kristen Hempel, PhD Chemistry; Joseph Kreft, PhD Chemistry; Steven Barone, MS Geosciences; Derrick Lingle, MS Geosciences; Cameron Manche, MS Geosciences; Cameron Manche, PhD Geosciences; Hannah Borton, MS Biological Sciences; Since Baunselle, PhD Chemistry; Emily Sprague, MS Biological Sciences; Ellen Foley, MS Biology, Grand Valley State University
- *Honors Thesis Committee Member (3)*
Ashley Derthick; Steven Aiello; Christian Hartman