

**CURRICULUM VITAE**  
**DAVID C. GOSSELIN**  
(REVISED DECEMBER 2025)

Environmental and Sustainability Studies Program  
Emeritus, University of Nebraska-Lincoln

402-310-4615 (cell)  
dgossein21@gmail.com

**EDUCATION**

**1987** South Dakota School of Mines and Technology Rapid City, SD -- **Ph.D.**, Geology  
**1982** College of St. Thomas, St. Paul, MN -- **B.A.**, Geology, Magna Cum Laude

**EMPLOYMENT HISTORY**

**Academic Leadership**

**2018 - 2025** **Director**, University of Nebraska-Lincoln Sustainability Initiative  
**2017 - 2025** **Co-Chair**, Chancellor's Sustainability Commission, University of Nebraska-Lincoln  
**2008 - 2025** **Director**, Environmental and Sustainability Studies, University of Nebraska-Lincoln.  
**2004 - 2007** **Associate Director**, School of Natural Resources, University of Nebraska-Lincoln  
**2009- 2019** **Chair**, Science for Educators Specialization, Masters of Applied Science, University of Nebraska-Lincoln  
**1993 - 2025** **Director**, Nebraska Earth Systems Education Network, Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln.

**Faculty Position**

**2003 - 2025** **Professor of Earth Science**, School of Natural Resources, University of Nebraska-Lincoln.  
**1995 - 2003** **Associate Professor**, School of Natural Resource Sciences and Conservation and Survey Division, University of Nebraska-Lincoln.  
**1989 - 1995** **Assistant Professor**, Conservation and Survey Division, University of Nebraska-Lincoln.  
**1988 - 3/1989** **Postdoctoral Trainee**, Analytical Chemistry Group; Battelle-Pacific Northwest Laboratory and Northwest College and University Association for Science, Richland, WA.

**Courtesy Appointment:** Dept. of Teaching, Learning, and Teacher Education, College of Education and Human Sciences, University of Nebraska-Lincoln,

**HONORS and AWARDS**

**2019** Parent's Recognition Award from the UNL Parents Association, University of Nebraska-Lincoln – 3<sup>rd</sup> Award.  
**2018** Research Partner of the Year: TTI Success Insights, Scottsdale, AZ. Acknowledges the individual whose partnership has helped TTI Success Insights uncover new insights in human behavior and motivation.  
**2017** Best Presentation Award in Session, 2017 International Science Education Conference, Clute Institute  
**2016** Spirit of Service Award, Center for Civic Engagement, University of Nebraska-Lincoln  
**2015** Idaho Author Award Winner – Best in Business Book Category  
**2015** Idaho Author Award Winner – Top Ten Nonfiction Book Category  
**2014** Omtvedt Innovation Award Winner, Science Education, Institute of Agriculture and Natural Resources, UNL  
**2013** Floyd S. Oldt Boss of the Year Nominee, University of Nebraska Office Professionals Association  
**2013** Nebraska High School Coach of the Year Small Parochial School, National Soccer Coaches Association of America  
**2010** 2009 Regional Coach of the Year, National Soccer Coaches Association of America  
**2010** Certificate of Recognition for Contributors to Students. UNL Teaching Council and Parents Association  
**2007** Lifetime Achievement Award, Nebraska State Soccer Association  
**2005** Volunteer of the Year, Youth Sports Branch, YMCA, Lincoln, NE  
**1999** Catalyst Award, Nebraska Association of Teachers of Science  
**1995** Institute of Agriculture and Natural Resources Team Award: Mid-Nebraska Water Quality Demonstration Project.

**1991** Nominated for John C. Frye Award, Association of American State Geologists for best paper in environmental geology published by a state survey. Paper: Bazile Triangle Groundwater Quality Study.

## **PROFESSIONAL SOCIETY AFFILIATIONS**

Geochemical Society	American Geophysical Union
Sigma Xi, Scientific Research Society	Professional Geologist - State of Nebraska
Association of Environmental Studies and Sciences	National Association of Geoscience Teachers

## **EXPERIENCE**

See LinkedIn Page for Information - [linkedin.com/in/david-c-gosselin](https://linkedin.com/in/david-c-gosselin)

**Leadership – Director of University of Nebraska-Lincoln Sustainability Initiatives Sustainability and Co-Chair, Chancellor’s Commission on Sustainability:** Developed a long-term roadmap for sustainability activities at UNL through facilitation and active leadership of the UNL “Sustainability Action Team.”

**Leadership – Director of Environmental Studies– Undergraduate Curriculum and Program Support, Academic and Student Support Services:** Provide vision and leadership to the Environmental Studies Program to develop students who have the skills to be competitive in the marketplace; Only education program at UNL where sustainability is a core value in its mission statement; Facilitated the creation and host of the inter-college undergraduate sustainability minor – Society and the Environment; Develop strategic and action plans; Recruit, retain, and advise undergraduate majors.

**Leadership – Sustainability and Interdisciplinary Programs - Local and National Scales:** Elected to the Executive Committee of the Council of Environmental Deans and Directors (CEDD). Coordinated the implementation of the strategic plan to Enhance Interdisciplinary Environmental Education Curricula. An outcome of this work is the international, multi-institutional “Employing Model-Based Reasoning in Socio-Environmental Synthesis” (EMBeRS) working group, funded by the National Center for Socio-Environmental Synthesis.

**Leadership – Undergraduate Academic and Student Support Services – Associate Director School of Natural Resources** Served as Associate Director of the School of Natural Resources at UNL from 2004 to 2007. Provided leadership for approximately 200 people, including 75 faculty who had interdisciplinary expertise in climate change, drought, biodiversity, conservation biology, human dimensions, soil and water resources, and ecology.

**Leadership - Nebraska Earth Systems Education Network (NESEN) – Director:** Developed professional development and educational service programs in Earth system science for in-service teachers and undergraduate students in early childhood and elementary, middle School, and secondary programs.

**Student Support Services - Diversity:** Provided research experiences for underrepresented, first-generation, low income high school students. I have had a nine-year collaboration with UNL’s Upward Bound Program related to student development.

**Leadership - Faculty Strategic Planning and Unit Merger:** Developed unit strategic and action plans for UNL Conservation and Survey Division related to water resources assessment and Earth system science education; Provided leadership on two committees for the creation of the UNL School of Natural Resources.

**Applied Community- and Stakeholder-Oriented Research;** Project Manager and Principal Investigator for Nebraska Public Water Supply Research Program. Investigations included microbiology, chemistry, engineering, geology, hydrogeology, engineering, adaptive management, public policy, decision-making, and economics; Developed collaborative relationships with the Nebraska Department of Health and Human Services (NDHHS), EPA Region VII, 30 rural Nebraska communities, the Nebraska Public Policy Center, and UNL faculty and staff.

*See Research and Education Grant Information for more information below.*

## **LEADERSHIP DEVELOPMENT ACTIVITIES**

### **Rural Prosperity Network**

Rural Fellows Training in Inclusive Community Leadership – Summer 2022

### **TTI Success Insights, Inc.**

Certified Professional Behavioral Analyst – DISC; November 2015 – Present

Certified Professional Motivators Analyst, December 2015 - Present

### **Chain Reaction Partners**

Coaching Skills for Leaders Workshop – November 2004

### **UNL Center for Leadership Development Seminars**

- Building Trust and Enhancing Organizational Efficiency
- Take Risks, Not Chances
- Skills for Leading Through Difficult Times, Working with Difficult People
- Leadership Style - Building and Using Influence Effectively

### **NU Leadership Development Series at UNL (Development Dimensions International (DDI))**

- Coaching for Improvement, March 2004
- Managing Performance Problems, April 2004

### **UNL Interdisciplinary Faculty Retreat – 2007**

- Recruiting and Retaining Diverse Students

### **North Central Region – Instructional Leadership Workshop - 2007**

- Student Learning...Strategies of Assessment, Outcomes, and Program Improvement

## **WORKSHOP LEADERSHIP AND FACILITATOR ACTIVITY (SINCE 2012)**

- Workshop Facilitator, Systems, Society, Sustainability and the Geosciences, July 24 - 26, 2012, InTeGrate Workshop, Carleton College, Northfield, MN.
- Workshop Facilitator, Developing Leaders of Interdisciplinary Environmental and Sustainability Academic Programs: Assessment and Evaluation of Interdisciplinary Environmental Programs, CEDD/AESS sponsored workshop, Association of Environmental Studies and Sciences, June 19, 2013, Pittsburg, PA
- Workshop Facilitator, Integrating Sustainability into Geoscience Courses. *Cosponsors:* GSA Geoscience Education Division; National Association of Geoscience Teachers, Geological Society of America Annual Meeting & Exposition, October 27-30, 2013, Denver, CO
- Workshop Facilitator, InTeGrate Module/Course Authors Meeting and Workshop, November 9-11, 2014, Carleton College, Northfield, MN
- Workshop Facilitator, Developing Leaders of Interdisciplinary Environmental and Sustainability Academic Programs: Building Program Support, and Facilitating Program Change, CEDD/AESS sponsored workshop, June 24 2015, San Diego, CA.
- Workshop Facilitator, Strengthening Sustainability Learning in your Program Workshop, July 16-17, 2015, Earth Educators Rendezvous, Boulder, CO.
- Building Stronger Department Workshop Facilitator, September 17-18, 2015, University of Washington-Bothell, National Association of Geoscience Teachers Traveling Workshops Program.
- Workshop Facilitator, Leading, Coaching, and Educating: Change your Mindset to Them, Workshop for Lincoln Human Resource Management Association, March 8, 2016. Lincoln, NE
- Workshop Facilitator, Morningside Women's Soccer Program Team Enhancement Project, February 2016, Sioux City, IA.
- Workshop Facilitator, Employing Model Based Reasoning (EMBeRS) Summer Workshop for Faculty, June, 2016, Association of Environmental Studies and Sciences Meeting, American University, Washington, D.C.
- Workshop Facilitator, Employing Model Based Reasoning (EMBeRS) Summer Workshop for Ph.D. students, July 11-22, 2016, University of Texas at El Paso.
- Workshop Facilitator, Incorporating Thinking about the Earth across Disciplines Workshop, July 18 – 20, 2016, Earth Educators Rendezvous, Madison, WI.
- Workshop Facilitator, Nebraska Wesleyan Women's Soccer Program Team Enhancement Project, August 2016, Lincoln, NE.
- Building Stronger Department Workshop Facilitator, October 7-8, 2016, State University of New York - Fredonia, National Association of Geoscience Teachers Traveling Workshops Program

- Leadership Development Workshop Facilitator, Leading, Coaching, and Educating: Change your Mindset to Them, Leadership Development Workshop for Leadership LINK, April 26, 2017. Lincoln, NE
- Workshop Facilitator; Employing Model Based Reasoning (EMBeRS) Summer Workshop for Ph.D. students, June 7-14, 2017, University of Texas at El Paso.
- Workshop Facilitator; Developing Collaborative and Interdisciplinary Leadership Capacity to Address Wicked Problems: Part 1 and 2 Workshop, June 21, 2017, Association of Environmental Sciences and Study, University of Arizona, Tucson, AZ.
- Workshop Facilitator, Morningside Women's Soccer Program Team Enhancement Project, August 13-14, 2017, Sioux City, IA.
- Workshop Facilitator, Johnson-Flodman-Guenzel-Widger Law Firm Team Enhancement Project, August 17, 2017, Lincoln, Nebraska.
- Building Stronger Department Workshop Facilitator, November 3-4 2017, University of Northern Illinois, National Association of Geoscience Teachers Traveling Workshops Program.
- Symposium Workshop S-C10 Organizer and Facilitator: Case Studies of Employing Model Based Reasoning to Improve Transdisciplinary Collaboration Competencies. 18th National Conference and Global Forum on Science, Policy, and the Environment. Building Resilience in a Changing World. January 23-25, 2018. Hyatt Regency Crystal City. Washington, D.C.
- Building Stronger Department Workshop Facilitator, January 31-February 2, 2018. University of Indiana, Strategic Planning for Environmental, Sustainability, and Resilience Programs, National Association of Geoscience Teachers Traveling Workshops Program.
- Workshop Facilitator; Curriculum Development to Improve Student's Collaborative and Interdisciplinary Capacity to Address Complex Environmental and Sustainability Issues. June 20, 2018, Association of Environmental Sciences and Study, American University, Washington, D.C.
- Building Stronger Department Workshop Facilitator, November 9-10, 2018, Furman University, National Association of Geoscience Teachers Traveling Workshops Program.
- Net Zero Carbon Solution for Martha's Vineyard, Design Thinking Workshop, Massachusetts Institute of Technology, Boston, MA January 22-26, 2019...Responsibility was providing activities related to the EMBERs approach and dispositional characteristics.
- Building Stronger Department Workshop Facilitator, May 16-17, 2019, Maine Marine Academy, National Association of Geoscience Teachers Traveling Workshops Program.
- Building Stronger Department Workshop Facilitator, October 24-25, 2019, University of Wisconsin Women across the Sciences Program, National Association of Geoscience Teachers Traveling Workshops Program.
- Leading, Coaching, and Educating: Taking LincOne from Now to New; LincOne Federal Credit Union, January 2020, Lincoln, NE
- Building Stronger Department Workshop Facilitator, October 24-25, 2019, University of Wisconsin Women across the Sciences Program, National Association of Geoscience Teachers Traveling Workshops Program.
- Bridging to STEM Excellence Workshop Facilitator, Eliminate the equity gap in biology courses, February 6-7, 2020, University of California- Chico.
- Workshop Facilitator, Academic Year 2020-2021, University of Nebraska-Lincoln, Infusion of Sustainability, and Resilience into Curricular Experiences
- Workshop Facilitator, Spring 2021, University of Nebraska-Lincoln, Infusion of Sustainability and Resilience into Curricular Experiences
- Workshop Facilitator, Spring 2022, University of Nebraska-Lincoln, Infusion of Sustainability, Resilience, Diversity and Inclusion into Curricular Experiences
- Bridging to STEM Excellence Workshop Facilitator, incorporation of computational and bioinformatics skills in lower division course. Virtual. February 7-8, 2022, University of Texas, Austin
- Building Stronger Department Workshop Facilitator, November 16-17, 2023, Eastern Carolina University, National Association of Geoscience Teachers Traveling Workshops Program.

## **GRANTS and CONTRACTS**

### **Interdisciplinary Environmental and Earth Systems Education Research (\$2,526,662)**

- Collaborative Research: NRT-IGE: Employing Model-Based Reasoning in Environmental Science (EMBeRS) DGE - NSF Research Traineeship (NRT), (Principal Investigator with Deanna Pennington, UTEP, UNL UNL Share **\$53,331**, Two years.
- InTeGrate: Interdisciplinary Teaching of Geoscience for a Sustainable Future, Cathy Manduca, SERC - Carleton College P.I., Gosselin - Senior Personnel, EHR-GEO-STEP Center Project (DUE-1125331), Total - \$10M., UNL Share **\$141,546**. Five years
- Global Climate Change, International Food Security, and Local Sustainability: Collaborative Course Development and Sharing Among Institutions Serving Diverse and Underserved Learners, Rebecca Bolger, Brooklyn College, P.I., Gosselin – Senior Personnel, NASA-NICE Project, Total \$291,630, UNL Share **\$91,857**. 3 years
- UNL Science Scholars Program, T. Heng-Moss and J. Pederson, Co-P.I.s David Gosselin – Collaborator, National Science Foundation, **\$1,194,387** (not included in total) , 09/01/2010 - 08/31/2015.
- Development of an Educator-Climatologist Learning Community (ECLC) using Web 2.0 and On-line, Process-Oriented Climate Change Research and Educational Experiences, D.C. Gosselin (PI), co-P.I.s R. Oglesby, R. Low, R. Bonnstetter, NASA, **\$349,973**, 01/01/2011 – 12/31/2013.
- Masters Degree in Applied Science Education, D.C. Gosselin, (P.I.) co-P.I. R.J. Bonnstetter , and B. Strand, Toyota Foundation, **\$540,335**, 4 Years, Start date: 7/1/07 – 6/30/13
- UNO-NASA Space Grant Enhanced Resources, C. Larson-Miller and D.C. Gosselin (Co-PI), NASA, **\$9,800**, 09/01/2010 - 03/31/2010.
- Connecting Youth to Science, D. C. Gosselin (P.I.) National Council for Science and the Environment, **\$5,086**, 08/01/2010 - 12/31/2012.
- ENVR 201 Online, D.C. Gosselin and C. Haney, Co-P.I.s, Extended Education and Outreach, **\$5,000**, 07/01/2010 - 06/30/2011.
- UNO-Space Grant Earth Science Literacy, C. Larson-Miller and D.C. Gosselin (Co-PI), NASA, **\$3,000**, 10/01/2009 - 05/31/2010.
- Global Climate Change Literacy for Educators: Using On-line Professional Development to Integrate Content and Pedagogy, D.C. Gosselin, P.I., Ronald Bonnstetter, (Co-PI) Donna Woudenberg (Co-PI), **\$175,902**, 07/01/2009 - 06/30/2011.
- The UNL EnvironMentors and Upward Bound Partnership Program: Creating Environmental Research Opportunities for Under resourced High School Students (OEATP EnvironMentors Program), Joan Mendoza-Gorham and D.C. Gosselin (Co-P.I.s), **\$24,555**, 07/01/2009 - 12/31/2010.
- UNO-Space Grant Literacy, C. Larson-Miller and D.C. Gosselin (Co-PI), NASA, **\$7,500**, 02/02/2009 - 03/31/2010.
- UNO-Space Grant Literacy, C. Larson-Miller and D.C. Gosselin (Co-PI), NASA, **\$7,500**, 02/01/2009 - 05/31/2010.
- UNO-Space Grant Literacy, C. Larson-Miller and D.C. Gosselin (Co-PI), NASA, **\$7,500**, 01/01/2009 - 12/31/2010.
- Faculty Leadership for Writing Initiative, Erin Blankenship (PI), David Gosselin – Co-PI, NU Kelly Fund, **\$22,000**, 09/01/2008 - 07/01/2010.
- Earth Science Institute of Elementary Educators (ESIEE), D.C. Gosselin, (P.I.) co-P.I. R.J. Bonnstetter , and T.F. Slater, NASA, **\$356,094**, 3 years, Start date: 8/14/05 to 8/13/08.
- Summer Earth Systems Education Institute (SESEI): A Partnership between Educational Service Unit #3 and the University of Nebraska-Lincoln., D.C. Gosselin, (P.I.), R.J. Bonnstetter, and S. Person-Pandil, Nebraska Department of Education Math and Science Partnership, **\$60,916**, 2/6/04 – 9/25/05.
- Sand Hills Biocomplexity: Integrating Biogeophysical Processes across Space and Time, D. Wedin, G. Henebry, and D. Loope (PIs), Gosselin - Senior Personnel, Responsibilities include Educational Outreach, National Science Foundation, **\$1,800,000** (not included in total); 10/1/03 to 9/30/07.
- Integration of Earth System Science Research and Education: Involving Teachers in Scientific Research and Scientists in Inquiry-Based Learning, D.C. Gosselin, (P.I.), co-PI, Ron Bonstetter, UNL Teachers College, **\$74,204**, National Science Foundation, January 2000 to June 2002.
- Creating Connections between Regional Climate Change Information and the Public: A Multifaceted Approach. D.C. Gosselin, (P.I.), co-PI, Steve Meyer, UNL School of Natural Resource Sciences, **\$161,874**, National Institute of Global and Environmental Change, July 1999 to June 2003.
- Teacher Professional Development Program in Support of Earth Science in the Community (EarthComm), D.C. Gosselin, (P.I.), American Geological Institute, **\$57,851** June 1999 to June 2000.
- Professional Development Training for Earth Science and the Community (EarthComm) - A Pilot Project, D.C.

Gosselin, (P.I.), American Geological Institute, **\$40,000**, June 1998 to May 1999.

- Process-oriented Environmental Change Education: A Model for Connecting Research to the Classroom, D.C. Gosselin, (P.I.), co-PI Steve Meyer, UNL School of Natural Resource Sciences, National Institute of Global and Environmental Change, **\$119,000**, July 1996 to 1999.
- Enhancing K-12 Drought-Related Educational Activities and Materials, D.C. Gosselin, (P.I.), National Drought Mitigation Center, **\$11,828**, July 1997 to June 1998.
- Nebraska Earth Science Education Network: Enhancing the NASA, University, and Pre-College Science Teacher Connection with Electronic Communication, NASA, D.C. Gosselin, (P.I.), co-PI, Dale Finkelson, UNL Information Services, **\$200,000**, March 1994 to February 1997.

#### **Earth Systems and Geochemical Research (\$883,358)**

- Evaluation of Geologic Rehabilitation of Public Water Supply Wells Having High Arsenic and Uranium II: A Collaborative project between Nebraska Department of Health and Human Services System and UNL. D.C. Gosselin, P.I. Nebraska Department of Health and Human Services System. **\$62,534**. 5/1/06 to 3/31/07.
- Evaluation of Geologic Rehabilitation of Public Water Supply Wells Having High Arsenic and Uranium I: A Collaborative project between Nebraska Department of Health and Human Services System and UNL. D.C. Gosselin, P.I. Nebraska Department of Health and Human Services System. **\$31,500**. 10/1/04 to 9/30/05.
- The Nebraska Arsenic Information and Technical Support System for Public Water Supplies in Nebraska. D.C. Gosselin, P.I. Environmental Protection Agency. **\$56,100**. 10/1/04 to 9/30/06.
- Sand Hills Biocomplexity: Integrating Biogeophysical Processes across Space and Time, D. Wedin, G. Henebry, and D. Loope (PIs), Gosselin - Senior Personnel, Responsibilities include hydrogeology and Educational Outreach, National Science Foundation, **\$1,800,000** (not included in total); 10/1/03 to 9/30/07.
- A Strategy for Small Water Supply Systems in Nebraska: Focus on Arsenic. D.C. Gosselin (P.I.), F.E. Harvey, and R.M. Joeckel, co-PIs, U.S. Environmental Protection Agency. **\$25,000**. 10/1/03 to 9/30/04.
- Assessing the occurrence of Arsenic in groundwater: Implications for Small Water Supply Systems in Nebraska, D.C. Gosselin (P.I.), F.E. Harvey, and R.M. Joeckel, co-PIs; U.S.G.S. 104b Grants Program, **\$15,000**. 4/1/03 to 3/29/04.
- Arsenic Strategy for Small Water Supply Systems in Nebraska. D.C. Gosselin (P.I.), F.E. Harvey, and R.M. Joeckel, co-PIs, U.S. Environmental Protection Agency. **\$50,000**. 10/1/02 to 9/30/04.
- Upper Big Blue Natural Resources District Confined Aquifer Delineation Project. Cooperative Agreement. S. Summerside, D. C. Gosselin, and M. Jess, **\$10,990**. 2003. 1 year.
- Evapotranspiration: Linking Ground Water Hydrology with Local Climate in the Nebraska Sand Hills. Tim Arkebauer, David Billesbach, D.C. Gosselin, E. Harvey, and D. Wedin. co-PIs. UNL-Agricultural Research Division Interdisciplinary Grant. 2000. **\$20,000**. 1 year.
- Using Trace Elements for Labeling Corn Tissues and Insect Pests for Mark-Recapture Experiments. Blair Siegfried, D.C. Gosselin, L.Meinke, T. Hunt, and E. Harvey, co-PIs. UNL-Agricultural Research Division Interdisciplinary Grant. 2000. **\$39,920**. 2 years.
- Hydrogeology of Saline Wetlands in Eastern Nebraska. Ed Harvey, J.F. Ayers, and D.C. Gosselin, co-PIs. U.S. Environmental Protection Agency. 1997. **\$73, 764**. 2 years.
- Twin Platte Natural Resources District Water Quality Study. D.C. Gosselin and J. Goeke, co-PIs. Twin Platte Natural Resources District. 1995. **\$16,500**. 1 year.
- The Hydrologic Dynamics of Wet Meadows in the Nebraska Sand Hills. D.C. Gosselin, PI. U.S. Environmental Protection Agency. 1993. **\$62,950**. 3 years.
- Domestic Well Quality Rural Nebraska. D.C. Gosselin, PI. Nebraska Department of Health. 1993. **\$20,000**. 1 year.
- Monitoring Lakes and Wetlands. D.C. Gosselin and D.C. Rundquist, co-PIs. U.S. Department of Energy National Institute for Global Environmental Change. **\$250,000**. 1993. 3 years.
- Irrigation Wells as Sampling Mechanisms. D.C. Gosselin and J.F. Ayers, co-PIs. U.S. Dept. of Agriculture Cooperative States Research Service. **\$122,100**. 1992. 3 years.
- Bazile Triangle Groundwater Quality Project, P.I. for EPA/DEQ grant to Lower Elkhorn, Upper Elkhorn, Lower Niobrara, and Lewis and Clark Natural Resources District, 5/1989 – 2/10/90. **\$9,000**.

#### **TEACHING ACTIVITIES**

##### **Courses Taught**

**ENVR 101:** Environmental Studies Orientation

**ENVR 201:** Science, Society, Environment, and Sustainability – Face-to-Face & Online

**ENVR 319:** Environmental Engagement in the Community

**ENVR 495:** Internship in Environmental Studies

**ENVR 499a&b:** Senior Thesis

**UHON 395H:** Water, Society and the Future

**NRES 108:** Earth's Natural Resource Systems - Face-to-Face & Online

**NRES 299a:** Earth Systems Science for Educators

**NRES 809:** Laboratory Earth: Earth and its Systems - Online

**NRES 814:** Laboratory Earth: Earth's Natural Resource Systems -Online

**NRES 422/822:** Laboratory Earth: Earth's Changing Systems - Online

**NRES 896:** Independent Study: Integrated Earth Systems Science Research.

**TLTE 895,** Independent Study Professional Development Credits for Educators.

### **Graduate Student Advising**

Major or Co-Major Advisor: 6 Ph.D Students; 5 M.S. Students; 14 Masters of Applied Science (MAS) Students

Committee Member: 7 Ph.D Students; 3 M.S. Students

### **Undergraduate Senior Thesis Advising**

As Senior thesis instructor – mentored more than 250 senior thesis projects

## **PUBLICATIONS**

### **Book**

**Gosselin, D.** (ed) (2023) A Practical Guide for Developing Cross-Disciplinary Collaboration Skills. Association of Environmental Studies and Sciences Book Series, Springer – Nature, 193 p., ISBN 978-3-031-37219-3.

**Gosselin, D.**, Egger, A., and Taber, J. (Eds.) 2019, Interdisciplinary Teaching about Earth and the Environment for a Sustainable Future. Association of Environmental Sciences and Studies (AESS) Book Series, Springer – Nature, 386 p. ISBN: 978-3-030-03272-2.

**Gosselin, D.**, 2015. Focus on Them: A Mindset Revolution for Coaches, Educators, and Business Leaders. Aloha Publishing. Eagle, Idaho. ISBN: 978-1-61206-113-9.

### **Editorial Responsibilities**

Guest Editor. 1997. Journal of Paleolimnology, Special Issue Modern and Ancient Lake Environments of the Great Plains, 17(1), 154p.

Special Issue Co-Guest Editor. 2015. Journal of Environmental Studies and Sciences. Negotiating Boundaries: Effective Leadership of Interdisciplinary Environmental and Sustainability Programs.

Cuker, B., Crawford, M., Chambers, R., Gosselin (Editor - Team Lead), D. (2017). Renewable Energy and Environmental Sustainability Course., David Gosselin, Mary Savina, Monica Bruckner (Ed.), InTeGrate's Peer Reviewed Module and Course Collection.

[https://serc.carleton.edu/integrate/teaching\\_materials/energy\\_sustain/index.html](https://serc.carleton.edu/integrate/teaching_materials/energy_sustain/index.html)

Schulterbrandt Gragg III, R., Warford, J., Hewitt, C., Akinyemi, A., Young, C., McClendon, B., Gosselin (Editor and Team Lead), D. (2017). Food as the Foundation for Healthy Communities., David Gosselin, Joshua Caulkins, Monica Bruckner (Ed.), InTeGrate's Peer Reviewed Module and Course Collection.

[https://serc.carleton.edu/integrate/teaching\\_materials/food\\_energy\\_water/index.html](https://serc.carleton.edu/integrate/teaching_materials/food_energy_water/index.html)

Korfmacher, K., Richmond, M., Waggett, C., Gragg, R., Gosselin (Editor - Team Lead), D. (2017). Lead in the Environment Module., David Gosselin, Leilani Authurs, Monica Bruckner (Ed.), InTeGrate's Peer Reviewed Module and Course Collection. [https://serc.carleton.edu/integrate/teaching\\_materials/lead/index.html](https://serc.carleton.edu/integrate/teaching_materials/lead/index.html)

Conklin, M., Gill, S., McDowell, B., Washburne, J., White, T., Hoffman, A., Gosselin (Editor - Team Lead), D., Deere, A. (2017). Critical Zone Science Course., David Gosselin, Stuart Birnbaum, Monica Bruckner (Ed.), InTeGrate's Peer Reviewed Module and Course Collection.

[https://serc.carleton.edu/integrate/teaching\\_materials/critical\\_zone/index.html](https://serc.carleton.edu/integrate/teaching_materials/critical_zone/index.html)

Davi, N., Plake, T., Sinton, C., Turner, R., Gosselin (Editor - Team Lead), D. (2017). Water, Agriculture, and Sustainability., David Gosselin, Joshua Caulkins, Monica Brucker (Ed.), InTeGrate's Peer Reviewed Module and Course Collection. [https://serc.carleton.edu/integrate/teaching\\_materials/water\\_sustainability/index.html](https://serc.carleton.edu/integrate/teaching_materials/water_sustainability/index.html)

## Refereed Publications (n = 82)

### **Educational and Learning Sciences Research**

**Gosselin, D.C.** (2026). Infusing Energy into Undergraduate Education: A Collaborative Curriculum Development Approach. In Pappa V, Danielson A, Weber AS, eds. *Energy Education in a Transitioning World*. Cambridge University Press.

**Gosselin, D.C.** (2024). A Process-Oriented, Collaborative, Authentic Learning Approach to Community – Campus Engagement. *Journal Environmental Studies and Sciences*. 14, 834–845 (2024). <https://doi.org/10.1007/s13412-024-00945-x>.

Shelley E. Olds, S.E., Low, R.D., Burbach, M.E., Shope, R.J., Tang, Z., **Gosselin, D.C.** (2023 in Review) A Systemic Literature Review on the Social Interactions, Self-Efficacy, And Social Demographic Factors that Contribute to Earthquake Preparedness Action, *International Journal of Disaster Risk Reduction*

Shelley E. Olds, S.E., Low, R.D., Burbach, M.E., Shope, R.J., Tang, Z., **Gosselin, D.** (2023 in Review) How Are They Getting Ready? The Process of Earthquake and Tsunami Preparedness Among Individuals in Coastal Oregon. *The International Journal of Mass Emergencies and Disasters*.

Carroll Steward, K., **Gosselin, D.**, Chandler, M., & Forbes, C. T. (2023). Student Outcomes of Teaching About Socio-scientific Issues in Secondary Science Classrooms: Applications of EzGCM. *Journal of Science Education and Technology*. <https://doi.org/10.1007/s10956-023-10068-7>

Carroll Steward, K., **Gosselin, D.**, Bhattacharya, D., Chandler, M., & Forbes, C. T. (2024). Teachers' use and adaptation of a model-based climate curriculum: A three-year longitudinal study. *Journal of Geoscience Education*, 0(0), 1–13. <https://doi.org/10.1080/10899995.2024.2302788>

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**Gosselin, D.**, Bonnstetter, R. and Rowan, S. 2017. Modeling Collaborative Team Building to Address Wicked Problems: Navigating and Negotiating dispositional distance. Earth Educators Rendezvous, July 17- 21, 2017. University of New Mexico, Albuquerque, NM

**Gosselin, D.**, Egger, A., and Taber, J. 2017. Curriculum Materials and Approaches to Prepare Students for an Interdisciplinary Future. Earth Educators Rendezvous, July 17- 21, 2017. University of New Mexico, Albuquerque, NM

**Gosselin, D.C.** 2016. Connecting the Earth to Societal Challenges: New interdisciplinary materials from the InTeGrate project. Earth Educators Rendezvous, July, University of Wisconsin, Madison.

Manduca. C.A., Bralower, T.J., Egger, A.E., McConnell, D. A., **Gosselin, D.C.**, Taber, J., and Steer, D. 2015. Developing capacity to address societal issues: Principles and examples from InTeGrate. Geological Society of America Abstracts with Programs Abstract #263102. Baltimore, MD

Manduca, C.A., Blockstein, D., Bralower, T., Davis, F., Doser, D., Egger, A., **Gosselin, D.C.**, Iverson, E., Kastens, K.A. and Orr, C.H., 2015. Linking Geoscience and Societal IssuesL A Strategy for making geoscience more central in higher education. Geological Society of America Abstracts with Programs Abstract #263111. Baltimore, MD

Huyck Orr, C., McDaris, J., and **Gosselin, D.C.**, 2015. Building Interdisciplinary Sustainability Programs. Earth Educators Rendezvous, July 13-17, University of Colorado – Boulder.

O'Connell, K., Bruckner, M., **Gosselin, D.C.**, C. Manduca. 2015. Supporting Interdisciplinary Teaching about the Earth for a Sustainable Future with the InTeGrate Website. Earth Educators Rendezvous, July 13-17, University of Colorado – Boulder.

Williams, G., Low, R., and **Gosselin, D.C.**, 2015. Climate Change and Sustainability Science: Educative Curriculum Materials. Earth Educators Rendezvous, July 13-17, University of Colorado – Boulder.

**Gosselin, D.C.** and Bonnstetter, R.J. 2015. Preparing students for collaborative leadership in sustainability: Applications of using business-based professional assessments to develop interdisciplinary and service learning teams. Earth Educators Rendezvous, July 13-17, University of Colorado – Boulder.

**Gosselin, D.**, 2015. Preparing Students for the Future through Research-Based Service Learning in the Community. Association of Environmental Studies and Sciences Annual Meeting, June 24-27, San Diego, CA.

**Gosselin, D.**, 2015. Preparing Students for Collaborative Leadership: Lowering the walls and crossing boundaries using business-based professional assessments to develop interdisciplinary teams Leadership in Interdisciplinary Research and Education, Association of Environmental Studies and Sciences Annual Meeting, June 24-27, San Diego, CA.

Bruckner, M.Z, Kirk, K.B., **Gosselin, D.C.**, Manduca, C. Blockstein, D. and Bralower, T.J. 2014. Building the Workforce for a Sustainable Future: Resources for Educators and Students. Geological Society of America Abstracts with Programs Vol. 46, No. 6, Abstract 249084. Vancouver, B.C.

Manduca, C.A., Phillips, M.A., Mogk, D.W. and **Gosselin, D.C.** 2014. Building Transdisciplinary Teaching Capacity. Geological Society of America Abstracts with Programs Vol. 46, No. 6, Abstract 248219. Vancouver, B.C.

McConnell, D.A., Manduca, C., Baldassari, C., Bralower, T., Egger, A.E., **Gosselin, D.C.**, Iverson, E., Pelch, M.A., Steer, D. and Taber, J., 2014. Professional Development and Implications for Changing Instructional Practices and beliefs: Lessons Learned in the Integrate Program. Geological Society of America Abstracts with Programs Vol. 46, No. 6, Abstract 249084. Vancouver, B.C.

**Gosselin, D. C.**, Low, R., Mandryk, C. A., and Haney, C. 2014. Geoscience of K-12 Educators: An integrated, online approach. North Central Section, Geological Society of America, Abstracts with Programs.

Pennington, D., Aditomo, N., Bammer, G. Danielson, A., **Gosselin, D.C.** and 5 others. 2014. Knowledge synthesis and development of solutions in interdisciplinary research teams using model-based reasoning. 2014 INGRoup Conference, Ninth Annual. Raleigh, NC, USA.

Low, R., Mandryk, C., **Gosselin, D.C.**, and Haney, C. 2014. Using Extreme Weather Events, Local Climate Change Research and Data Analysis, and Community Service Learning as Authentic Engagement Activities to Foster Action and Behavior Change. American Meteorological Society Annual Meeting. Abstract 240142. Atlanta, Georgia. Feb, 2-6.

**Gosselin, D.**, 2014. Silo Busting for Dummies I and II: If we can so can you!!! Association of Environmental Studies and Sciences Annual Meeting, June 11-14, New York, NY. (Panel Organizer)

**Gosselin, D.C.**, Kirk, K., and Manduca, C. 2013. Preparing students for the complexities of future employment: Linking learning outcomes, 21<sup>st</sup> century competencies, and the geosciences. Paper #231077. Geological Society of America Abstracts with Programs. Denver, CO. Oct. 26 to 30,.2013.

Low, R., Mandryk, C., **Gosselin, D.C.**, and Haney, C. 2013. Beyond Knowledge: Service Learning and Local Climate Change Research Engagement Activities that Foster Action and Behavior Change, 2013 Fall AGU, San Francisco, CA.

**Gosselin, D.C.**, Low, R. Mandryk, C. and Haney, C. 2013. Laboratory Earth: The foundation for an integrated, On-line, graduate level, science for educators, masters program. Abstract 231949. Geological Society of America Abstracts with Programs. Denver, CO. Oct. 26 to 30, .2013

Low, R., Mandryk, C.A., Haney, C., and **Gosselin, D.C.** 2013. Inspiring community engagement: The role of local climate change research and service learning. Abstract 232613. Geological Society of America Abstracts with Programs. Denver, CO. Oct. 26 to 30,2013.

**Gosselin, D.C.**, Manduca, C.A., Oches, E.A., MacGregor, J. and Karin B Kirk, K.B. Systems, Society, Sustainability and the Geosciences: A Workshop to Create New Curricular Materials to Integrate Geosciences into

the Teaching of Sustainability. Abstract ED51E-05 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., Dec. 3-7.

**Gosselin, D.C.**, 2013. Interdisciplinary Environmental Program Team USA: Linking Assessment, Professional Competencies, and Careers. Association of Environmental Studies and Sciences Annual Meeting, June 19-22, Pittsburgh, PA. (Panel Organizer)

**Gosselin, D.C.**, 2013. Integrating Geoscience into Sustainability through Scientific Research and Learning. Association of Environmental Studies and Sciences Annual Meeting, June 19-22, Pittsburgh, PA. (Panel Organizer) Low R., **Gosselin D.C.**, Haney C., Larson-Miller C., Bonnstetter, R., and Mandryk C. 2012. Laboratory Earth Under the Lens: Diachronic Evaluation of an Integrated Graduate-Level On-Line Earth System Science Course Series for K-12 Educators, Abstract ED41D-0698 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Blockstein D., **Manduca C.**, Bralower T.J., Castendyk D., Egger A.E., **Gosselin D.C.**, and 9 others. 2012. InTeGrate: Transforming the Teaching of Geoscience and Sustainability, Abstract ED51E-02, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7.

O'Connell K., Bruckner M.Z., Buhr S.M., **Gosselin D.C.**, Kirk K.B., Larsen K., Ledley T.S., Manduca , C. A., Mogk D.W., and Wiese K., 2012. Sustainability and Climate Change Teaching Resources. Abstract 141-14. Geological Society of America Annual Meeting Abstracts with Programs.

**Gosselin D.C.**, 2012. Integrating 21st Century Skills into an Undergraduate Environmental Studies Program at the University of Nebraska-Lincoln. Association of Environmental Studies and Sciences Annual Meeting. June 21-24 Santa Clara CA.

Low R, **Gosselin, D.C.**, Oglesby , R.J., Larson-Miller, C., Thomas, J., Mawalagedara, R. 2011. Integrating Scientific Content with Context to Connect Educators with the Complexities and Consequences of Climate Change Title, Abstract ED21C-0599 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec. (abstract and poster)

**Gosselin, D.**, Cooper, S., Bonnstetter, R., and Bonnstetter, B. 2010. Integrating 21<sup>st</sup> Century Skills into an Undergraduate Environmental Studies Program at the University of Nebraska-Lincoln. National Academic Programs Summit, American Public Landgrant Universities. Aug. 3-5, 2011. Indianapolis, IN.

**Gosselin, D.** 2011. Enabling Sustainable Thinking in an Undergraduate Environmental Studies Program.

Association of Environmental Studies and Sciences Annual Meeting. Burlington Vermont. June 23-26, 2011.

Woudenberg, D L., **Gosselin, D. C.**, Bonnstetter, R. J., Larson-Miller, C. S. and Low, R., 2010. Global climate change literacy for educators: Using on-line professional development to integrate content and pedagogy. The 90th American Meteorological Society Annual Meeting (Atlanta, GA), January.

Li, R., Merchant, J., Chen, X., Oglesby, R., **Gosselin, D.** .2009. Reducing Uncertainty in Characterization of the Vadose Zone for Modeling Groundwater Vulnerability, American Geophysical Union (AGU) Annual Conference, Dec. 14-18, 2009. San Francisco, CA.

**Gosselin, D.C.**, Bonnstetter, R. J. and Yendra, S., 2008. Laboratory Earth: Building a case for content mastery activities as a method for the assessment of learning. Earth Systems Science Education Alliance annual meeting. Charleston, S.C. (abstract and presentation)

**Gosselin, D.C.**, Bonnstetter, R. J., Yendra, S. and Slater, T., 2007. Laboratory Earth: Connecting Everything to Everything Else Online for Pre-college Educators, Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract ED43A-06. (abstract and presentation)

**Gosselin, D.C.**, Bonnstetter, R. J., Yendra, S., Slater, T., and Doll, B., 2007. Laboratory Earth: Making Earth System Science Alive Online for Elementary Teachers. Geological Society of America Abstracts with Programs, Vol. 39, No. 6, p. 410 (abstract and presentation)

**Gosselin, D.C.**, and Grew, P., 2002. Earth Scope Education and Outreach in Nebraska, Creating the EarthScope Legacy Workshop, August 4- 7, 2002, Tucson, AZ. (abstract)

**Gosselin, D.C.**, and Grew, P., 2002. What's Underneath Our Classroom? --Helping Undergraduates Visualize Solid Earth Processes of the Continental Interior. Solid Earth Sciences Workshop, October 26, 2002, Denver, CO.

**Gosselin, D.C.**, Buck, G. A., Bonnstetter, R. J. , and Levy, R. H., 2001. Effects of Research Experiences for Teachers on the Knowledge and Understanding of Scientific Principles and Practices. National Association for Research in Science Teaching Annual Meeting, St. Louis, MO.

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**Gosselin, D.C.**, Levy, R. H., Buck, G. A. and Bonnstetter, R. J., 2001. Utilizing Earth science research to establish collaboration between scientists and educators. Geological Society of America Meeting Abstracts and Program, 33, p. A-353.

M.A. Mesarch, Mohlman, D.R., and **Gosselin, D.C.**, 1998. Drought education material from NESEN/NDMC for a 5-12 Audience. Proceedings of the Nebraska Academy of Sciences, Annual Meeting, April.

Mohlman, D.R., Mesarch, M.A., and **Gosselin, D.C.**, 1997. The Nebraska Earth Science Education Network (NESEN): Connecting University Resources and K-12 Earth Science Educators. (abstract) Proceedings of the Nebraska Academy of Sciences, Annual Meeting, April.

**Gosselin, D.C.**, Mohlman, D.R., Meyer, S.J., Mesarch, M.A. and Lang, B.P., 1997. Nebraska Earth Science Education Network (NESEN): Connecting University Resources and Earth Science Educators, GeoSciEd II, Second International Conference on Geoscience Education, University of Hawaii-Hilo, July 28-31.

**Gosselin, D.C.**, Mohlman, D.R. and Carlson, M.P., 1995. Nebraska Earth Science Education Network (NESEN): A State Geological Survey Enhancing the University-Teacher Connection, (abstract) Geological Society of America Annual Meeting Abstracts with Programs, A-414.

**Gosselin, D.C.**, 1995. Nebraska Earth Science Education Network, Coalition for Earth Science Meeting, Washington, D.C., June 2-4, 1995.

**Gosselin, D.C.**, 1994. Nebraska Earth Science Education Network, (abstract) Coalition for Earth Science Meeting, Reston, Virginia, March 4-6, 1994.

### Earth Systems and Geochemical Research

Stotler, R.L., Frape, S.K., Harvey, F.E., **Gosselin, D.C.**, Shouakar-Stash, O., el Mugammar, H. 2011.  $^{83}\text{Cl}$  and  $^{81}\text{Br}$  fractionation during evaporation in the Alkaline Lakes Region, Sand Hills, Nebraska. Abstract EP41B-0621 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

R. Li, Merchant, J., Chen, X.H., Oglesby, R., and **Gosselin, D.** 2009. Reducing Uncertainty in Characterization of the Vadose Zone for Modeling Groundwater Vulnerability. Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract H31C-0795.

McVey, K. J., **Gosselin, D.C.**, Klawer, L.M. and Clement B. J., 2008. Biology, Microbial Mediation of Uranium and Arsenic Concentrations in Nebraska Public Water Supply Wells, Nebraska Academy of Sciences 108th Annual Meeting, April 2008.

McVey, K.J., **Gosselin, D.C.**, Clement, B. J., and Klawer, L. M. 2007. High Uranium and arsenic concentration affects microbial diversity in Nebraska Public Water Supply wells. Geological Society of America Abstracts with Programs, Vol. 39, No. 6, p. 67

McVey, K., and **Gosselin, D.C.** 2006. Uranium in Nebraska's Public Water Supply Wells. Midwest Groundwater Conference, Lincoln, NE. November 7 to 9, 2006.

**Gosselin, D.C.**, Klawer, L.M, Harvey, F.E. and Warren, K.J., 2004. Arsenic in Nebraska's groundwater and public water supplies, Geological Society of America Annual Meeting, Denver, Colorado, November 6 to 10, Abstracts With Programs, Vol. 36, No. 5, p.356

Harvey, F.E., Stotler, R.L. and **Gosselin, D.C.** 2004. A Black Hills origin for groundwater in the Dakota aquifer of northeastern Nebraska, Geological Society of America Annual Meeting, Denver, Colorado, November 6 to 10, Abstracts With Programs, Vol. 36, No. 5, p. 451.

Niimi, B.T., T.M. Nowatski, T.M., Siegfried, B., Meinke, L., Hunt, T., **Gosselin, D.C.**, Harvey, E. and Warner, K.. 2002. In-field labeling of western corn rootworm adults with rubidium.) North Central Branch - Entomological Society of America, East Lansing, MI, March 24 to 26. Matson, S.D., Goeke, J.W., **Gosselin, D.C.**, and Harvey, F.E. 2002. Investigation of groundwater ad surface water interactions in an irrigated area of western Nebraska using geochemical and stable isotope evidence. Proceedings of the Nebraska Academy of Sciences, April 26 - 27, 2002, p. 51.

Ayers, J.F., Harvey, F.E. and **Gosselin, D.C.** 2002. Groundwater Flow and Salt Transport in Saline Wetlands of Eastern Nebraska, Geological Society of America Annual Meeting, Denver, Colorado, October 27-30, Abstracts With Programs, Vol.34, No. 6, p 57.

**Gosselin, D.C.**, Harvey, F.E., Billesbach, D., Arkebauer, T. and Wedin, D., 2002. What Do You Get When You Cross a Hydrogeologist, Geochemist, Physicist, Plant Physiologist, and a Grassland Ecologist?: An Interdisciplinary Project in the Nebraska Sand Hills, Geological Society of America Annual Meeting, Denver, Colorado, October 27-30, Abstracts With Programs, Vol.34, No. 6, p 57.

Billesbach, D., Arkebauer, T., **Gosselin, D.C.**, Harvey, F.E and Wedin, D. 2002. Evaporation in the Nebraska Sand Hills. American Geophysical Union Annual Meeting, San Francisco, AGU, 83(47), Fall Meet. Suppl., Abstract H52D-0899.

Putnam, S., Siegfried, B., Meinke, L., Hunt, T., **Gosselin, D.C.**, Harvey, E., and Warren, K.. 2001. In-field labeling of western corn rootworm using soil applied Rubidium. North Central Branch, Entomological Society of America, 56<sup>th</sup> Annual Meeting, Fort Collins, CO. March 25-28, p. 24.

Stotler, R.L., Harvey, F.E., and **Gosselin, D.C.**, 1999. Isotopic Evidence for Pleistocene Recharge in the Dakota Aquifer of Nebraska (abstract) Geological Society of America Annual Meeting, Denver, CO. Abstracts with Programs, Vol. 31, No. 7, A-349.

Adelman, D.D. and D.C. **Gosselin, D.C.**, 1999. Assessment of Water Quality in Rural Domestic Wells and Community Water Supplies. Nebraska Midwest Ground Water Conference, St. Paul, MN.

**Gosselin, D.C.**, F.E. Harvey, D.B. Strickland, and R. Stottler. 1998. Major Ion, O-18, and D Variations in Groundwater from the Dakota Aquifer of Nebraska.. Geological Society of America Annual Meeting, Toronto, Canada, Abstracts with Programs, A-86.

Drda, S., **Gosselin, D.C.** and Harvey, F.E., 1997. Hydrologic and Geochemical Comparison of Two Interdunal Valleys, Nebraska Sand Hills. Nebraska Academy of Sciences, Annual Meeting, April. (abstract)

**Gosselin, D.C.**, Khisty, M., Rundquist, D.C. and Harvey, F.E., 1997. Natural Responses of Shallow Lakes and Wetlands to Climatic/Environmental Change: Focus on the Nebraska Sand Hills. Accepted for The Great Plains symposium 1997: The Ogallala Aquifer, "Managing for Drought and Climate Change" 1997 Nebraska Water Conference.

**Gosselin, D.C.**, Harvey, F.E., Drda, S. and Goeke, J., 1996. Comparison of the Hydrologic and Geochemical Dynamics of Two Interdunal Valleys, Central Sand Hills, Nebraska, Geological Society of America Annual Meeting Abstracts with Programs.

Chen, X., Ayers, J.F. and **Gosselin, D.C.**, 1996. Using Sensitivity Analysis for the Determination of Aquifer Parameters, including Vertical Hydraulic Conductivity. Geological Society of America Annual Meeting Abstracts with Programs.

Ayers, J.F., Chen, X., and **Gosselin D.C.**, 1996. Numerical Modeling of Contaminant Behavior Near a Pumping High-Capacity Well. Geological Society of America Annual Meeting Abstracts with Programs. Khisty, M.J., **D.C. Gosselin**, and Rundquist D.C., 1995. Characterizing A Groundwater-Lake System in the Nebraska Sandhills Using A Mass Balance Approach and Remotely Sensed Data, North Central-South Central Sections, Geological Society of America, Abstracts with Programs, 64.

**Gosselin, D.C.**, and D.C. Rundquist. 1995. The Western Lakes Project: Multidisciplinary Investigations of Hydrologically Dynamic Fresh to Saline Lakes of Nebraska, North Central-South Central Sections, Geological Society of America, Abstracts with Programs, 52.

Ayers, J.F., **Gosselin, D.C.**, Guretzky, J.C. and Drda, S., 1995. An Analysis of High-Capacity Wells as Groundwater Sampling Mechanisms, Geological Society of America Annual Meeting Abstracts with Programs, A-101.

**Gosselin, D.C.**, Ayers, J.F., Rundquist, D., Sibray, S., and Matherne, A.M., 1993. The Alkali Lakes Project: A Multidisciplinary Investigation of a Dynamic Hydrologic and Geochemical System. Annual Meeting of Front Range Section, American Geophysical Union, Golden, CO, 11.

**Gosselin, D.C.**, Nabelek, P.I., and Peterman, Z., 1993. Major Ion, O-18, and Sr variations in K-rich Lakes of the Alkali Lakes Region, Western Nebraska. Geological Society of America Annual Meeting Abstracts with Programs, A320.

Matherne, A.M., **Gosselin, D.C.**, and Ayers, J.F., 1992. The Role of Groundwater in Maintaining Saline Lakes, Western Nebraska Sandhills. EOS Supplement, American Geophysical Union, 73, no. 14, 132.

**Gosselin, D.C.**, 1992. An Overview of Archean Rocks in the Black Hills, South Dakota, Rocky Mountain Section, Geological Society of America, Abstracts with Programs, 15. (Oral Presentation)

**Gosselin, D.C.**, Matherne, A.M., Ayers, J.F., and Sibray, S., 1991. Geochemical Characteristics of Alkaline Lakes in the Western Sand Hills, Nebraska, Geological Society America Abstracts with Programs, 23, A153. (Poster Presentation)

**Gosselin, D.C.** and Ayers, J.F., 1991. Hydraulic Influences on the Distribution of Agrichemicals within a Groundwater System, 36th Midwest Groundwater Conference Program with Abstracts, 21. (Oral Presentation)

Ayers, J.F., **Gosselin, D.C.**, and Zhang, Y.K., 1991. Water Samples from Irrigation Wells - How Representative Are They?, 36th Midwest Groundwater Conference Program with Abstracts, 48.

Ayers, J.F., Zhang, Y.K. and **Gosselin, D.C.**, 1991. Water-Sampling Regime Around High-Capacity Wells--An Analysis, Geological Society America Abstracts with Programs, 23, A326.

Laul, J.C., **Gosselin, D.C.** and Smith, M.R., 1989. The Bholghati Consortium: Chemical Study of the Bholghati Howardite. Lunar Planet Science XX, 558-559.

Smith, M.R., Koppenaal, D.W., **Gosselin, D.C.** and Laul, J.C., 1989. Direct Analysis of Geologic and Meteorite Samples Using Laser Ablation Inductively Coupled Mass Spectrometry Lunar Planet Science XX, 1026-1027.

**Gosselin, D.C.**, and Laul, J.C., 1989. Chemistry of Allan Hills 85085: Characterization of a Unique Chondrite (abstract), Lunar Planet. Science XX, 349-350.

**Gosselin, D.C.**, Laul, J.C., Smith, M.R. and Reid, A.M., 1989. The Bholghati Consortium: Preliminary Chemical and Petrologic Characterization of the Bholghati Howardite, Meteoritical Society Meeting, Fayetteville, AR, July, 207.

**Gosselin, D.C.**, Papike, J.J., Zartman, R.E., Peterman, Z.E. and Laul, J.C., 1987. Archean Rocks of the Black Hills, South Dakota: Reworked Basement from the Dakota Segment of the Trans-Hudson Orogen (abstract), Geologic Association Canada - Mineralogical Association Canada Annual Meeting, May, Saskatoon, Saskatchewan, 48.

Simon, S.B., Papike, J.J. and **Gosselin, D.C.**, 1986. Petrology of Luna 24 Grain Size Separates, Lunar and Planetary Science XVII, 801-802.

## **PROFESSIONAL IMPROVEMENT ACTIVITIES**

**Groundwater Concepts and Models.** U.S. Geological Survey Training Course, National Training Center, Denver, CO, March 26-April 5, 1990.

**Applications of Aqueous Geochemistry to Groundwater Investigations.** Colorado Groundwater Association, Denver, CO, April 10-12, 1991.

**Geochemical Modeling Workshop.** U.S. Geological Survey Training Course, National Training Center, Denver, CO, February 10-14, 1992.

**Estimating Groundwater Recharge.** Geological Society of America, Denver, CO, October 25, 2002.

## **COMMITTEE and SPECIAL ASSIGNMENTS**

### **National:**

Chair, Professional Development Committee, Association of Environmental Studies and Sciences, 09/2018 – 01/2020.

Member Board of Directors, Association of Environmental Studies and Sciences, 08/2015 – 08/2018.

Member, Council of Environmental Deans and Directors Executive Committee, Member, 08/2008 – 08/2015.

Chair, Curriculum Committee - Council of Environmental Deans and Directors, 10/2010 – 08/2015.

Representative to the Coalition for Earth Science Education.

Member Peer-review Panel, Project Assessment for Geosciences Research, Office of Basic Energy Sciences, U.S. Department of Energy, July 11-16, 1993; Berkeley, CA.

Nebraska's representative on the NCR-174 committee, Synchrotron X-ray Sources in Soil Sciences (resigned 3/96)

Member, Executive Committee, Applying Community Technology Today, Groundwater Foundation

### **Regional:**

Liaison Committee for the Central Nebraska Basins Study Unit, National Water Quality Assessment (NAWQA) program, U.S. Geological Survey. (Resigned 4/95)

Coordinated Earth Science Education activities at the joint meeting of the North Central and South Central sections of the Geological Society of America to held in Lincoln, NE, April 27-29, 1995.

Curriculum Advisory Committee, Department of Geology, South Dakota School of Mines and Technology

### **State:**

Reviewer of Boyd County Low Level Radioactive Waste Disposal Facility Application. Reviewed sections on geochemical, hydrological characterization, and environmental monitoring.

Program Committee for the Mid-Nebraska Water Quality Demonstration Project.

### **Local:**

Member, City of Lincoln, Community Committee on Local Food, June 2022 to Present

Member, Mayor's Environmental Task Force, April 2015 to Present  
 Member, Mayor's Climate Resiliency Task Force, September 2019 to May 2020  
 Member, Lincoln Lancaster County Ecological Advisory Committee, May 2015 to May 2017  
 Member, Lincoln Water System Stakeholder Committee, October 2013 to January 2015

**University of Nebraska-Lincoln:**

Co-Chair, Chancellor's Environment, Sustainability, and Resilience Commission, August 2017 to present  
 Member, Chancellor's Sustainability Commission, May 2015 to August 2017  
 Member, Center for Science, Mathematics, and Computer Education - Science Advisory Board, 05/2010-05/2011  
 Member, University of Nebraska Online Learning Initiative, Instructional Design and Faculty Support, Community of Practice, 08/2009-12/2011  
 Member, Secondary Science Education Advisory Committee - Teacher's College  
 Member, UNL Outreach Council (1/96-5/96)  
 Member, Nebraska Colloquium Advisory Council

**Institute of Agriculture and Natural Resources:**

Member, CASNR Distance and Online Education Advisory Team, College of Agricultural Sciences and Natural Resources, 10/14 to Present  
 Member, Masters of Applied Science Curriculum Committee, 08/2009-Present  
 Member, Bachelors of Science in Applied Science Curriculum Committee, 11/2007-Present  
 Member, Faculty Advisory Committee, College of Agricultural Sciences and Natural Resources 8/12 to 7/14  
 Member, Forensic Science Curriculum Committee (2005 - 2007)  
 Member, Faculty Advisory Committee, College of Agricultural Sciences and Natural Resources (9/99 to 6/00)  
 Member, School of Natural Resources (SNR) Faculty Implementation Committee (9/96 - 8/97)  
 Member, Advisory Committee, Office of Professional and Organization Development.  
 Member, 1999 IANR Faculty Conference Planning Committee  
 Member, International Center for Groundwater Research and Education Planning Committee (8/99)  
 Member, Conservation and Survey Division and SNR Integration Committee (4/02 - 7/03)

**School of Natural Resources Sciences:**

Natural Resources Undergraduate Curriculum Committee, School of Natural Resources, (08/08 – 08/14)  
 Member, Curriculum Committee (8/97 – 7/99)  
 Chair and Co-Chair, Curriculum Committee (7/98 to 6/99)  
 Member, Advisory Committee to the Director (10/01 to 7/03)  
 Chair, Director's Interim Advisory Committee 9/03 – 7/04

**Conservation and Survey Division:**

Member, Conservation and Survey Division Management Team (5/99 to 7/03).  
 Chair, Outreach Committee (Committee Reappointed 8/97)  
 Member, CSD Strategic Planning Committee (Committee Reappointed 3/95)  
 Member, Computing Committee (Resigned 9/95)

**Community Service:**

Head Women's Soccer Coach, Lincoln Lutheran High School, January 2008 to Present  
 Youth Soccer Coach – Lincoln Spirit Soccer Club and YMCA 1996 to 2019  
 State Director of Education, National Soccer Coaches Association of America, January 2007 to September 2012  
 Member, Executive Board, Lincoln Spirit Soccer Club, June 2002 to September 2012  
 Director of Coaching, Lincoln Spirit Soccer Club, June 2002 to September 2012  
 District One Commissioner, Nebraska State Soccer Association, December 2005 to November 2007  
 Assistant Women's Soccer Coach, Lincoln Lutheran High School, January 2004 to December 2007.  
 Assistant Women's Soccer Coach, Lincoln Northeast High School, January 2002 to May 2003  
 Assistant Women's Soccer Coach, Nebraska Wesleyan University, August 1998 to December 2000