

School of Natural Resources
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Education

- Ph.D. *Community and Human Resources (Leadership Studies)*
University of Nebraska-Lincoln
- M.C.R.P. *Community and Regional Planning (Water Res. Planning & Mngt)*
University of Nebraska-Lincoln
- B.S. *Natural Resources, Emphasis: Water Resources*
University of Nebraska-Lincoln

Awards, Honors, and Special Achievements

- 63 Refereed Journal Publications
- 7 Book Chapters
- 83 Refereed Conference Proceedings/Abstracts
- 202 Professional Presentations
- 1 Editor, Conference Proceedings
- 1 Co-editor, special journal issue (JCWRE, Volume 167, 2020)
- Awarded, Bessey Award for best natural science article, *Great Plains Research*, 2020
- Awarded, Fellow, Environmental Studies Program, 2020
- Awarded, Fellow, Dougherty Water for Food Global Institute, 2018
- Awarded, 2nd Place Poster, Water Symposium, Nebraska Water Center, 2016
- Awarded, 3rd place poster, Nebraska Chapter of The Wildlife Society, 2016
- Awarded, Best Poster, The Wildlife Society, 2015
- Awarded, Best Poster, Water Symposium, Nebraska Water Center, 2015
- Awarded, John C. Frye Memorial Award, Assoc. of American State Geologists, 2014
- Awarded, 25-year Service Award, University of Nebraska-Lincoln, 2014
- Awarded, Distinguished Service Award, Center for Great Plains Studies, 2013
- Awarded, 3rd place poster, American Assoc. for Ag. Education Research Conf., 2010
- Certificate of Appreciation, Leadership Dev. Program, Lincoln Public Schools, 2008
- Awarded, Bessey Award for best natural science article, *Great Plains Research*, 2007
- Awarded, Graduate Faculty, 2006
- Awarded, 2nd place poster, Soil & Water Conservation Society Nebraska Chapter, 2007
- Awarded, Fellow, Center for Great Plains Studies, 2005
- Awarded, NACTA Graduate Student Teaching Award, 2002
- Awarded, Certificate of Recognition for Contributions to Students, UNL TCPA, 2002
- Nominee, Folsom Distinguished Doctoral Dissertation Award, 2004
- Nominee, Holling Family Teaching Award, 2001
- Awarded, Inst. of Behavioral and Applied Management, Best Student Paper, 1998
- Awarded, Student of the Year, American Planning Association, Nebr. Chapter, 1988
- President, Student Planning Association of Nebraska, 1988
- Honor Societies: Tau Sigma Delta, Golden Key, and Alpha Zeta

Professional Experience

Geoscientist 2014-Present, Univ. of Nebraska-Lincoln, School of Natural Resources
Associate Geoscientist 2008-2014, Univ. of Nebraska-Lincoln, School of Natural Resources

Assistant Geoscientist 2003-2008, Univ. of Nebraska-Lincoln, School of Natural Resources
Teaching Coordinator 2010-2016, Univ. of Nebraska-Lincoln, School of Natural Resources
Graduate Committee Chair 2012 Univ. of Nebraska-Lincoln, School of Natural Resources
Human Dimensions Specialization Leader 2009-Present, Univ. of Nebraska-Lincoln, School of Natural Resources

Refereed Journal Publications

- Kennedy, S.M., & Burbach, M.E. (accepted). Rancher Attitudes Toward Managing for Vegetation and Landscape Heterogeneity on Rangelands. *Sustainable Agriculture Research*,
- Burbach, M.E., Eaton, W., Quimby, B., Babbitt, C., & Delozier, J. (accepted). Assessing an integrated approach to large-scale common pool water resource management: A case study of Nebraska's Platte River Basin. *Ecology & Society*, .
- Zhang, L., Hu, Q., Hayes, M., Burbach, M., Messer, T., Zhou, Y., & Tang, Z. (2022). Evaluating Nebraska's local comprehensive plans to achieve the national wetland conservation efforts of in the USA. *Ecosystem Health and Sustainability*, 8, 1, 2070550.
<https://doi.org/10.1080/20964129.2022.2070550>
- Eaton, W.M., Brasier, K.J., Whitley, H., Bausch, J.C., Delozier, J.L. Burbach, M.E., . . . Williams, C. (2022). Farmer perspectives on collaboration: Evidence from agricultural landscapes in Arizona, Nebraska, and Pennsylvania. *Journal of Rural Studies*, 94, 1-12.
- Ahamad, M., Burbach, M.E., & Tanin, F. (2021). Relationships among toilet sharing, water source locations, and handwashing places without observed soap: A cross-sectional study of the richest households in Bangladesh. *Environmental Health Insights*, 15, 1-6.
- Eaton, W.M., Brasier, K.J., Burbach, M.E., Whitmer, W., Engle, E.W., Burnham, M., . . . Weigle, J. (2021). A conceptual framework for social, behavioral, and environmental change through stakeholder engagement in water resource management. *Society & Natural Resources*, 34, 1111-1132. <https://doi.org/10.1080/08941920.2021.1936717>
- De Figueiredo Silva, F. Perrin, R.K., Fulginiti, L.E., & Burbach, M.E. (2021). Does engagement improve groundwater management? *Water Economics and Policy*, 7(2), 2150008.
<https://dx.doi.org/10.1142/S2382624X21500089>
- Delozier, J., & Burbach, M.E. (2021). Boundary spanning: Its role in trust development between stakeholders in integrated water resource management. *Current Research in Environmental Sustainability*, 3, 100027. <https://doi.org/10.1016/j.crsust.2021.100027>
- Smith, K.H., Burbach, M.E., Hayes, M.J., Guinan, P.E., Tyre, A.J., Fuchs, B., and Haigh, T. (2021). Whose ground truth is it? Harvesting lessons from Missouri's 2018 bumper crop of drought observations. *Weather, Climate, and Society*, 13, 227-244.
<https://doi.org/10.1175/WCAS-D-19-0140.1>
- Haigh, T., Hayes, M., Smyth, J., Prokopy, L., Francis, C., & Burbach, M. (2021). Ranchers' use of drought contingency plans in protective action decision making. *Rangeland Ecology & Management*, 74, 50-62. <https://doi.org/10.1016/j.rama.2020.09.007>
- Kennedy, S.M., & Burbach, M.E. (2020). Great Plains ranchers managing for vegetation heterogeneity: A multiple case study. *Great Plains Research*, 30(2), 137-148.
<https://doi.org/10.1353/gpr.2020.0016>
- Miller, M., & Burbach, M.E. (2020). Cigarette butt disposal behavior: A case study of a public beach on Jekyll Island, Georgia, USA. *Environment and Natural Resources Research*, 10(3), 27-42. <https://doi.org/10.5539/enrr.v10n3p27>
- Haigh, T.R., Otkin, J.A., Mucia, A., Hayes, M., & Burbach, M. E. (2019). Drought early warning and the timing of range managers' drought response. *Advances in Meteorology*, 2019, Article 9461513. <https://doi.org/10.1155/2019/9461513>

- Burbach, M. E., Floress, K., & Prokopy, L. (2019). Catalyzing change: Social science for water resource management. *Journal of Contemporary Water Research & Education*, 167, 1-5. <https://doi.org/10.1111/j.1936-704X.2019.03307.x>
- Burbach, M. E., & Reimers-Hild, C. (2019). Developing water leaders as catalysts for change: The Nebraska Water Leaders Academy. *Journal of Contemporary Water Research & Education*, 167, 6-22. <https://doi.org/10.1111/j.1936-704X.2019.03308.x>
- Haigh, T.R., Schacht, W., Knutson, C.L., Smart, A.J., Volesky, J., Allen, C., Hayes, M., & Burbach, M. (2019). Socioecological determinants of drought impacts and coping strategies for ranching operations in the Great Plains. *Rangeland Ecology & Management*, 72, 561-571. <https://doi.org/10.1016/j.rama.2019.01.002>
- Czap, N.V., Czap, H.J., Banerjee, S., & Burbach, M. (2019). Encouraging farmers' participation in the Conservation Stewardship Program: A field experiment. *Ecological Economics*, 161, 130-143. <https://doi.org/10.1016/j.ecolecon.2019.03.010>
- Sliwinski, M., Burbach, M.E., Powell, L., & Schacht, W. (2018). Factors influencing ranchers' intentions to manage for vegetation heterogeneity and promote cross-boundary management in the northern Great Plains. *Ecology & Society*, 23(4):45. <https://doi.org/10.5751/es-10660-230445>
- Sliwinski, M., Burbach, M.E., Powell, L., & Schacht, W. (2018). Ranchers' perceptions of vegetation heterogeneity in the Northern Great Plains. *Great Plains Research*, 28, 185-197. <https://doi.org/10.1353/gpr.2018.0029>
- Czap, N.V., Czap, H.J., Khachatryan, M., Burbach, M.E., & Lynne, G.D. (2018). Experiments on empathy conservation: Implications for environmental policy. *Journal of Behavioral Economics for Policy*, 2(2), 71-77.
- Czap, H.J., Czap, N.V., Burbach, M.E., & Lynne, G.D. (2018). Does might make right? - An experimental investigation on the impact of who owns the property rights. *Ecological Economics*, 150, 229-240. <https://doi.org/10.1016/j.ecolecon.2018.03.007>
- Czap, N.V., Czap, H.J., Khachatryan, M., & Burbach, M.E. (2018). Comparing female and male response to financial incentives and empathy nudging in an environmental context. *Review of Behavioral Economics*, 5(1), 61-84. <https://doi.org/10.1561/105.00000079>
- Floress, K., Reimer, A., Thompson, A., Burbach, M., Knutson, C., Prokopy, L., Ribaud, M., Ulrich-Schad, J. (2018). Measuring farmer conservation behaviors: Challenges and best practices. *Land Use Policy*, 70, 414-418. <https://doi.org/10.1016/j.landusepol.2017.11.030>
- Lynne, G.D., Czap, N.V., Czap, H.J., & Burbach, M.E. (2016). A theoretical foundation for empathy conservation: Toward avoiding the tragedy of the commons. *Review of Behavioral Economics*, 3, 243-279. <https://doi.org/10.1561/105.00000052>
- Czap, H.J., Czap, N.V., Lynne, G.D., & Burbach, M.E. (2016). Farm Bill 2014: An experimental investigation of conservation compliance. *Journal of Sustainable Development*, 9(3), 23-38. <https://doi.org/10.5539/jsd.v9n3p23>
- Kennedy, S.M., Burbach, M.E., & Sliwinski, M. (2016). Sustainable grassland management: An exploratory study of progressive ranchers in Nebraska. *Sustainable Agriculture Research*, 5(2), 103-113. <https://doi.org/10.5539/sar.v5n2p103>
- Day, F.C., & Burbach, M.E. (2015). An exploration of the moderating effect of work motivation on the relationship between utilization of virtual team effectiveness attributes and work satisfaction: A mixed methods study. *Creighton Journal of Integrated Leadership*, 1, 86-106. <http://dx.doi.org/10.17062:CJIL.v1i2.25>
- Czap, N.V., Czap, H.J., Lynne, G.D., & Burbach, M.E. (2015). Walk in my shoes: Nudging for empathy conservation. *Ecological Economics*, 118, 147-158. <http://dx.doi.org/10.1016/j.ecolecon.2015.07.010>

- Oden, A., Brandle, J.R., Burbach, M.E., Brown, M., & Quinn, J.E. (2015). Variation in avian vocalizations during the non-breeding season in response to traffic noise. *Ethology*, 121, 472-479. <http://dx.doi.org/10.1111/eth.12360>
- Babbitt, C.H., Burbach, M.E., & Pennisi, L. (2015). A mixed methods approach to assessing success in transitioning water management institutions: A case study of the Platte River Basin, Nebraska. *Ecology & Society*, 20(1), 54. <http://dx.doi.org/10.5751/ES-07367-200154>
- Burbach, M.E., Floress, K., & Kaufman, E.K. (2015). Are water-related leadership development programs designed to be effective? An exploratory study. *Journal of Leadership Education*, 14(1), 107-123. <http://dx.doi.org/10.12806/V14/I1/R7>
- Czap, N.V., Czap, H.J., Burbach, M.E., & Lynne, G.D. (2014). Gender in environmental context: An effect of property rights, fines, and empathy nudging. *International Journal of Economics and Finance*, 6(7), 11-23. <http://dx.doi.org/10.5539/ijef.v6n7p11>
- Moncure, S.L., & Burbach, M.E. (2013). Social reinforcement of environmentally conscious consumer behavior at a grocery store cooperative. *Journal of Management and Sustainability*, 13(4), 14-24. <http://dx.doi.org/10.5539/jms.v3n4p14>
- Czap, N.V., Czap, H.J., Khachaturyan, M., Burbach, M.E., & Lynne, G.D. (2013). Smiley or Frowney: The effect of emotions and empathy framing in a downstream water pollution game. *International Journal of Economics and Finance*, 5(3), 9-23. <http://dx.doi.org/10.5539/ijef.v5n3p9>
- Burbach, M.E., & Day, F.C. (2012). Does organization sector matter in leading teleworker teams? A comparative case study. *International Journal of Business Information and Technology*, 1(1), 29-42.
- Burbach, M.E., Pennisi, L., West, C.D., & Zeigler-Chong, S. (2012). The impact of personal interpretation in developing a connection to nature in park visitors. *LARNet: The Cyber Journal of Applied Leisure and Recreation Research*, 15(4), 13-30.
- Czap, N.V., Czap, H.J., Khachaturyan, M., Lynne, G.D., & Burbach, M.E. (2012). Walking in the shoes of others: Experimental testing of dual-interest and empathy in environmental choice. *Journal of Socio-Economics*, 41, 642-653. <http://dx.doi.org/10.1016/j.socec.2012.05.005>
- Burbach, M.E., Matkin, G.S., Quinn, C.E., & Searle, T.P. (2012). The impact of preparing agriculture faculty to influence student critical thinking disposition. *Journal of Agricultural Education*, 53(2), 1-14. <http://dx.doi.org/10.5032/jae.2012.02001>
- Flores, K.L., Matkin, G.S., Burbach, M.E., Quinn, C.E., & Harding, H. (2012). Deficient critical thinking skills among college graduates: Implications for leadership. *Educational Philosophy and Theory*, 44, 212-230. <http://dx.doi.org/10.1111/j.1469-5812.2010.00672.x>
- Gambrell, K.M., Matkin, G.S., & Burbach, M.E. (2011). Cultivating leadership: The need for renovating models to higher epistemic cognition. *Journal of Leadership and Organizational Studies*, 18, 308-319. <http://dx.doi.org/10.1177/1548051811404895>
- Brown, M.B., Burbach, M.E., Dinan, J., Held, R.J., Johnson, R.J., Jorgensen, J.G., Lackey, J., Marcus, J.F., Matkin, G.S., & Thody, C.M. (2011). Nebraska's Tern and Plover Conservation Partnership - A model for sustainable conservation of threatened and endangered species. *Wader Study Group Bulletin*, 118(1), 22-25.
- Day, F.C., & Burbach, M.E. (2011). Telework considerations for public managers with strategies for increasing utilization. *Communications of the IBIMA*, 2011, 1-18. DOI: 10.5171/2011.880212. <http://dx.doi.org/10.5171/2011.880212>
- Tang, Z., Burbach, M.E., & Wei, T. (2010). Bridging the gap between environmental planning education and practice. *International Journal of Sustainable Development & Planning*, 5, 430-442. <http://dx.doi.org/10.2495/SDP-V5-N4-430-442>

- Quinn, C.E., & Burbach, M.E. (2010). A test of personal characteristics that influence farmer's pro-environmental behaviors. *Great Plains Research*, 20, 193-204.
- Burbach, M.E., Matkin, G.S., Gambrell, K.M., & Harding, H.E. (2010). The impact of preparing faculty in the effective use of student teams. *College Student Journal*, 44, 752-761.
- Albano, J., Comfort, S.D., Zlotnik, V., Halihan, T., Burbach, M.E., Chokejaroenrat, C., Onanong, S., & Clayton, W. (2010). In situ chemical oxidation of RDX-contaminated ground water with permanganate at the Nebraska Ordnance Plant. *Ground Water Monitoring & Remediation*, 30(3), 96-106. <http://dx.doi.org/10.1111/j.1745-6592.2010.01295.x>
- Phipps, K.A. & Burbach, M.E. (2010). Strategic leadership in the nonprofit sector: Opportunities for research. *Journal of Behavioral and Applied Management*, 11, 137-154.
- Quinn, C., Burbach, M.E. Matkin, G.S., & Flores, K. (2009). Critical thinking for natural resource, agricultural, and environmental ethics education. *Journal of Natural Resources and Life Sciences Education*, 38, 221-227. <http://dx.doi.org/10.4195/jnrise.2009.0028>
- Korus, J.T., & Burbach, M.E. (2009). Analysis of aquifer depletion criteria with implications for groundwater management in Nebraska. *Great Plains Research*, 19, 187-200.
- Burbach, M.E. (2008). Emotional intelligence in professional and personal settings: An experiential learning exercise. *Journal of the Academy of Business Education*, 9, 98-110.
- Chen, X., Burbach, M., & Cheng, C. (2008). Electrical and hydraulic vertical variability in channel sediments and its effects on streamflow depletion due to groundwater extraction. *Journal of Hydrology*, 352, 250-266. <http://dx.doi.org/10.1016/j.jhydrol.2008.01.004>
- Quinn, C.E., & Burbach, M.E. (2008). Personal characteristics preceding pro-environmental behaviors that improve surface water quality. *Great Plains Research*, 18(1), 103-114.
- Zlotnik, V.A., Burbach, M.E., Swinehart, J.B., Bennett, D., Fritz, S.C., Loope, D.B., & Olaguera, F. (2007). Direct push methods for aquifer characterization in dune-lake environments: The Nebraska Sand Hills. *Environmental and Engineering Geosciences*, 13, 205-216. <http://dx.doi.org/10.2113/gsegeosci.13.3.205>
- Burbach, M.E., & Joeckel, R.M. (2006). A delicate balance: Rainfall and groundwater in Nebraska during the 2000-2005 drought. *Great Plains Research*, 16(1), 5-16.
- Barbuto, J.E., Jr., & Burbach, M.E. (2006). The emotional intelligence of transformational leaders: A field study. *Journal of Social Psychology*, 146, 51-64. <http://dx.doi.org/10.3200/SOCP.146.1.51-64>
- Burbach, M.E., Matkin, G.S., & Fritz, S.M. (2004). Teaching critical thinking in an introductory leadership course utilizing active learning strategies: A confirmatory study. *College Student Journal*, 38(3), 482-493.
- Spalding, R.F., Exner, M.E., Snow, D.D., Cassida, D.A., Burbach, M.E., & Monson, S.J. (2003). Herbicides in ground water beneath Nebraska's Management Systems Evaluation Area. *Journal of Environmental Quality*, 32, 92-99. <https://doi.org/10.2134/jeq2003.9200>
- Burbach, M.E. (2002). Teaching tips for graduate students in agriculture. *NACTA Journal*, 46(4), 54.
- Spalding, R.F., U, Z.K., Hyun, S.W., Martin, G.E., Burbach, M.E., Yang, S.I.I., Kim, M., Exner, M.E., & Song, S.J. (2001). Source identification of nitrate on Cheju Island, South Korea. *Nutrient Cycling in Agroecosystems*, 61(3), 237-246. <https://doi.org/10.1007/s10705-004-1476-4>
- Spalding, R.F., Watts, D.G., Schepers, J.S., Burbach, M.E., Exner, M.E., Poreda, R.J., & Martin, G.E. (2001). Controlling nitrate leaching in irrigated agriculture. *Journal of Environmental Quality*, 30(4), 1184-1194. <http://dx.doi.org/10.2134/jeq2001.3041184x>
- Zlotnik, V.A., Spalding, R.F., Exner, M.E., & Burbach, M.E. (1995). Well Sampling for agrichemicals in high capacity systems. *Journal of Soil and Water Conservation*, 50(1), 95-101.

- Spalding, R.F., Burbach, M.E., Exner, M.E., Alexander, D.R. & Para-Vicary, L. (1994). Sprinkler irrigation: A VOC remediation alternative. *Technology: Journal of the Franklin Institute*, 331A, 231-241.
- Spalding, R.F., Snow, D.D., Cassada, D.A., & Burbach, M.E. (1994). Study of pesticide occurrence in two closely spaced lakes in northeastern Nebraska. *Journal of Environmental Quality*, 23(3), 571-578.
<http://dx.doi.org/10.2134/jeq1994.00472425002300030024x>
- Zlotnik, V.A., Spalding, R.F., Exner, M.E., & Burbach, M.E. (1993). Sampling of non-point source contamination in high-capacity wells. *Water Science and Technology*, 28(3-5), 409-413.
- Exner, M.E., Burbach, M.E., Watts, D.G., Shearman, R.C., & Spalding, R.F. (1991). Deep nitrate movement in the unsaturated zone of a simulated urban lawn. *Journal of Environmental Quality*, 20(3), 658-662.
<http://dx.doi.org/10.2134/jeq1991.00472425002000030025x>
- Spalding, R.F., Burbach, M.E., & Exner, M.E. (1989). Pesticides in Nebraska's ground water. *Ground Water Monitoring Review*, 9(4), 126-133. <http://dx.doi.org/10.1111/j.1745-6592.1989.tb01021.x>
- Bauer, K.A., & Burbach, M.E. (1987). Community and regional planning class assists neighborhood associations. *Dimensions*, Spring, 2-4.

Books and Book Chapters

- Lackey, N.Q., Pennisi, L., & Burbach, M. (submitted). Tour guides as transformational leaders. In K. S. Bricker & J. Kariithi (Eds.), *Case studies and research in ecotourism* (pp. XX-XX). Apple Academic Press.
- Jedd, T., Schutz, A., & Burbach, M. (2022). Polycentric governance in Nebraska, U.S., for ground and surface Water. In J. Rouillard, C. M., Babbitt, E. Challies, & J. D. Rinaudo (Eds.), *Water resources allocation and agriculture: Transitioning from open to regulated access* (pp. 215-226). IWA Publishing.
- Whitmer, W., Clark, L., Altherr, H., Bonilla Anariba, S., Brasier, K., Burbach, M., . . . Watson, J. (2022). Stakeholder engagement in natural resources: A guide to concepts, tools, and strategies. Penn State University. <https://sites.psu.edu/engagementguide/>
- Oden, A., Brandle, J.R., Burbach, M.E., Bomberger Brown, M., Gerber, J.E. & Quinn, J.E. (2020). Soundscapes and Anthromes: A review of proximate effects of traffic noise on avian vocalization and communication. In Goldstein, M. & D. DellaSala (Eds.), *Encyclopedia of world biomes* (pp. 203-208). Amsterdam: Elsevier.
<https://doi.org/10.1016/B978-0-12-409548-9.11999-2>
- Delozier, J., & Burbach, M.E. (2020). The need for boundary spanners in integrated water resource management. In Goldstein, M. & D. DellaSala (Eds.), *Encyclopedia of world biomes* (pp. 351-357). Amsterdam: Elsevier. <https://doi.org/10.1016/B978-0-12-409548-9.12062-7>
- Burbach, M.E., Young, A.R., & Korus, J.T. (2014). The potential impacts of projected changes in climate on groundwater resources in Nebraska. In D.A. Wilhite, R.J. Oglesby, C.M. Rowe, & D.J. Bathke (Eds.), *Understanding and assessing climate change: Implications for Nebraska* (p. 40). Lincoln, NE: University of Nebraska-Lincoln.
- Weaver, K.L., Burbach, M.E., & Tang, Z. (2012). The community watershed planning approach to local environmental land use management: Its history and emerging approaches. In Aubrecht, C., Freire, S., & Steinnocher, K. (Eds.), *Land use: Planning, regulations, and environment* (pp. 35-51). New York: NOVA Science.
- Lunde, J. Povlacs, & Burbach, M.E. (2005). Responding with empathy. In S.M. Fritz, J. Povlacs Lunde, & E.A. Banset (Eds.), *Interpersonal skills for leadership* (pp. 260-284). Upper Saddle River, NJ: Pearson Prentice Hall.

Spalding, R.F., Exner, M.E., & Burbach, M.E. (1991). Economical monitoring procedure for assessing agrochemical nonpoint source loading in unconsolidated aquifers. In Nash, R.G., & Leslie, A.R. (Eds.), *Groundwater residue sampling design* (pp. 255-261). Washington, D. C.: American Chemical Society. <https://doi.org/10.1021/bk-1991-0465.ch015>

Editor - Journal, Special Issue

Journal of Contemporary Water Research & Education, 2019, Volume 167. Catalyzing Change: Social Science for Water Resources Management.

Editor - Conference Proceedings and Abstracts

Burbach, M.E., Joeckel, R.M., & Flowerday, C.A. (Eds.). (2006). *51st Annual Midwest Ground Water Conference, Program with Abstracts*. November 7 - 9, 2006, Lincoln, Nebraska. School of Natural Resources, University of Nebraska-Lincoln.

Refereed Conference Proceedings and Abstracts

A Mixed-Methods Exploration of Cooperative Extension as a Boundary Organization to Enhance Collaborative Natural Resource Management. 2022 IASNR Conference, San Juan, Costa Rica, June 27, 2022.

Jedd, T., Sixt, G., Schutz, A., & Burbach, M. (2022, May). Natural Resources District Model for Groundwater Governance: Nebraska, U.S. Case Study. International Conference: "Groundwater, Key to the Sustainable Development Goals", Paris, France.

Burbach, M., Kennedy, S., Eaton, W., & Brasier, K. (2022, June). *A Mixed-methods Exploration of Cooperative Extension as a Boundary Organization to Enhance Collaborative Natural Resource Management*. 2022 IASNR Conference, San José, Costa Rica.

Burbach, M., Eaton, W., Brasier, K., & Delozier, J. (2021, June). *Foundational conditions enabling collaborative resource management in two geographically and regulatorily different watersheds*. 2021 Virtual IASNR Conference.

Chaudhary, A.K., Eaton, W., Assan, E., Burbach, M., Brasier, K., & Burkhart-Kriesel, C. (2021, June). *Using Understanding of Stakeholders' Social Indicators to Promote Stakeholder Engagement*. 2021 Virtual IASNR Conference.

Delozier, J., Burbach, M., & Eaton, W. (2021, June). *The Emergence of Boundary Spanners in Collaborative Policymaking: A Case Study*. 2021 Virtual IASNR Conference.

Eaton, E., Brasier, K., Burbach, M., Wutich, A., Quimby, B., Chaudhary, A., Whitley, H., Santangelo, N. (2021, June). *Social science on and for stakeholder engagement: Navigating tensions across practical and scholarly aims*. 2021 Virtual IASNR Conference.

Delozier, J., & Burbach, M. (2020, November). *Producer attitudes toward stakeholder engagement: Opportunities for and constraints to participation in water and land management and policy development*. AWRA Annual Conference, Virtual, November 10, 2020.

Fowler, L., Burbach, M., Brasier, K., Williams, C., Eaton, W. (2020, November). *Water for Agriculture: Engaging with stakeholders to find solutions*. AWRA Annual Conference, Virtual, November 10, 2020.

Whitley, H., Eaton, W., Brasier, K., Burbach, M., (2020, October). *Developing and applying a conceptual framework to identify the 'participatory culture' of farmer stakeholders*. 2020 Rural Sociology Graduate Student Conference.

Burbach, M., Eaton, W., Babbitt, C., Quimby, B., Brasier, K., & Delozier, J. (2020, July). *An Assessment of local, integrated water resource management in the Platte River Basin, Nebraska, USA*. 26th International Symposium on Society and Resource Management, Virtual.

Chaudhary, A., Eaton, W., Brasier, K., Burbach, M., Engle, E., & Whitley, H. (2019, June). *Exploring Social Network Analysis as a Resource for Supporting Community-Led*

- Stakeholder Engagement to Manage Water and Agricultural Challenges in Rural Communities in Nebraska and Pennsylvania.* U.S. 25th International Symposium on Society and Resource Management, Oshkosh, WI.
- Eaton, W., Brasier, K., Burbach, M., Engle, E., & Whitley, H. (2019, June). *A Conceptual Model for Assessing Whether and How Community-led Engagement Builds Community Capacity to Address Complex Environmental Challenges in Agricultural Landscapes.* 25th International Symposium on Society and Resource Management, Oshkosh, WI.
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- Burbach, M.E., & R.F. Spalding. 1998. *Agrichemicals Study within the Waverly Ground Water Reservoir Area*. Water Center/Environmental Programs, University of Nebraska-Lincoln, 36 pp.
- Burbach, M.E., D.D. Snow, & R.F. Spalding. 1998. Livestock Waste Control Facilities Investigation - Quality Assurance Project Plan. Addendum to a Study Sponsored by the Nebraska Department of Environmental Quality, *Livestock Waste Control Facilities Investigation*, Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 13 pp.
- Burbach, M.E., D.D. Snow, & R.F. Spalding. 1998. Quality Assurance Project Plan. Addendum to a Proposal Submitted to the Nebraska Department of Agriculture, *Prevention of Atrazine and Degradate Leaching in Ridge Plant Irrigated Corn*, Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 27 pp.
- Burbach, M.E. 1997. *Field Investigations Health and Safety Plan*. Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 27 pp.

- Burbach, M.E. 1997. *SOP for Ground-Water Monitoring Well Installation*. Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 12 pp.
- Burbach, M.E. 1997. *SOP for Ground-Water Sampling*. Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 10 pp.
- Burbach, M.E. 1997. *SOP for Soil Gas Sampling*. Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 7 pp.
- Burbach, M.E. 1997. *SOP for Soil Sampling (Vadose Zone and Aquifer Material)*. Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 27 pp.
- Burbach, M.E. 1997. *Water Quality Workshop - Field Topics and Environmental Sampling Field Demonstration*. Unit of Instruction, Agricultural Leadership, Education, and Communication, University of Nebraska-Lincoln.
- Burbach, M.E. 1996. *Ground Water Monitoring - Field Topics*. A Study Guide, Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 4 pp.
- Spalding, R.F., M.E. Burbach, M.E. Exner, D.R. Alexander & L. Para-Vicary. 1995. Sprinkler Irrigation: A Volatile Organic Compound Remediation Alternative. *Research Briefs*, v. 3 no. 1, Water Center/Environmental Programs, University of Nebraska-Lincoln, 2 pp.
- Burbach, M.E. 1995. *SOP for Ground Water Sampling with the Grundfos Rediflo2® Pump (Modified for DowElanco)*. Water Sciences Laboratory, Water Center/Environmental Programs, University of Nebraska-Lincoln, 8 pp.
- Burbach, M.E., & R.F. Spalding. 1994. Investigation and Evaluation of Agrichemical Transport Near Waverly, Nebraska. *Research Briefs*, v. 2 no. 1, Water Center/Environmental Programs, University of Nebraska-Lincoln, 2 pp.
- Spalding, R.F., & M.E. Burbach. 1990. Chemigation Backflow. *Burlington Northern Foundation Water Quality Project: Final Report*. Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln, August, pp. 28-31.

Funded Grants and Contracts (2003-Present)

Principal Investigator

- Graduate Student Support Grant*. Funded by Daugherty Water for Food Global Institute, \$17,000, 7/1/2020-6/30/2021.
- Nebraska Water Leaders Academy (Years 11-13)*. Funded by the Nebraska Environmental Trust, \$118,536, 7/1/2020-6/30/2023.
- The Influence of the Nebraska Water Leaders Academy on Community Leadership Capacity*. Funded by the Rural Futures Institute, April 2018, \$79,603.
- Nebraska Water Leaders Academy (Years 8-10)*. Funded by the Nebraska Environmental Trust, April 2017, \$91,144.
- National Ground-water Monitoring Network Provider*, Funded by the US Geological Survey, July, 2017, \$94,394.
- NC1190 - Catalysts for Water Resources Protection and Restoration: Applied Social Science Research*, Funded by the University of Nebraska-Lincoln, ARD Hatch Multistate, October, 2016, \$49,680.
- University of Nebraska-Lincoln, Conservation & Survey Division participation as a data provider in the National Ground-water Monitoring Network*, Funded by the US Geological Survey, August, 2016, \$42,387.
- Nebraska Water Leaders Academy (Years 5-7)*. Funded by the Nebraska Environmental Trust, April 2015, \$81,716.
- Developing, Testing, Implementing, and Sharing a First-year College Student Retention Instrument (Year 2)*, Funded by the Kelly Fund, UNL Foundation, April 2015, \$12,451.

Developing, Testing, Implementing, and Sharing a First-year College Student Retention Instrument (Year 1), Funded by the Kelly Fund, UNL Foundation, March 2014, \$12,451.

Nebraska Water Leaders Academy (Years 2-4). Funded by the Nebraska Environmental Trust, April 2012, \$64,313.

Equipment for Upgrading a Real-Time Groundwater-Level Monitoring Network. Funded by the UNL Agricultural Research Division, September 2012, \$12,184.

Nebraska Water Leaders Academy (Year 1). Funded by the Nebraska State Irrigation Association, February 2011, \$21,322.

Investigation of the Source of Nitrate-Nitrogen in Northwest Kearney County, Nebraska. Funded by the Tri-Basing NRD, March 2009, \$4,212.

Max McGraw Foundation Teaching Grant. Funded by the Max McGraw Foundation, January 2008, \$1,400.

Ensuring Student Success: Increasing Faculty Capacity to Teach Team Building and Critical Thinking Skills. Funded by USDA-CSREES Higher Education Challenge, September 2007, \$139,067.

Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Program. Funded by USDA Risk Management Agency, October, 2005, \$403,293.

Vadose Zone Sampling within the Tri-Basin NRD. Funded by the Tri-Basin Natural Resources District, February 2005, \$3,941.

Preliminary Hydrologic Investigation of the Groundwater Flow Regime in the Crescent Lake Wildlife Refuge. Funded by UNL Nebraska Research Initiative, Summer 2004, \$12,000.

Soil Coring in the Nebraska Sandhills. Funded by UNL Sponsored Programs, May 2004, \$4,000.

Vadose Zone Sampling within the Upper Niobrara-White NRD. Funded by Upper Niobrara White NRD, April 2003, \$5,295.

Vadose Zone Sampling within the Upper Tri-Basin NRD. Funded by the Tri-Basin Natural Resources District, February 2002, \$2,105.

Vadose Zone Sampling within the Upper Niobrara-White NRD. Funded by the Upper Niobrara-White Natural Resources District, February 2002, \$14,823.

Platte Valley Vadose Zone Agrichemical Study. Funded by the Lower Platte North Natural Resources District, March 2001, \$3,325.

Todd and Platte Valley Vadose Zone Agrichemical Study. Funded by the Lower Platte North Natural Resources District, January 2000, \$5,035.

Evaluation and Assessment of Agrichemical Contaminants in the Creighton, NE Area and Management Assistance to the Lewis and Clark NRD. Funded by the Lewis and Clark Natural Resources District, February 13, 1997, \$77,150.

Aquifer Response Test and Estimation of Agrichemical Loading in the Waverly Ground Water Reservoir Area. Funded by the Lower Platte Natural Resources District, July 1995, \$35,375.

Investigation and Evaluation of Agrichemical Transport Near Waverly, Nebraska. Funded by the Lower Platte Natural Resources District, November 1991, \$30,000.

Management Alternatives: South Platte NRD and the City of Sidney, Nebraska. Funded by the South Platte Natural Resources District, Sidney, NE, May 1987, \$12,000.

Co-Principal Investigator

Organizing and analyzing Testing Ag Performance Solutions program data, quantifying productivity and GHG outcomes for corn, grain sorghum, and cotton. Funded by the Irrigation Innovation Consortium. \$111,363, 7/1/2022 - 12/31/2023.

UNL Proposal to Replace Monitoring Equipment at Eight Sites. Funded by the US Geological Survey, \$20,315, 11/1/2021-10/31/2022.

UNL Proposal to Support Persistent Data Services and Video Log 15 Antiquated Wells. Funded by the US Geological Survey, \$32,958, 7/15/2021-7/14/2022.

Testing Ag Performance Solutions (TAPS). Funded by Nebraska Corn Board, \$103,858, 7/1/21 - 6/30/2024.

Rancher Preferences for Conservation Programs in Nebraska's Grasslands. Funded by USDA-NIFA-SARE, September 2020, \$7,926, 9/1/2020-8/31/2021.

UNL proposal to support persistent data services and install a new observation well. Funded by the US Geological Survey, \$48,756, 7/15/2020-7/14/2021.

UNL Proposal to Expand Web Services in Order to Add up to 5,000 wells to the NGWMN, Funded by the US Geological Survey, \$37,277, 7/15/2019-7/14/2020.

National Ground-water Monitoring Network Provider, Funded by the US Geological Survey, \$11,181, 5/1/2018-4/30/2019.

Securing water for and from agriculture through effective community and stakeholder engagement. Funded by USDA-NIFA-AFRI, 7/1/2017-6/31/2021, \$1,039,733.

Nudging for empathy conservation: A field experiment on the USDA Conservation Stewardship Program, USDA-CBEAR, March 2016, \$80,258.

Collaborative Conservation in the Great Plains: Opportunities and Barriers for Cross-Property Private-Lands Management, Funded by USDA-NIFA-SARE, September 2014, \$9,996.

Integrating Interactive Learning Technology in the Classroom, Funded by the UNL College of Agricultural Science and Natural Resources, February 2014, \$1,700.

2012 Assessment of Voluntary Public Access and Habitat Incentive Program. Funded by the Nebraska Game & Parks Commission, January 2013, \$9,547.

Hunter Study on OFW Effectiveness in Nebraska. Funded by the Nebraska Game & Parks Commission, August 2012, \$59,622.

Scenery as a Natural Resource. Funded by UNL Office of Research, May, 2012, \$3,600.

Center for Agricultural and Food Industrial Organization - Policy Research Group. Funded by USDA-NIFA-PRC, April 2012, \$767,000.

Improvement of Grasslands for Beef Cattle Production, Bird Habitat, and Botanical Diversity. Funded by Univ. of Nebraska Foundation, Anna H. Elliot Fund, June 2011, \$60,000

Shallow Groundwater Nitrate Study. Funded by Nebraska Department of Environmental Quality, April 2011, \$14,705.

Multi-Scale Approaches to Natural, Economic, and Social Resilience and Adaptation at the Interface of Surface and Groundwater Through Trans-disciplinary Research Across Watersheds with Consideration for Climate Effects. Funded by IANR, 2010, \$15,000.

Research Leading Toward a Great Plains Environmental and Hydrologic Observatory. Funded by UNL Office of Research, July 2007, \$5,000.

Targeting Watershed Vulnerability and Behaviors to Adoption of Conservation Management Practices. Funded by USDA-CSREES Integrated Water Quality Program, October, 2006, \$570,000.

Aquifer Vertical Anisotropy & Streambed Conductance in Eastern Part of Central Nebraska, Part II. Funded by Upper Big Blue NRD, July, 2006, \$16,000.

Aquifer Vertical Anisotropy & Streambed Conductance in Eastern Part of Central Nebraska, Part I. Funded by Upper Big Blue NRD, September, 2005, \$14,760.

Grant Funding: Approximately \$4,000,000

Teaching and Course Development

Teaching Coordinator, School of Natural Resources (2010-Present)

Course Development/Currently Teaching

- NRES 409 - Human Dimensions of Natural Resources
- NRES 829 - Human Dimensions of Natural Resource Management
- NRES 428/828 - Leadership in Public Organizations
- NRES 881 - Environmental Conflict Management (co-teach)
- NRES 891 - Human Dimensions Seminar
- NRES 399 - Independent Research

NRES 496 - Independent Study

NRES 896 - Independent Study

Previously Developed & Taught

ALEC 904 - Teamwork Seminar

NRES 898 - Sustainability Leadership Seminar

NRES 898 - Academic Publishing

Taught

ALEC 102 - Interpersonal Skills for Leadership

NRES 103 - Intro to Agricultural and Natural Resource Systems (recitation)

NRES 323 - Natural Resources Policy

NRES 388 - Employment Seminar

Guest Lecturer

NRES 898 - Introduction to Interdisciplinary Science (2018)

NRES 208 - Applied Climate Science (2015-2017)

NRES 898 - Applied Ecology Seminar (2017)

NRES 898 - Environmental Conflict Management (2014)

NRES 898 - Adaptive Management (2011, 2013)

NRES 870 - Environmental Planning (2009)

NRES 413/813 - Environmental Leadership (2009)

ALEC 414/814 - Classic Figures in Leadership (2008)

ALEC 477/877 - Leadership and Motivation (2008)

ALEC 801 - Theoretical Foundations of Leadership (2007)

Dissertation and Thesis Committees, Chair (Current)

Undergraduate - 0

Masters of Science - 7

Doctor of Philosophy - 1

Dissertation and Thesis Committees, Member (Current)

Masters of Science - 4

Doctor of Philosophy - 6

MS Thesis

Joseph Hinnant - Exploring social dimensions of ecological restoration in the removal of two dams on the Elwha River (May 2022)

Sydney Abbott - *Exploring how education coordinators of the Natural Resources Districts in Nebraska utilize environmental education curricula*, Masters of Applied Science final project, non-thesis, (May 2022)

Kyle Martens - *Right side up: Payment for ecosystem services on privately owned grasslands in Nebraska*. (August, 2021)

Dakota Staggs - *Exploring how graduates of the Nebraska Water Leaders Academy influence community capitals: Two case studies*. (May, 2020)

Ann Briggs. *Using the elaboration likelihood model as a method to teach science communication*. (May, 2020)

Jodi Delozier - *Boundary spanners and trust development between stakeholders in integrated water resource management: A mixed methods study*. (August, 2018)

Maranda Miller - *Understanding cigarette butt littering behavior on public beaches: A case study of Jekyll Island, Georgia* (August, 2017)

Logan Lamb - *College and university sustainability officers' experiences with green office programs: A qualitative investigation*. (December, 2016)

Erin Kubicek - *An investigation into factors influencing attitude toward a wildlife corridor*. (August, 2016)

Bradley Behne - *Industrial ecology analysis of the potential for an eastern Nebraska industrial symbiosis network (ENISN): A comparative study.* (August, 2016)
JoLeisa S. Cramer - *Civic capacity and integrative public leadership: A case study of the Nebraska Water Leaders Academy.* (May, 2015)
Jessica Engelbart - *Public attitudes on wind energy: A review of the literature and popular news sources.* (Non-Thesis project) (December, 2015)
Shari Kunert - *The impact of place attachment on land succession of Nebraska agriculturists.* (August, 2012)
Chelsea D. West - *Connection to nature in park visitors: A look at structured versus unstructured recreation activities.* (May, 2010)
Amir Vafa - *The effect of regulation on household solid waste management in the United States and Germany: A comparative study.* (December, 2009)
Courtney E. Quinn - *Personal characteristics preceding pro-environmental behaviors that improve surface water quality.* (May, 2008)

PhD Dissertation

Jodi Delozier - *Bridging boundaries in stakeholder engagement* (May 2022)
Tonya R. Haigh - *Rangeland management during drought: Assessing social-ecological and cognitive indicators of ranchers' adaptive capacity* (December 2019)
Kelly Helm Smith - *Drought impacts: Detecting deviation from expectation across space and time.* (December 2019)
Stephanie M. Kennedy - *Managing for habitat heterogeneity on rangelands: An exploration of rancher attitudes.* (December, 2018).
Frederick C. Day - *Explaining the relationship between motivation, work satisfaction, and virtual team effectiveness: A mixed methods study.* (December, 2014).
Kenneth L. Weaver - *The leadership of sustainable cities: A comparative study of two Oregon communities.* (August, 2012)
Damien Westfield - *The effects of participation in community service through intercollegiate athletics on servant leadership behaviors* (August, 2010)

Previous Graduate Supervisory Committees

MS = 11

PhD = 19

Outreach Programs and Professional Presentations

Foundational conditions enabling collaborative resource management in two geographically and regulatorily different watersheds. VESPR Summer Retreat, August 15, 2022.

Exploring How Nebraska Water Leaders Can Leverage Their Civic Capacity to Influence Their Communities. Nebraska Water Leaders Academy, Scottsbluff, NE, July 14, 2022. **Invited**

Social Learning Outcomes Through Participation in Collaborative Processes? Evidence From Stakeholder Engagement Arizona, Nebraska and Pennsylvania. 2022 IASNR Conference, San Juan, Costa Rica, June 28, 2022. With W. Eaton, K. Brasier, S. Kennedy, S. Bonilla Anariba, & J. Delozier.

A Mixed-Methods Exploration of Cooperative Extension as a Boundary Organization to Enhance Collaborative Natural Resource Management. 2022 IASNR Conference, San Juan, Costa Rica, June 27, 2022.

Boundary Spanner: An Insider's Look at Enhancing Collaboration in Natural Resource Management. University Network for Collaborative Governance (UNCG) Conference 2022. With J. Delozier, Boise, ID, June 23, 2022.

Assessing an integrated approach to large-scale common pool water resource management: A case study of Nebraska's Platte River Basin. VESPR Social Science Committee Meeting, Virtual, June 9, 2022. **Invited**

Assessing an integrated approach to large-scale common pool water resource management: A case study of Nebraska's Platte River Basin. USDA Water for Ag Brownbag Series, Virtual, May 4, 2022. **Invited**

Personal Empowerment - Engaging Your Leadership Capacity. Indiana Watershed Leadership Academy, Virtual, May 4, 2022. **Invited**

Natural Resources District Model for Groundwater Governance: Nebraska, U.S. Case Study. With T. Jedd, G. Sixt, & A. Schutz. International Conference: "Groundwater, Key to the Sustainable Development Goals", Paris, France, May 18, 2022.

Best Practices and Outcomes in Collaborative Approaches to Water Management: Integrating Research and Practice. Nebraska Water Leaders Academy, Kearney, NE, March 24, 2022. **Invited**

Habitat Enhancement and Flow Augmentation Projects in the Central Platte and Republican Rivers. Nebraska Water Leaders Academy, Kearney, NE, March 24, 2022. **Invited**

Testing Ag Performance Solutions (TAPS) Evaluation Program. UNL TAPS - Learn, Launch, Interact, Kearney, NE, March 15,

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, January 20, 2022. **Invited**

The Emergence of Boundary Spanners in Collaborative Policymaking: A case study. USDA Water for Ag Brownbag Series, Virtual, March 9, 2022. **Invited**

Perspectives on collaboration among rural stakeholders in agricultural working landscapes: Evidence from Arizona, Nebraska, and Pennsylvania, USA. Water for Ag Brownbag Series, Virtual, March 9, 2022. **Invited**

Personal Empowerment. Nebraska State Irrigation Association, Nebraska Water Leaders Academy, November 18, 2021. **Invited**

Landscape Heterogeneity and Ecosystem Services - Importance and View from Ranchers' Perspectives. Nebraska Integrated Beef Systems Workshop, Lincoln, NE, October 19-20, 2021. **Invited**

Vision for an Ecologically Sound Platte River (VESPR) Retreat (Panelist), Platte River Social Science Project, Playa Lakes Joint Venture, Crane Trust, Wood River, NE, July 30, 2021.

Best Practices and Outcomes in Collaborative Approaches to Water Management: Integrating Research and Practice. Nebraska State Irrigation Association, Water Leaders Academy, August 12, 2021. **Invited**

The Nebraska Water Leaders Academy: Preparing Leaders for Emerging Wicked Water Management Challenge. SWCS International Annual Conference, July 27, 2021.

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, June 17, 2021. **Invited**

Foundational conditions enabling collaborative resource management in two geographically and regulatorily different watersheds. 2021 Virtual IASNR Conference, June 24, 2021.

Personal Empowerment. Indiana Watershed Leadership Academy, Virtual, May 12, 2021. **Invited**

Integrating Leadership Theory and Practice into Watershed Training: The Case of The Nebraska Water Leaders Academy. USDA North Central Region Water Network, Virtual, April 21, 2021. **Invited**

Watershed Leadership Training Hub Stakeholder Conversation. USDA North Central Region Water Network, Virtual, January 19, 2021. **Invited**

Water for Agriculture: Engaging with stakeholders to find solutions. AWRA Annual Conference, Virtual, November 10, 2020.

Central Platte Local Leadership Team - From knowledge to understanding: Lessons learned from integrating research and stakeholder Engagement in a Water & Agriculture Project. Nebraska Water Center Virtual Conference, August 3, 2020. **Invited**

An Assessment of local, integrated water resource management in the Platte River Basin,

Nebraska, USA. ISSRM Virtual Conference, June 15, 2020.

Nebraska's local, integrated approach to water management in the Platte River Basin: A case study. International Society for River Science special session planning meeting, May 28, 2020.

From Knowledge to Understanding: Lessons Learned from Integrating Research and Stakeholder Engagement in a Water & Agriculture Project. University of Washington EarthLab Lunch & Learn Webinar Series, May 12, 2020. **Invited**

The Nebraska Water Leaders Academy. Nebraska Natural Resources Commission, February 19, 2020. **Invited**

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, January 23, 2020. **Invited**

Personal Empowerment. Nebraska State Irrigation Association, Nebraska Water Leaders Academy, November 21, 2019. **Invited**

Strategies for Stakeholder Engagement to Address Water and Agricultural Challenges in Stakeholder Engagement. Nebraska Water Center Annual Conference, October 10, 2019. **Invited**

Nebraska Spotlight: On-going Maintenance Needs for Phragmites in the Platte River, USDA Water for Food Project Meeting, September 26, 2019

Exploring Social Network Analysis as a Resource for Supporting Community-Led Stakeholder Engagement to Manage Water and Agricultural Challenges in Rural Communities in Nebraska and Pennsylvania, U.S. With A. Chaudhary, W. Eaton, K. Brasier, E. Engle, & H. Whitley. ISSRM, June 4, 2019.

What Changes through Engagement and How? A Conceptual Model. With W. Eaton, K. Brasier, E. Engle, & H. Whitley. ISSRM, June 4, 2019.

Participatory Cultures' in Stakeholder Engagement: Evidence from NE and PA Farmers. With W. Eaton, K. Brasier, E. Engle, & H. Whitley. ISSRM, June 4, 2019.

Boundary Spanners: A key Resource in Developing Trust between Stakeholders in Integrated Water Resource Management. With J. Delozier. ISSRM, June 4, 2019.

Great Plains Ranchers Management for Vegetation Heterogeneity: The Need for Partnerships. With S. Kennedy, W. Schacht, & L. Powell. ISSRM, June 4, 2019.

Securing Water for and from Agriculture through Effective Community and Stakeholder Engagement. American Water Resources Association, March 27, 2019.

Water for Agriculture and Local Leadership Teams. Central Platte Region Local Leadership Team, February 5, 2019.

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, January 24, 2019. **Invited**

Tapping into Your Motivation to Serve and Inspiring Others in Their Service. Nebraska State Irrigation Association, Nebraska Water Leaders Academy, November 15, 2018. **Invited**

Personal Empowerment - Continuing to Develop Your Leadership Capacity. Nebraska State Irrigation Association, Nebraska Water Leaders Academy, November 15, 2018. **Invited**

Creating an Engaged Approach to Water for & from Agriculture. Nebraska Water Center Advisory Board Meeting, November 5, 2018. **Invited**

State Spotlight - Nebraska. Second annual Water 4 Ag meeting. September 26, 2018.

Maximizing Your Civic Capacity by Engaging in Water Issues. With N. Wall. Nebraska Association of County Officials (NACO), Institute of Excellence, September 7, 2018. **Invited**

Catalysts of change: An evaluation of the Nebraska Water Leaders Academy. ISSRM, June 20, 2018.

Catalysts for Water Resources Protection and Restoration: Applied Social Science Research. First Annual ARD Hatch Multistate PD Meeting, June 12, 2018

Securing Water for and from Agriculture through Effective Community & Stakeholder

Engagement. Nebraska Water Center, Spring Retreat, April 5, 2018. **Invited**

Maximizing Your Civic Capacity by Engaging in Water Issues. Nebraska Association of County Officials (NACO), Institute of Excellence, February 13, 2018. **Invited**

Online Data Available from the CSD. Nebraska Association of County Officials (NACO), Institute of Excellence, February 13, 2018. **Invited**

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, January 25, 2018. **Invited**

Securing Water for and from Agriculture through Effective Community & Stakeholder Engagement. Nebraska Association of Resources Districts, Legislative Conference, January 24, 2018. **Invited**

Personal Empowerment - Continuing to Develop Your Leadership Capacity. Nebraska State Irrigation Association, Water Leaders Academy, November 16, 2017. **Invited**

Tapping into Your Motivation to Serve and Inspiring Others in Their Service. Nebraska State Irrigation Association, Water Leaders Academy, November 16, 2017. **Invited**

The Nebraska Water Leaders Academy (poster). Nebraska Water Center, 2017 Water Symposium, October 26-27, 2017

Addressing or Managing Difficult Natural Resource Issues. Something Wicked This Way Comes: A Round Table on Engaging Stakeholders and Seeking Solutions to Complex Natural Resource Challenges. Penn State University College of Law, October 20, 2017. **Invited**

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, January 26, 2017. **Invited**

Personal Empowerment - Continuing to Develop Your Leadership Capacity. Nebraska State Irrigation Association, Water Leaders Academy, November 17, 2016. **Invited**

Tapping into Your Motivation to Serve and Inspiring Others in Their Service. Nebraska State Irrigation Association, Water Leaders Academy, November 17, 2016. **Invited**

Improving Science Student Retention: A Survey Tool to Measure First-year Students' Likelihood to Remain at UNL. Discipline-Based Education Research Group, STEM Ed Seminar, September 29, 2016.

Communicating Science through the Nebraska Water Leaders Academy (poster). With S. Moncure. SciComm 2016, September 24, 2016.

Understanding Ranchers' Perceptions of Heterogeneity in the Northern Great Plains (poster). With M. Sliwinski, L. Powell, & W. Schacht, International Rangeland Conference, July 21, 2016. **Invited**

The Impact of Place Attachment on Land Succession of Farmers: A Mixed Methods study. With Shari Kunert, ISSRM, June 24, 2016.

Citizen Participation & Collaborative Resource Management. Water Leaders Academy, May 20, 2016. **Invited**

The Impact of Place Attachment on Land Succession of Farmers: A Mixed Methods study. With Shari Kunert, Nebraska Academy of Sciences, April 22, 2016.

Collaborative Watershed Management: Research Overview. North Central Regional Water Network conference, March 21, 2016. **Invited**

Examining landscape heterogeneity and understanding ranchers' perceptions of heterogeneity in the Northern Great Plains. With M. Sliwinski, L. Powell, & W. Schacht. Nebraska Chapter of the Wildlife Society, Annual Meeting, 8-10 March 2016, Kearney, NE.

Understanding Ranchers' Perceptions of Heterogeneity in the Northern Great Plains (poster). With M. Sliwinski, L. Powell, & W. Schacht, Nebraska Chapter of the Wildlife Society, Annual Meeting, 8-10 March 2016, Kearney, NE.

Understanding Ranchers' Perceptions of Heterogeneity in the Northern Great Plains (poster). With M. Sliwinski, L. Powell, & W. Schacht, Prairie Conservation and Endangered Species Conference, 16-18 February 2016, Saskatoon, SK, Canada. (Poster)

Monitoring Groundwater Levels in Nebraska. Nebraska Well Drillers Association Annual Convention, February 20, 2016. **Invited**

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, January 28, 2016. **Invited**

Personal Empowerment - Continuing to Develop Your Leadership Capacity. Nebraska State Irrigation Association, Water Leaders Academy, November 19, 2015. **Invited**

Tapping into Your Motivation to Serve and Inspiring Others in Their Service. Nebraska State Irrigation Association, Water Leaders Academy, November 19, 2015. **Invited**

Understanding Ranchers' Perceptions of Heterogeneity in the Northern Great Plains (poster). With M. Sliwinski, L. Powell, & W. Schacht, The Wildlife Society, Annual Meeting, October 19, 2015.

Understanding Ranchers' Perceptions of Heterogeneity in the Northern Great Plains (poster). With M. Sliwinski, L. Powell, & W. Schacht, America's Grassland Conference, September, 29, 2015.

Dedicated Customers at the Cooperative Grocery Store: Supporting Local Sustainable Food Production through Building a Sense of Community. With S. Moncure. ISSRM, June 18, 2015.

Determining the Effect of Energy Default Scenarios when Energy Grid Parity. With S. Moncure & J. Smith. ISSRM, June 16, 2015.

Citizen Participation & Collaborative Resource Management. Water Leaders Academy, May 15, 2015.

Full Range Leadership for the Daugherty Water for Food Institute. Daugherty Water for Food Institute, April 3, 2015. **Invited**

Nebraska Water Leaders Academy (poster). With J. Cramer, C. Reimers-Hild, & L. Orton. Nebraska Water Center, Water Symposium, March 19, 2015.

Leadership Reflection. Nebraska State Irrigation Association, Water Leaders Academy, March 26, 2015. **Invited**

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, January 22, 2015. **Invited**

Personal Empowerment - Continuing to Develop Your Leadership Capacity. Nebraska State Irrigation Association, Water Leaders Academy, November 21, 2014. **Invited**

Tapping into Your Motivation to Serve and Inspiring Others in Their Service. Nebraska State Irrigation Association, Water Leaders Academy, November 21, 2014. **Invited**

Interpreting Leadership Skills Assessments. Nebraska State Irrigation Association, Water Leaders Academy, November 21, 2014. **Invited**

The Nebraska Water Leaders Academy - Preparing Nebraska's Future Water Leaders. With JoLeisa Cramer, 2014 Lower Platte River Summit, November 6, 2014.

Nebraska's Water Leadership Needs. Nebraska State Irrigation Association, Water Leaders Academy, September 19, 2014. **Invited**

Adaptive Management. With JoLeisa Cramer, Nebraska State Irrigation Association, Water Leaders Academy, September 19, 2014. **Invited**

The Nebraska Water Leaders Academy - Growing Nebraska's Future Water Leaders. With Lee Orton. Nebraska Water Balance Alliance, July 24, 2014.

Challenging Leadership Issues Facing Nebraska Water Policy. Nebraska State Irrigation Association, Water Leaders Academy, July 19, 2014. **Invited**

Nebraska Water Leaders Academy. Banner, UNL School of Natural Resources.

Full Range Leadership for Leaders in the Water Arena. Nebraska State Irrigation Association, Water Leaders Academy, January 30, 2014. **Invited**

Human Dimension Activities to Encourage Sustainable Behavior. With L. Pennisi, UNL School of Natural Resources Fall Seminar Series, Lincoln, NE, December 4, 2013. **Invited**

Personal Empowerment - Continuing to Develop Your Leadership Capacity. Nebraska State

Irrigation Association, Water Leaders Academy, November 8, 2013. **Invited**
Tapping into Your Motivation to Serve and Inspiring Others in Their Service. Nebraska State Irrigation Association, Water Leaders Academy, November 8, 2013. **Invited**
Human Dimension in Agriculture and Natural Resources: What We Think We Know & Implications for Engineers, American Society of Agricultural and Biological Engineers - Nebraska Section, Lincoln, NE, October 4, 2013. **Invited**
Emotional Intelligence in the Workplace. Nebraska Educational Office Professional Association Spring Conference, Lincoln, NE, April, 19, 2013. **Invited**
Intractable Water Issues and Leadership. With C. Reimers-Hild, Nebraska State Irrigation Association, Water Leaders Academy, March 15, 2013. **Invited**
Assessing Retention in Two Freshman Natural Resource Orientation Courses. With S. Moncure, Discipline Based Education Research Group, University of Nebraska, Lincoln, NE, March 7, 2013. **Invited**
Institutional Success with Common-Pool Resources Is Empathy the Key? With G. Lynne, N. Czap, H. Czap, & W. Hayes, Center for the Study of Institutional Diversity, Arizona State Univ., February 25, 2013.
Human Factors in BMP Adoption, Heartland Bioenergy and Water Resources Workshop February 22, 2013. **Invited**
Full Range Leadership for Water Policy Leaders. Nebraska State Irrigation Association, Water Leaders Academy, January 25, 2013. **Invited**
Personal Empowerment - Continuing to Develop Your Leadership Capacity. Nebraska State Irrigation Association, Water Leaders Academy, January 11, 2013. **Invited**
Tapping into Your Motivation to Serve and Inspiring Others in Their Service. Nebraska State Irrigation Association, Water Leaders Academy, January 11, 2013. **Invited**
The Nebraska Water Leaders Academy: Blending Water Policy and Science with Leadership Theory. With C. Reimers-Hild & L. Orton, NSIA & NWRA 2012 Joint Annual Convention, November 20, 2012. **Invited**
The Nebraska Water Leaders Academy: Blending Water Policy and Science with Leadership Theory. With C. Reimers-Hild & L. Orton, Water: Science, Practice and Policy 2012, University of Nebraska, Lincoln, NE November 13, 2012. **Invited**
Using Normative Messages to Encourage Pro-Environmental Behaviors. With E. Kubicek & Z. Tang. Water: Science, Practice and Policy 2012, University of Nebraska, Lincoln, NE November 13, 2012.
Is a Fully-Sustainable World Within Reach? *Opportunities for Nebraska*, 3, 38-39, August 2012.
The Nebraska Water Leaders Academy: Blending Water Policy and Science with Leadership Theory. With C. Reimers-Hild, *Seventh International Conference on Interdisciplinary Social Sciences, Barcelona, Spain, June 25-28*.
Full Range Leadership for Water Policy Leaders. Nebraska State Irrigation Association, Water Leaders Academy, March 23, 2012. **Invited**
Personal Empowerment - Continuing to Develop Your Leadership Capacity. Nebraska State Irrigation Association, Water Leaders Academy, January 27, 2012. **Invited**
Tapping into Your Motivation to Serve and Inspiring Others in Their Service. Nebraska State Irrigation Association, Water Leaders Academy, January 27, 2012. **Invited**
Human Dimensions of Water Management: Including People in a Systems Approach. CASNR Winter Interim Workshop, January 6, 2012. **Invited**
Transformational Leadership in Times of Cutback Management. American Meteorological Society, Omaha Chapter, December 15, 2011. **Invited**
Empathy Priming and Emotional Feedback in Environmental Choice: Are They Effective? With G.D. Lynne, N.V. Czap, H.J. Czap, & M. Khachatryan. UNL Agronomy-Horticulture Seminar, University of Nebraska-Lincoln, Lincoln, NE, November 18, 2011. **Invited**

Human Dimensions of Natural Resource Management: It's all about the People. Master Naturalist Program, University of Nebraska-Lincoln, Lincoln, NE, October 22, 2011.

Invited

The Impacts of Drought on Ground Water Levels in Nebraska. With J. Korus. NGWA Virtual Conference on Declining Groundwater Levels, October 19, 2011. **Invited**

Empathy and Climate Change. With G.D. Lynne. Climate, Water and Ecosystems—Shaping the Great Plains Conference, University of Nebraska-Lincoln, Lincoln, NE, October 13, 2011.

Transformational Leadership and Adaptive Management. Nebraska State Irrigation Association, Water Leaders Academy, September 23, 2011. **Invited**

Leading Innovation: A Foundation for Personal and Organizational Change. With C. Reimers-Hild, Scottsbluff, NE, July 23, 2011. **Invited**

Full Range Leadership for Decision Makers on Water Resource Issues. Nebraska State Irrigation Association, Water Leaders Academy, March 25, 2011. **Invited**

Development of an Urban Food Leadership Co-op in Support of a Local Food System. With C.E. Quinn, J. Quinn, J. Van Wart, & K. Koehler-Cole. USEPA National Sustainable Design Expo, Washington, DC, April 23, 2010.

An Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs. With B. Ramamurthy, C. Knutson, & Y. Xue. USDA RMA meeting, November 18, 2009.

Constructing a Real-Time Ground Water Monitoring Network for Climate and Drought Impact Assessment. With C. Knutson. 2009 Theis Conference: Ground Water and Climate Change, National Ground Water Association, October 3, 2009.

Personal Characteristics of Farmers Effecting Pro-Environmental Behaviors that Impact Surface Water Quality (presentation). With C.E. Quinn. Heartland Regional Water Quality Conference, Overland Park, KS, October 28, 2009. **Invited**

Readiness Assurance in Team-Based Learning: Opportunities for Learning and Leadership Development. With H. Harding and G.S. Matkin. Association of Leadership Educators 2009 Conference, July 13, 2009, Providence, RI.

Critical Thinking in Environmental Ethics Education. With C.E. Quinn, C.E., & G.S. Matkin, G.S. Sustainable Agriculture Education Association National Conference, July 17, 2009, Ames, Iowa.

Personal Characteristics of Farmers Preceding Pro-Environmental Behaviors that Impact Surface Water Quality (presentation). With C.E. Quinn. Heartland Regional Water Quality Conference, Ames, IA, May 21, 2009. **Invited**

Understanding Personal Characteristics that Lead to Pro-Environmental Behaviors: An Attempt to Improve Surface Water Quality (poster). With C.E. Quinn. 2009 Future of Water for Food Conference, University of Nebraska-Lincoln, Lincoln, NE, May 4, 2009.

Streambank Testing in Nebraska (poster). With X-H. Chen, C. Chen, & S. Lackey. 2009 Future of Water for Food Conference, University of Nebraska-Lincoln, Lincoln, NE, May 4, 2009.

The CSD Statewide Groundwater-Level Monitoring Program. 2009 Future of Water for Food Conference, University of Nebraska-Lincoln, Lincoln, NE, May 4, 2009.

A Real-Time Groundwater Monitoring Network for Drought Impact Assessment (poster). With C.L. Knutson, Y. Xue, B. Ramamurthy. 2009 Future of Water for Food Conference, University of Nebraska-Lincoln, Lincoln, NE, May 4, 2009.

Personality Characteristics and Conservation Tillage: Understanding Farmers to Improve Surface Water Quality in Tuttle Creek Lake, KS (poster). With C.E. Quinn. 2008 Water Colloquium, University of Nebraska-Lincoln, Lincoln, NE, October 16, 2008.

A Real-Time Groundwater Monitoring Network for Drought Impact Assessment (poster). With Y. Xue, B. Ramamurthy, & C.L. Knutson. 2008 Water Colloquium, University of Nebraska-Lincoln, Lincoln, NE, October 16, 2008.

Groundwater Levels in Nebraska (Interview). *The Successful Farming Radio Magazine*, KJSK-AM, Columbus, NE, October 17, 2008. **Invited**

Groundwater Levels in Nebraska (Interview). *Nebraska Farmer*, Lincoln NE, October 1, 2008. **Invited**

Groundwater in Nebraska. Soil and Water Resources Club, University of Nebraska-Lincoln, Lincoln NE, September 30, 2008. **Invited**

A Real-time Groundwater-Level Monitoring Network. Husker Harvest Days, Grand Island NE, September 9-11, 2008.

Groundwater Levels in Nebraska (Interview). NET Radio, Lincoln NE, September 4, 2008.

Water Crisis Overrated Says UNL Expert (Press Release). West Central Research and Extension Center, North Platte NE, September 4, 2008.

Meadow Hydrology. Gudmundsen Sandhills Laboratory Open House, Whitman, NE, August 27, 2008. **Invited**

Water & Nebraska. Gudmundsen Sandhills Laboratory Open House, Whitman, NE, August 27, 2008. **Invited**

Groundwater Levels in Nebraska - A Contextual Overview. Nebraska Ethanol Board, Lincoln, NE, January 25, 2008.

LPS Science Administrators Leadership Review. Lincoln Public Schools, Lincoln, NE, March 6, 2008.

Emotional Intelligence and Leadership. Bellevue University, Lincoln NE, November 19, 2007. **Invited**

Development and Potential Applications of a Real-Time Ground Water Monitoring Network in Nebraska. With C. Knutson. NNRC Fall Meeting, November 15, 2007, Lincoln, NE.

Understanding personal characteristics that Lead to pro-environmental behaviors: An attempt to improve surface water quality (poster). With C.E. Quinn. SNR Research Colloquium, University of Nebraska-Lincoln, Lincoln, NE, October 25, 2007.

A real-time groundwater monitoring network for drought impact assessment (poster). With Y. Xue, B. Ramamurthy, & C.L. Knutson. 2007 Water Colloquium, University of Nebraska-Lincoln, Lincoln, NE, October 12, 2007.

Understanding personal characteristics that Lead to pro-environmental behaviors: An attempt to improve surface water quality (poster). With C.E. Quinn. 2007 Water Colloquium, University of Nebraska-Lincoln, Lincoln, NE, October 12, 2007.

Development and Potential Applications of a Real-Time Ground Water Monitoring Network in Nebraska. With C. Knutson. NRD Fall Conference, September 24, 2007, Kearney, NE. **Invited**

Chemical and Sediment Management in the Blue and Little Blue Watersheds above Tuttle Creek Lake: What Motivates Choices? With G. Lynne. Focus group meeting with farmers in Jefferson County, Nebraska, September 13, 2007.

Chemical and Sediment Management in the Blue and Little Blue Watersheds above Tuttle Creek Lake: What Motivates Choices? With G. Lynne. Focus group meeting with farmers in Gage County, Nebraska, September 11, 2007.

Chemical and Sediment Management in the Blue and Little Blue Watersheds above Tuttle Creek Lake: What Motivates Choices? With G. Lynne. Focus group meeting with farmers in Marshall and Washington Counties, Kansas, September 10, 2007.

LPS Science Administrators Summer Leadership Retreat. Lincoln Public Schools, Lincoln, NE, June 25-27, 2007. **Invited**

Understanding Personal Characteristics that Lead to Pro-Environmental Behaviors: An Attempt to Improve Surface Water Quality (poster). With C.E. Quinn. Annual Conference of the Nebraska Chapter of the Soil and Water Conservation Society, University of Nebraska-Lincoln, Lincoln, NE, June 7-9, 2007. **Invited**

Methods for Determination of Sedimentary Structures and Hydraulic Conductivities of a Streambed. North Central and South Central Geological Society of America Conference, April 11, 2007, Lawrence, KS.

Communications - Transitioning through Diversity to Teamwork. Lincoln Public Schools, Lincoln, NE, April 5, 2007. **Invited**

Overview of Nebraska Groundwater Issues. National Drought Mitigation Center, Lincoln, NE, November 21, 2006. **Invited**

Full Range Leadership and Motivation. Lincoln Public Schools, Lincoln, NE, November 30, 2006. **Invited**

Antecedents to Pro-Environmental Behaviors. With C.E. Quinn. 51st Annual Midwest Ground Water Conference, University of Nebraska-Lincoln. Lincoln, Nebraska. November 7 - 9, 2006.

Field Trip - Hydrogeology, of York Co., Nebraska and Surrounding Area and Effects of Surface Recharge on Groundwater. Midwest Ground Water Conference, Lincoln, NE, November 6, 2006.

Towards a Real-Time Groundwater Monitoring Network. With Y. Xue, B. Ramamurthy, & C.L. Knutson. 2006 Water Colloquium, University of Nebraska-Lincoln, Lincoln, NE, October 27, 2006.

Field Monitoring of the Hydrologic Impacts of Conservation Bench Terraces in the Republican River Basin. With B. Twombly, D.E. Eisenhauer, T. Yonts, D. Martin, A. Boldt, & P. Barnes. 2006 Water Colloquium, University of Nebraska-Lincoln, Lincoln, NE, October, 27, 2006,

Direct Push Sampling Methods for Stream-Aquifer Hydrologic Conductance Investigation. School of Natural Resources, Lincoln, NE, October 24, 2006.

The Four Roles of Department Chairs - A Review. Lincoln Public Schools, Lincoln, NE, September 7, 2006. **Invited**

Lincoln Public Schools Science Administrators' PLC Leadership Workshop. Lincoln Public Schools, Lincoln, NE, June 13-16, 2006. **Invited**

Emotional Intelligence and Transformational Leadership. Bellevue University, Omaha NE, June 3, 2006. **Invited**

An Integrated Real-Time Groundwater-Level Monitoring Network to Support Drought Impact Assessment and Mitigation Programs - Update of Activities. USDA Risk Management Agency, Topeka, KS, March 24, 2006.

Groundwater Levels in Nebraska: Past, Present and Future. Nebraska Association of Resources Districts Annual Legislative Conference. Lincoln, NE, January 25, 2006. **Invited**

Direct-Push Environmental Sampling Methods. University of Nebraska-Lincoln, Department of Geosciences, Lincoln NE, March 28, 2006.

Groundwater Levels in Nebraska. Nebraska Water Resources Association & Nebraska State Irrigation Association Annual Conference, Kearney, NE, November 21, 2005.

Groundwater-Level Monitoring in Nebraska. University of Nebraska-Lincoln, Department of Geosciences, Lincoln NE, October 25, 2005. **Invited**

Groundwater Sampling Equipment. University of Nebraska-Lincoln Department of Geosciences, Lincoln NE, September 21, 2005. **Invited**

Emotional Intelligence and Transformational Leadership. University of Nebraska-Lincoln Agricultural Leadership, Education and Communication, Lincoln NE, February 11, 2005. **Invited**

Emotional Intelligence and Leadership. Bellevue University, Omaha NE, February 7, 2005. **Invited**

Environmental Issues in the Urban-Rural Interface. University of Nebraska-Lincoln, Agricultural Leadership, Education and Communication, November 18, 2006. **Invited**

Groundwater Levels in Monitoring Wells in Nebraska - An Historical Perspective. Nebraska

Water Well Association, Kearney NE, October 19, 2004. **Invited**

CSD Groundwater-Level Monitoring Program. NRD Groundwater Technicians Course, Lower Loup Natural Resources District, Ord, NE, October 21, 2004. **Invited**

Emotional Intelligence and Leadership. Newly Appointed Administrators Workshop, Lincoln NE, June 9, 2004. **Invited**

Direct-Push Environmental Sampling Technology. University of Nebraska-Lincoln Agronomy/Horticulture Course, Lincoln NE, March 25, 2004. **Invited**

Direct-Push Environmental Sampling Technology. University of Nebraska-Lincoln Geosciences Course, Lincoln NE, March 25, 2004. **Invited**

Groundwater Sampling Equipment. University of Nebraska-Lincoln Geosciences Course, Lincoln NE, March, 22 2004. **Invited**

Groundwater-Level Monitoring in Nebraska and the High Plains Aquifer: Implications for Surface Water. Duck Unlimited, Grand Island, NE March 10, 2004. **Invited**

CSD Statewide Groundwater-Level Monitoring Program. NRD Spring Conference, March 2, 2004, Kearney, NE. **Invited**

UNL Conservation & Survey Division Groundwater-Level Monitoring Program: Mission, Challenges and Opportunities. Nebraska Association of Resources Districts Annual Conference, Kearney NE, March 2, 2004. **Invited**

Characterization of the Local Groundwater: Observations of Groundwater Level Conditions near Chester and Fairbury, NE. Little Blue NRD, January 19, 2004, Chester, NE. **Invited**

Emotional Intelligence and Full-Range Leadership Behaviors - A Leadership Development Workshop. Cedars Youth Services, Lincoln NE, June 20 and June 27, 2003. **Invited**

Sources of Motivation. Cedars Youth Services, Lincoln NE, June 20 and June 27, 2003. **Invited**

Inspiring Others as an Administrator. Newly Appointed Administrators Workshop, Lincoln NE, June 4, 2003. **Invited**

Direct-Push Technology - Methods and Opportunities. University of Nebraska-Lincoln, Lincoln, NE, April 29, 2003. **Invited**

Linking an Ability Model of Emotional Intelligence to Transformational Leadership Behaviors. Midwest Academy of Management. April 3-5, 2003, St. Louis, MO.

Emotional Intelligence in the Workplace. Nebraska Leadership Academy, Lincoln NE, April 2, 2003. **Invited**

Emotional Intelligence and Full-Range Leadership Behaviors - A Leadership Development Workshop. Lincoln Children's Museum, Lincoln NE, March 31, 2003. **Invited**

Groundwater Sampling Equipment. University of Nebraska-Lincoln Geosciences Course, Lincoln NE, March 27, 2003. **Invited**

Sources of Motivation. Lincoln Children's Museum, Lincoln NE, March 31, 2003.

Power, Influence Tactics and Empowerment. Cedars Youth Services Leadership Development Workshop, Lincoln, NE, May 20-22, 2002. **Invited**

Site Characterization. Natural Resources Districts Annual Workshop, Kearney, NE, March 7, 2001. **Invited**

Agrichemical Leaching in the Vadose Zone. Upper Niobrara-White NRD, Alliance, NE, January 26, 2001. **Invited**

In Situ Aquifer Denitrification Using a Daisy Well System. Lower Platte North Natural Resources District, Wahoo, NE, July 17, 2001.

Results of the Agrichemicals Study Within the Waverly Ground Water Reservoir Area. Lower Platte South NRD, Lincoln, NE, August 6, 1998.

The Use of Direct Push Technologies in Agrichemical and Related Environmental Investigations. Nebraska Well Drillers Association 1998 Conference, Kearney, NE, October 20-21, 1998. **Invited**

Ground Water Monitoring Devices. Environmental Sampling Field Demonstration, Shelton, NE, April 16, 1997. **Invited**

Groundwater Sampling Procedures. Water Quality Workshop, Grand Island, NE, April 14 & 15, 1997. **Invited**

Groundwater Sampling Procedures. Water Quality Workshop, Ogallala, NE, April 8 & 9, 1997.

Water Center Field QA/QC Methods. NRD Water Programs Conference, Kearney, NE, February 19 & 20, 1997. **Invited**

SPNRD Nitrogen Isotope Results - Summer 1996. South Platte NRD, Sidney, NE, Jan. 14. **Invited**

Case Studies: Irrigation Well Sampling. Nebraska Well Drillers Association, Conference on Environmental Water Well Sampling and Construction, Kearney, NE, October 22 & 23, 1996. **Invited**

The Water Detectives. UNL Museum-Sunday with a Scientist Program, Lincoln, NE, August 4, 1996. **Invited**

Results of Ground Water Research Projects Within the Waverly, NE Area. Lower Platte South NRD, Waverly, NE, July 1, 1996.

Benefits of Vadose Zone Coring Within the South Platte NRD. South Platte Natural Resources District, Sidney, NE, June 13, 1995.

Investigation and Evaluation of Agrichemical Transport near Waverly, Nebraska. Lower Platte South NRD, Lincoln, NE, October 18, 1994.

The Relationship of Vadose Zone Processes and NPS Pollution. USEPA Region 7 Second Annual NPS Workshop, Overland Park, KS, December 7, 1993.

Nebraska Management Systems Evaluation Area, Preliminary Results. MSEA Demonstration Day, August, 1991, 1992 and 1993. **Invited**

Investigation and Evaluation of Agrichemical Transport in the Vadose Zone Near Waverly, Nebraska: Progress Report. Lower Platte South NRD, Committee on Water Quality, Waverly, Nebraska, July 15, 1993. **Invited**

Professional Organizations

- International Association for Society and Resource Management (IASNR)
- Nebraska Academy of Sciences
- Center for Great Plains Studies
- National Association of College Teachers of Agriculture (NACTA)
- Ecological Society of America
- Institute of Behavioral and Applied Management
- Nebraska Well Driller's Association

Professional Service (2003-Present)

School/Department

Teaching Coordinator, School of Natural Resources, (2010-2016)

ACE Coordinator, School of Natural Resources, (2012-2016)

Program Excellence through Assessment, Research & Learning (PEARL) Coordinator, School of Natural Resources, (2012-2016)

Leader, School of Natural Resources Human Dimensions Faculty Area (2009-Present)

College/University

Advisor, North Central Region Water Network Watershed Training Hub (2021)

Advisor, Platte River Social Science Project, Playa Lakes Joint Venture (2021)

Member, Sandhills Atlas Board of Advisors (2020)

Reviewer, Hatch Team Project, Ag Research Division (2015)

Member, Promotion Review Team, Cooperative Extension Division (2010-2015)

Member, STEM Graduate Minor Committee (2014-Present)

Member, Environmental Studies Coordinating Committee (2008-Present)

Member, Environmental Cognition and Education Center development team (2011-2015)

Member, Center for Great Plains Studies Board of Governors (2010-2013)
UNL Representative, Proposed Northern Great Plains Hydrologic Obs. Network (2007-2010)
UNL EPSCoR Rep., Cyberinfrastructure for Integrated Earth Observing Systems (2006)

Profession

Advisor, Audubon Nebraska, VESPR program (2020-Present)
Member, No. Cntrl Ag. Exp. Stations, Multistate Res. Team, NC1190, (2010-Present; Chair, 2013; Secretary, 2017; Voce-Chair, 2018; Chair, 2019)
Organizer, Special Session - Advances in Stakeholder and Public Engagement, 25th International Symposium on Society and Resource Management, Oshkosh, WI. (2019)
Advisor, Nebraska State Irrigation Association (2010-Present)
Reviewer, Society & Natural Resources (2022)
Reviewer, USGS Fundamental Science Practices (2015, 2021)
Reviewer Journal of Wildlife Management (2018)
Reviewer, Journal of Contemporary Water Research and Education (2018, 2019)
Reviewer, USGS Book Chapter, Multivariate Models and Analyses (2017)
Reviewer, Land Use Policy (2016)
Reviewer, VOLUNTAS (2015)
Reviewer, Journal of the American Water Resources Association (2014, 2016)
Reviewer, Water Alternatives journal (2013)
Reviewer, Journal of Soil and Water Conservation (2013, 2015(2), 2016, 2017, 2020, 2021)
Reviewer, Papers in Applied Geography (2009-2019)
Reviewer, Center for Great Plains Studies grant proposals (2010)
Reviewer, Center for Great Plains Studies Book Award (2008-2010), Chair, 2010
Reviewer, U.S. Geological Survey 104G grant proposals (2004, 2009, 2011)
Reviewer, Great Plains Research journal (2005, 2008, 2012, 2015, 2018)
Advisor, Little Blue NRD, Bruning Area Hydrogeologic Investigation (2008-2010)
Advisor, UNL Hospitality, Restaurant, and Tourism Curriculum Development (2007-2008)
Judge, Nebraska Junior Science Academy (2006-2019)
Reviewer, Journal of the Academy of Business Education (2004, 2007, 2009)
Advisor, Wann Basin Ground Water Level Monitoring Network (2003-present)
Advisor, Technical Advisory Committee, Nebr. Dept. of Environmental Quality (2005-2008)
Reviewer, Eastern Academy of Management, Organizational Behavior (2003-2008)
Advisor, Nebraska Ground Water Monitoring Advisory Committee, NGWMAC (2003-present)
Reviewer, Inst. of Behavioral and Applied Management, Org. Behavior Division (2003-06)
Session Chair & Discussant, Institute of Behavioral and Applied Management (2003-06)
Reviewer, Inst. of Behavioral and Applied Management, Student Papers Division (2002-06)
Human Subjects Research Training (CITI certification), 2002-Present

University Committees (2003-Present)

School/Department

Academic Program Review, Human Dimensions Subgroup - *Chair* (2021)
Community Engagement - *Member*, (2019-present)
Environmental Science Major Survey - *Developer* (2017)
Gender Climate Survey - *Developer* (2016-2017)
Search Committee, Human Dimensions of Wildlife - *Member* (2015)
Faculty Advisory Committee *Member* (2011-2016)
Undergraduate Curriculum Committee - *Chair*, (2010-2016)
Graduate Committee - *Chair* (2012), *Member* (2008-2016)
Promotion & Tenure Committee - (2010-2015, 2018)

Survey Committee - *Member* (2007-Present)
Extension Committee - *Member*, (2010-Present)
Social Committee - *Member* (1999-2011)
Search Committee, Groundwater Coordinator - *Member* (2008)
Search Committee, Isotope Scientist - *Member* (2006)

College/University

Education Abroad Advisor Committee, *Member* 2018-2020
Search Committee, Environmental Policy, Public Policy- *Member* (2015)
ARD/Hatch Project Review Team, *Member*, (2015)
Higher Learning Commission Quality Initiative, *Member*, (2014-2018)
Online & Distance Education Advisory Team, CASNR - *Member* (2014-2018)
Curriculum Committee, CASNR - *Member* (2011-2017)
Curriculum Development Team for AGRI 105, CASNR - *Member* (2011-2017)
Program Advisory Team, Comm. & Reg. Planning Dept. - *Member* (2011)
Environmental Studies Coordinating Committee- *Member* (2010-Present)
Promotion Review - Dr. Wayne Babchuk, Depts. of Anthropology and Educ. Psychology (2016)
Teaching and Learning Improvement Council, CASNR - *Special Advisor* (2011)
Board of Governors, Center for Great Plains Studies - *Member* (2010-2013)
Program & Planning Committee, Center for Great Plains Studies - *Chair* (2010-2013)
Search Committee, Director, Center for Great Plains Studies - *Member* (2011)
Extension Promotion & Tenure Committee - (2010-Present)
Teaching and Learning Improvement Council, CASNR - *Member* (2007-2010), *Chair* (2009)
Publications Committee, Center for Great Plains Studies - *Member* (2006-2010)
Book Award Committee, Center for Great Plains Studies - *Member* (2007-2009)
Search Committee, Environmental Planner, Comm. & Reg. Planning Dept. - *Member* (2007-08)
51st Annual Midwest Ground Water Conference Organizing Committee - *Co-chair* (2004-06)

Licensure/Certification

- Institutional Review Board Protection of Human Research Subjects Certification
- Advanced Management Development Certificate
- UNL Civil Rights Training, Harassment Training, and Supervisor Training
- Search Committee Training/Certification
- Well Drilling Contractor (State of Nebraska #39416)
- Hazardous Materials Incident Response Operations, 29 CFR 1910.120
- UNL Search Committee Certification/ADA Training Certificate
- American Red Cross Adult CPR/Standard First Aid
- CORE Safety Training
- Good Laboratory Practices Certification
- Advanced Management Development Certificate