

CURRICULUM VITAE

JULIE E. NIESET

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INTERESTS: Wetland and prairie ecology and community dynamics. GIS land and watershed analyses. Ecological restoration. Community science outreach. Sustainable agriculture.

RESEARCH: Many landscapes within the Midwest U.S. have lost high percentages of historical wetlands and prairies due to human activities. GIS and other technologies, paired with long-term datasets, can aid in mapping appropriate restoration placement and practices. Building bridges to policymakers and engaging in science education outreach to communities enhances relevance of research.

Sample of Current Research Projects:

- Developing ‘wetland restoration potential’ mapping using advanced GIS techniques
- Building predictive models utilizing the extensive 35+ year INHS wetlands dataset, laying the groundwork for integrating AI/ML into wetland research
- Analyzing land use practices and transportation corridors in support of species and habitat conservation, especially for the rattlesnake master borer moth (*Papaipema eryngii*) and associated plant (*Eryngium yuccifolium*) populations
- Assessing federal wetland policy changes and implications to Illinois wetlands to inform state-level stream and wetland policy decisions
- Fostering collaborations for developing GK-12 student learning metrics for place-based science outreach

EDUCATION

M.S. Biology, Summa cum laude, University of Akron, Akron, OH
Graduate certificates in Environmental Studies and Technical Education, University of Akron
B.G.S., General Studies/Pre-Medicine, Magna cum laude, Kent State University, Kent, OH
Inducted into Mortar Board Honorary Society, Kent State University

WORK HISTORY

Illinois Natural History Survey, Wetland Plant Ecologist, Champaign, IL, 2012-Present.
GAI Consultants, Inc., Senior Environmental Specialist, Cincinnati, Ohio, 2008-2012.
Organic Farm Inspector, Independent contractor inspecting throughout Ohio, 2007-2011.
Mr. K’s Math Camp, Assistant Teacher/Gardener, Cincinnati, Ohio, 2010-2011.
Cincinnati Museum Center, Seasonal Naturalist, Edge of Appalachia Preserve, West Union, Ohio, 2007.
Akron Public Schools, Substitute Teacher, Akron, Ohio, 2006-2007.
University of Akron, National Science Foundation (NSF) Grade K-12 Fellow, Dept. of Biology, Ohio, 2003-2006.
Cuyahoga Valley National Park, Interpretive Park Ranger, Brecksville, Ohio, 2002-2003.
U.S.G.S. Northern Prairie Wildlife Research Center. Student Conservation Association Intern. Cottonwood Lake Study Area, Jamestown, ND, 2001.

PROFESSIONAL EXPERIENCE:

2012-present **Wetland Plant Ecologist, Illinois Natural History Survey – Wetland Science Program, University of Illinois – Prairie Research Institute, Urbana-Champaign, Illinois.**

- Delineate wetlands by analyzing vegetation and hydrology following established federal protocol.
- Locate and document high quality natural areas and identify habitats for threatened and endangered plants and animals in Illinois Department of Transportation (IDOT) project areas.
- Assess the floristic quality of wetland delineations sites and Illinois natural areas.
- Prepare technical reports describing the results for the sponsor for environmental permitting.
- Participate in long-term wetland mitigation projects, including locating and evaluating potential mitigation sites, assisting with site design, selecting appropriate species for re-vegetation, and designing and implementing monitoring programs.
- Conduct independent ecological research on natural areas as time permits.
- Prepare scientific reports for funding agencies or for publication in professional journals, as appropriate.
- Present findings of research at professional meetings.
- Provide technical expertise regarding current wetland issues.
- Provide training in wetland science to government employees and collaborate with regional professionals on wetland issues.
- Mentor and supervise junior staff.
- Ability to work independently and as an effective team member.
- Spearhead innovative outreach and public engagement activities.

2008-2012 **Senior Environmental Specialist, GAI Consultants, Inc. Cincinnati, Ohio.**

Conducted US Army Corp of Engineer (USACE) wetland delineations and assessments, Ohio EPA QHEI and HHEI stream assessments, water quality and plant sampling surveys. Worked as part of a team in writing and assembling Ohio Power Siting Board (OPSB) Applications, Federal Energy Regulatory Commission (FERC) Environmental Assessment (EA) and Resource Reports, and USACE Section 404/State Section 401 reports and permitting requirements. Utilized skills with Global Positioning Systems (GPS) and Geographic Information System (GIS) software for mapping and analysis of land use, environmental, and cultural resources.

2008-2012 **Organic Farm Inspector, Independent Contractor, Inspected farms across Ohio.**

Delineate we Accredited agencies contracted with: Ohio Ecological Food and Farm Association (OEFFA), Global Organic Alliance (GOA). Assess and evaluate farm compliance with USDA National Organic Program standards. Generate clear and concise reports in timely manner. Organize and coordinate paperwork and inspections.

2009-2011 **Assistant Teacher/Gardener, Mr. K's Math Camp, Cincinnati, Ohio.**

Assistant and fill-in teacher for the gardening enrichment math module for urban students, predominantly with grades 4-8 students. Developed and implemented hands-on, inquiry-based curriculum around edible native fruit and nut trees- focusing on eastern persimmon, pawpaw, shagbark hickory, wetland gardens-focusing on cattail, elderberry, and hibiscus, and old field plants - focusing on sumac, prairie rose, and blackberry. Planted a three-sisters garden of corn-squash-beans with students. Worked with students in the site garden while bringing in math and ecology concepts into the tasks.

2007 **Seasonal Naturalist, Cincinnati Museum Center's Edge of Appalachia Preserve, West Union, Ohio.**

One of the most biologically diverse collections of natural systems in the Midwestern U.S and nationally recognized preserve complex encompassing 17,000 acres of rugged woodland, prairie

openings, waterfalls, giant promontories and clear streams. Implemented residential summer science camp program. Participatory programs resulted in children's understanding of scientific methods, sampling species and populations, identification of plants and animals, and viewing of rare species.

2003-2006 National Science Foundation GK-12 Fellow, University of Akron, Ohio.

The GK-12 program supported students in science disciplines to bring university research into grades K-12 learning settings, and enrich science learning and instruction in K-12 settings. Collaborated with grades K-12 teachers to develop and implement science curriculum. Interned at Cuyahoga Valley Environmental Education Center (Grades 4-6) and at Akron Public School middle school (Grade 6). Developed surveys, analyzed and summarized survey results to solicit curriculum ideas, professional development preferences and implementation from K-12 teachers in the program.

2002-2003 Interpretive Park Ranger, Cuyahoga Valley National Park, Brecksville, Ohio.

Park covering 33,000 acres along Cuyahoga River. Developed and implemented interpretive programs, answered questions on phone and in person throughout parks and trails, and manned visitor centers to facilitate visitor knowledge, stewardship, and enjoyment of park resources.

2001 Student Conservation Association Intern, USGS Northern Prairie Wildlife Research Center, ND.

Cottonwood Lake Study Area is internationally recognized as one of the most intensively studied wetland complexes in North America. Research at CLSA has laid the foundation for science-based management of prairie wetlands. Sampled and identified aquatic and benthic invertebrates, captured, identified and released amphibians, surveyed wetland birds, surveyed wetland plants, performed hydrological and water chemistry assessments, in 19 wetlands at the Cottonwood Lake Study Area. Initiated and completed a project categorizing and describing the 260 plants found at the study site.

GRANT, CONTRACT, and FELLOWSHIP SUPPORT

- Prairie Research Institute (PRI) 2025 Fellow. Enhancing strategic partnerships and investigating resources for integrating AI/ML within PRI research. Funded. 15K.
- USEPA Region 5 Wetland Program Development Grant: Illinois Wetlands Risk Assessment, November 2023. PI: Jeffrey Matthews. Co-PI: Julie Nieset, Geoff Pociask, and Brian Wilm. \$317,728. Funded.
- Submitted RFP #22-05: Illinois Department of Transportation's Seeding Standards and Best Management Practices, May 2022. PI: Julie Nieset and Edward Price. Co-PI's: Valerie Sivick, Eric Janssen, Brenda Molano-Flores and Brian Wilm. \$270,000. Not funded.
- Assist with tasks for INHS Wetland Science Program \$1.75M yearly IDOT contract justification and reporting.

PUBLICATIONS (PEER-REVIEWED)

- Molano-Flores, B., P. Dickerson, S. McIntyre, **J. Nieset**, and C.H. Dietrich. 2024. A three-year survey of the rare stem-boring moth *Papiapema eryngii*. *Natural Areas Journal*. 44(1): 21-26. [Volume 44 Issue 1 | Natural Areas Journal \(illinois.edu\)](#)
- Davis, O., Molano-Flores, B., Li, Y., Allen, M., Davis, M., Mengelkoch, J., Parkos III, J., Porreca, A., Fournier, A., Tiemann, J., Bried, J., Marcum, P., Carroll-Cunningham, C., Janssen, E., Ulaszek, E., McIntyre, S., Price, E., **Nieset, J.**, Beveroth, T., Di Giovanni A., Askren, R., Malanchuk, L., Duquette, J., Dreslik, M., McElrath, T., Stodola, K., Malcom, J., Carter, A., Evansen, M., and L. Gerber. 2024. Tracking Species Recovery Status to Improve Endangered Species Act Decisions. *Conservation Science and Practice* 6 (8) e13159. <https://doi.org/10.1111/esp2.13159>
- Drinkard, M., M. Kershner, A. Romito, **J. Nieset**, and F. deSzalay. Responses of Plants and Invertebrate Assemblages to Water Level Fluctuation in Headwater Wetlands. *Journal of the North American*

Benthological Society, 30(4):981-996. 2011.

GRANTS REVIEWED

Served on the Society Wetland Scientists North Central Chapter (SWS NCC) research and student travel grants committees. 2015-2020.

PUBLICATIONS (Non-Peer Reviewed)

Nieset, J. 2022. Volo Bog State Natural Area (Ingleside, Illinois) – Exemplar of Bog Succession. *Wetland Science & Practice*. April, 40 (2), 157-161. [April 2022 Wetland Science & Practice](#)

Nieset, J. 2022. Cuatrociénegas Wetlands (Coahuila de Zaragoza, Mexico). *Wetland Science & Practice*. January, 40 (1), 98-99. [January 2022 Wetland Science & Practice](#)

Nieset, J.E. The Effect of Protozoan Predation on Four Bacterial Communities. University of Akron Master's Thesis. May 2006. Document number: akron 1145300999, University of Akron library.

Caissa, M., **Nieset, J.**, Romita, A., and F. deSzalay. Plant and Invertebrate Community Changes by Flood-Pulsing in a Constructed Riparian Wetland. American Geophysical Union, Spring Meeting 2005, abstract #NB32F-03. <http://dx.doi.org/10.1899/10-099.1>

TECHNICAL REPORTS

Non-IDOT Wetland Science Program Technical Reports and atypical IDOT Technical Reports

- Pociask, G., Wilm, B., Burkwald, K., Noyes, A., and **J. Nieset**. Results of IDOT *Wetland Mitigation Needs Assessment*. Illinois Center for Transportation, Civil Engineering Studies, Series No. 24-003. <https://www.ideals.illinois.edu/items/128982>
- Noyes, A., **J. Nieset**, G. Pociask, I. Kenney, P. Marcum, J. Zinnen, and B. Aleladia. 2024. Wetland determination report: Boyd Creek Wetland and Stream Mitigation Banking Instrument, Wayne County, Illinois. Collaborative report between ISGS and INHS: INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (120): 1-87.
- Mitigation Banking Prospectus. Boyd Creek Wetland and Stream Mitigation Bank, Wayne County, Illinois. IDOT. With ISGS and INHS staff. 2022.
- Molano-Flores, B, P. Dickerson, S. McIntyre, C. Dietrich, and **J. Nieset**. 2020. Botanical and entomological surveys for the habitat and presence of *Papaipema eryngii* along the Union Pacific Railroad rights of way from Dwight to Pontiac, Illinois: a comprehensive report (2018, 2019, and 2020). Illinois Natural History Survey Technical Report 2020 (23). Prairie Research Institute, Illinois Natural History Survey, Champaign, Illinois. 48 pp (including Appendix-Maps).
- Molano-Flores, B, P. Dickerson, S. McIntyre, C. Dietrich, and **J. Nieset**. 2019. Botanical and entomological surveys for the habitat and presence of *Papaipema eryngii* along the Union Pacific Railroad rights of way from Dwight to Pontiac, Illinois, Year 2 (2019). Illinois Natural History Survey Technical Report 2019 (33). Prairie Research Institute, Illinois Natural History Survey, Champaign, Illinois. 22 pp (including Appendix-Maps).
- Molano- Flores, B., P. Dickerson, S. McIntyre, C. Dietrich, and **J. Nieset**. 2018. Botanical and entomological surveys for the habitat and presence of *Papaipema eryngii* along the Union Pacific Railroad rights of way from Dwight to Pontiac, Illinois. Illinois Natural History Survey Technical Report 2018 (34). Prairie Research Institute, Illinois Natural History Survey, Champaign Illinois. 21 pp (including Appendix-Maps).
- Molano- Flores, B., S. McIntyre, C. Grinter, C. Dietrich, and **J. Nieset**. 2016. Botanical and entomological surveys for the habitat and presence of *Papaipema eryngii* along the Union Pacific Railroad rights of way from Dwight to Pontiac, Illinois. Illinois Natural History Survey Technical Report 2016 (51). Prairie Research Institute, Illinois Natural History Survey, Champaign Illinois. 14 pp (+Maps).
- Contributed to INHS Technical Report 2015 (32) Conservation of the Illinois Flora: A Climate Change Vulnerability Assessment of 73 Plant Species. Prepared by: J. Baty, D. Zaya, G. Spyreas, B. Molano-Flores, and T. Benson. <https://www.ideals.illinois.edu/items/89622>

Primary Author – IDOT Wetland Survey Technical Reports, May 2012-Dec 2024

- Nieset, J.,** I. Draheim, P. Marcum, and D. Skultety. 2012. Wetland delineation report: Edson Rd. (TR 59, 59A, MS 800), Rothwell Road to 0.13 mile east of Lindenwood Road, Ogle & Winnebago County, Illinois. INHS/IDOT Wetlands Vegetative and Soils Program Report 2012 (58): 1-51.
- Nieset, J.,** G. Geatz, and B. Zercher. 2012. Wetland delineation report: US 12 (FAP 334) at IL 59, Lake County, Illinois. INHS/IDOT Wetlands Vegetative and Soils Program Report 2012 (78): 1-15.
- Nieset, J.,** J. Kurylo, and B. Zercher. 2012. Wetland delineation report: IL 47 (FAP326) Addendum A at Main Street, Kane County, Illinois. INHS/IDOT Wetlands Vegetative and Soils Program Report 2012 (103): 1-64.
- Nieset, J.,** and D. Skultety. 2012. Wetland delineation report: US 45 (FAP 344) at IL 173, Lake County, Illinois. INHS/IDOT Wetlands Vegetative and Soils Program Report 2012 (72): 1-12.
- Nieset, J.,** J. Tsai, B. Zercher, and B. Beas. 2012. Wetland delineation report: MLK approach to I-70 (FAP 999), St. Clair County, Illinois. INHS/IDOT Wetlands Vegetative and Soils Program Report 2012 (94): 1-24.
- Nieset, J.,** S. Wiesbrook, B. Zercher, and V. Sivicek. 2012. Wetland delineation report: IL 89 (FAP 698) over the Illinois River at Spring Valley, Bureau & Putnam County, Illinois. INHS/IDOT Wetlands Vegetative and Soils Program Report 2012 (69): 1-53.
- Nieset, J.,** B. Wilm, I. Draheim, M. Engelhardt, and B. Zercher. 2012. Wetland delineation report: I-80/I-355 (FAI 80) Cedar Road to I-355 Ramp, Will County, Illinois. INHS/IDOT Wetlands Vegetative and Soils Program Report 2012 (50): 1-24.
- Nieset, J.,** D. Keene, D. Skultety, and M. Engelhardt. 2013. Wetland delineation report: Prairie Fields Trail, Champaign County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2013 (61): 1-56.
- Nieset, J.,** J. Kurylo, and B. Zercher. 2013. Wetland delineation report: TR 114 over Prairie Creek, White County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2013 (40): 1-23.
- Nieset, J.,** J. Kurylo, and B. Zercher. 2013. Wetland delineation report: TR 124 over Prairie Creek, White County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2013 (41): 1-26.
- Nieset, J.,** J. Tsai, D. Ketzner, and D. Skultety. 2013. Wetland delineation report: I-70 (FAP 999), St. Clair County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2013 (68): 1-51.
- Nieset, J.,** D. Keene, S. McIntyre, I. Kenney, and D. Skultety. 2014. Wetland delineation report: IL 49 (FAP 836) over Catfish Creek, Edgar County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (64): 1-52.
- Nieset, J.,** D. Keene, and B. Zercher. 2014. Wetland delineation report: Willowbrook Road and Daikin Drive, Winnebago County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (54): 1-14.
- Nieset, J.,** I. Kenney, S. McIntyre, and D. Skultety. 2014. Wetland delineation report: Wesley Chapel Road (TR 164) over Lick Creek, Sangamon County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (49): 1-16.
- Nieset, J.,** I. Kenney, S. McIntyre, S. Wiesbrook, and D. Skultety. 2014. Wetland delineation report: CH 52 (FAP 414) - Willow Brook Road, Winnebago County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (32): 1-22.
- Nieset, J.,** J. Tsai, I. Kenney, S. Wiesbrook, D. Ketzner, and B. Zercher. 2014. Wetland delineation report: TR 145 over unnamed tributary to Elm River, Wayne County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (83): 1-26.
- Nieset, J.,** J. Tsai, D. Ketzner, and D. Skultety. 2014. Wetland delineation report: Movable bridges along the Des Plaines River, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (108): 1-29.
- Nieset, J.,** J. Tsai, and D. Skultety. 2014. Wetland delineation report: Calico Multi-Use Trail, Effingham County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (60): 1-20.
- Nieset, J.,** S. Wiesbrook, and D. Skultety. 2014. Wetland delineation report: TR 220 over Douglas Creek, Richland County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (100): 1-18.
- Nieset, J.,** J. Tsai, and D. Skultety. 2015. Wetland delineation report: TR 73 (E 1950 N) over Goose Creek, Piatt

- County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (47): 1-14.
- Nieset, J., S. Wiesbrook, A. Olnas, and B. Zercher.** 2015. Wetland delineation report: TR 118 over Crooked Creek Tributary, Edwards County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (55): 1-14.
- Nieset, J., S. Wiesbrook, A. Olnas, and B. Zercher.** 2015. Wetland delineation report: TR 302 (N 1425E), White County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (66): 1-14.
- Nieset, J., S. Wiesbrook, and D. Szafoni.** 2015. Wetland delineation report: TR 401 (CR 1550 E) over Raccoon Creek, Clark County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (93): 1-24.
- Nieset, J., S. Wiesbrook, J. Tsai, W. Handel, and D. Skultety.** 2015. Wetland delineation report: CH 9 (Backbone Road) over Big Bureau Creek, Bureau County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (27): 1-9.
- Nieset, J., S. Wiesbrook, J. Tsai, W. Handel, and D. Skultety.** 2015. Wetland delineation report: Alpine Road shared-use path, Winnebago County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (25): 1-9.
- Nieset, J., G. Geatz, and D. Szafoni.** 2016. Wetland delineation report: Great Western Trail Extension, DuPage County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (91): 1-71.
- Nieset, J., I. Kenney, and B. Zercher.** 2016. Wetland delineation report: US 12 (FAP 334) - Addendum A, Lake County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (61): 1-30.
- Nieset, J., I. Kenney, and B. Zercher.** 2016. Wetland delineation report: US 14 (FAP 66), McHenry County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (50): 1-28.
- Nieset, J., I. Kenney, and D. Skultety.** 2016. Wetland delineation report: Greater Kankakee Airport, Kankakee County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (35): 1-30.
- Nieset, J., J. Tsai, V. Sivicek, and B. Zercher.** 2016. Wetland delineation report: Ballard Road (FAU 1319), Cook County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (60): 1-16.
- Nieset, J., J. Tsai, J. Colon-Ruiz, and B. Zercher.** 2017. Wetland delineation report: IL 1 (FAP 332) Addendum C, Iroquois County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2017 (53): 1-14.
- Nieset, J., J. Tsai, W. Handel, T. Tweddale, and D. Skultety.** 2017. Wetland delineation report: US 34 (FAP 313), Henderson County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2017 (77): 1-121.
- Nieset, J., S. Wiesbrook, B. Zercher, and V. Sivicek.** 2017. Wetland delineation report: Hamilton Road Extension, McLean County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2017 (3): 1-28.
- Nieset, J., S. Wiesbrook, S. McIntyre, J. Colon-Ruiz, and B. Zercher.** 2017. Wetland delineation report: IL 1 (FAP 335) over Embarras River Overflow, Lawrence County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2017 (92): 1-30.
- Nieset, J., S. Wiesbrook, G. Geatz, B. Zercher, J. Colon-Ruiz, and S. McIntyre.** 2017. Wetland delineation report: IL 1 from US 50 to Crawford County line, Lawrence County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2017 (115): 1-220.
- Nieset, J., D. Keene, D. Ketzner, B. Zercher, and L. Carr.** 2018. Wetland determination report: FAI 74 (I-74), Champaign and Vermilion Counties, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2018 (47): 1-125.
- Nieset, J., D. Ketzner, I. Kenney, J. Grauer-Gray, A. Olnas, B. Zercher, and S. Wiesbrook.** 2018. Wetland determination report: IL 22 (FAP 337) - Addendum E from Quentin Road to west of IL 83, Lake County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2018 (65): 1-251.
- Nieset, J., I. Kenney, and B. Zercher.** 2018. Wetland determination report: IL 56 (FAP 573) at Hanks Road - Addendum C, Kane County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2018 (33): 1-38.
- Nieset, J., J. Grauer-Gray, S. Wiesbrook, and T. Tweddale.** 2018. Wetland determination report: CH 26 (FAS 1658) over Mount Branch, Clark County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2018 (102): 1-31.

- Nieset, J., S. Wiesbrook, L. Carr, and C. Hickman.** 2018. Wetland determination report: Deerfield Road (FAU 1257) over US 41, Lake County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2018 (98): 1-98.
- Nieset, J., S. Wiesbrook, S. McIntyre, J. Colon-Ruiz, and J. Adomaitis.** 2018. Wetland determination report: 1420 North Road (FAS 2821) over branch of Elm River, Wayne County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2018 (67): 1-19.
- Nieset, J., D. Williamson, and T. Tweddale.** 2019. Wetland determination report: Forest Way Drive (CH92W), Cook County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2019 (72): 1-29.
- Nieset, J., I. Kenney, B. Zercher, J. Adomaitis, and L. Carr.** 2019. Wetland determination report: I-57 (FAI 57) at Pauling Road, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2019 (49): 1-45.
- Nieset, J., I. Kenney, J. Adomaitis, and D. Williamson.** 2019. Wetland determination report: West Main Street (FAU 7386) over Stevens Creek, Macon County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2019 (29): 1-17.
- Nieset, J., S. Wiesbrook, A. Olnas, and J. Adomaitis.** 2019. Wetland determination report: 800E (FAS 806) over Raccoon Creek, Lawrence County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2019 (17): 1-25.
- Nieset, J., S. Wiesbrook, and J. Adomaitis.** 2019. Wetland determination report: Taylor Road (FAU 7426) over Ward Branch Creek, Macon County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2019 (22): 1-19.
- Nieset, J., S. Wiesbrook, T. Tweddale, L. Carr, and J. Adomaitis.** 2019. Wetland determination report: Kickapoo Trail Addendum D, Champaign County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2019 (42): 1-154.
- Nieset, J., D. Williamson, and J. Adomaitis.** 2020. Wetland determination report: County Road 300E (TR 82) over Big Creek, Hamilton County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2020 (20): 1-17.
- Nieset, J., D. Williamson, C. Hickman, and J. Adomaitis.** 2020. Wetland determination report: Old Ripley Road (CH 22) over Dry Fork Creek, Bond County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2020 (81): 1-14.
- Nieset, J., D. Williamson, E. Miernicki, S. McIntyre, B. Zercher, L. Carr, E. Janssen, A. Olnas, S. Jog, S. Wiesbrook, and P. Marcum.** 2020. Wetland determination report: Interstate 57 (FAI 57) at IL 149, Franklin County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2020 (53): 1-178.
- Nieset, J., I. Kenney, T. Tweddale, and L. Carr.** 2020. Wetland determination report: Eldamain Road from River Road to IL 71, Kendall County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2020 (45): 1-39.
- Nieset, J., S. Wiesbrook, and J. Adomaitis.** 2020. Wetland determination report: Licksillet Road (TR 51), Piatt County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2020 (65): 1-21.
- Nieset, J., S. Wiesbrook, J. Adomaitis, and E. Janssen.** 2020. Wetland determination report: IL 53 (FAP 342), Cook County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2020 (13): 1-291.
- Nieset, J., E. Miernicki, B. Zercher, and J. Adomaitis.** 2021. Wetland determination report: IL 64 (FAP 17) over Tributary to Kishwaukee River, DeKalb County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2021 (38): 1-22.
- Nieset, J., E. Miernicki, J. Adomaitis, and T. Tweddale.** 2021. Wetland determination report: Interstate 57 (FAI 57), Marion County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2021 (1): 1-104.
- Nieset, J., E. Miernicki, P. Marcum, and J. Adomaitis.** 2021. Wetland determination report: IL 18 (FAP 653) over Illinois River, Marshall and Putnam Counties, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2021 (31): 1-40.
- Nieset, J., I. Kenney, and J. Adomaitis.** 2021. Wetland determination report: Canaville Road (TR 573) over South Fork Saline River, Williamson County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2021 (46): 1-15.
- Nieset, J., S. Wiesbrook, J. Adomaitis, E. Janssen, E. Miernicki, S. McIntyre, and P. Marcum.** 2021. Wetland

- determination report: IL 53 Addendum A, Cook County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2021 (25): 1-293.
- Nieset, J.,** E. Miernicki, M. Finzel, J. Zinnen, C. Hickman, and L. Carr. 2022. Wetland determination report: FAS 806 (600 E) over Eagle Branch, Lawrence County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2022 (53): 1-19.
- Nieset, J.,** I. Kenney, and C. Hickman. 2022. Wetland determination report: Old US 51 (FAP 322), Marion County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2022 (69): 1-32.
- Nieset, J.,** I. Kenney, D. Williamson, A. Olnas, B. Zercher, M. Finzel, S. McIntyre, and J. Adomaitis. 2022. Wetland determination report: Interstate 94 (FAI 94), Cook County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2022 (27): 1-315.
- Nieset, J.,** I. Kenney, S. McIntyre, E. Janssen, T. Tweddale, and J. Adomaitis. 2022. Wetland determination report: IL 76 (FAP 754) over Beaver Creek, Boone County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2022 (42): 1-21.
- Nieset, J.,** S. Wiesbrook, and J. Adomaitis. 2022. Wetland determination report: TR 387 over Matney Branch, Shelby County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2022 (5): 1-13.
- Nieset, J.,** D. Williamson, C. Hickman, and E. Janssen. 2023. Wetland determination report: Sangamon Valley Trail Extension, Sangamon County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (28): 1-70.
- Nieset, J.,** E. Miernicki, E. Janssen, and J. Adomaitis. 2023. Wetland determination report: IL 13 (FAP 331) over Big Muddy River, Jackson County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (16): 1-26.
- Nieset, J.,** E. Miernicki, J. Zinnen, and J. Adomaitis. 2023. Wetland determination report: US 50 (FAP 327) over Muddy Creek, Lawrence County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (61): 1-27.
- Nieset, J.,** I. Kenney, B. Zercher, and E. Janssen. 2023. Wetland determination report: I-64 (FAI 64) over the Wabash River, White and Posey, IN Counties, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (63): 1-184.
- Nieset, J.,** I. Kenney, E. Janssen, T. Tweddale, and J. Adomaitis. 2023. Wetland determination report: TR 55/FAS 850, Monroe County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (18): 1-41.
- Nieset, J.,** S. Wiesbrook, and B. Zercher. 2023. Wetland determination report: Race Track Road (FAS 2791) over Tributary to Raccoon Creek, Marion County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (48): 1-28.
- Nieset, J.,** S. Wiesbrook, B. Zercher, and E. Janssen. 2023. Wetland determination report: TR 10 over Shirley Creek, Lawrence County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (29): 1-22.
- Nieset, J.,** D. Williamson, J. Adomaitis, and I. Kenney. 2024. Wetland determination report: Iron Bridge Road Extension (FAU 8153), Sangamon County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (94): 1-26.
- Nieset, J.,** D. Williamson, T. Tweddale, I. Kenney, and S. McIntyre. 2024. Wetland determination report: Sidewalks, City of Flora, IL, Clay County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (61): 1-59.
- Nieset, J.,** H. Dermott, I. Kenney, and B. Zercher. 2024. Wetland determination report: Moore Cemetery Road (TR 205), Macoupin County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (79): 1-18.
- Nieset, J.,** H. Dermott, I. Kenney, and J. Adomaitis. 2024. Wetland determination report: US 67 (FAP 354/FAU 8790), Jersey County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (77): 1-55.
- Nieset, J.,** H. Dermott, I. Kenney, C. Hickman, J. Adomaitis, and S. McIntyre. 2024. Wetland determination report: South Otterville Road (CH 9 - FAS 749), Jersey County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (78): 1-63.
- Nieset, J.,** I. Kenney, and B. Zercher. 2024. Wetland determination report: Illinois 1 (FAP 332) over CSX

Railroad, Clark County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (52): 1-44.

- Nieset, J., I. Kenney, B. Zercher, and J. Adomaitis.** 2024. Wetland determination report: IL 127 (SBI 127) over Beaver Creek, Bond County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (18): 1-25.
- Nieset, J., I. Kenney, D. Williamson, and B. Zercher.** 2024. Wetland determination report: County Road 2100 N (TR 109) over Endsley Creek, Wayne County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (43): 1-37.
- Nieset, J., I. Kenney, P. Marcum, T. Tweddale, and J. Adomaitis.** 2024. Wetland determination report: Murphysboro Road (TR 313), Randolph County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (82): 1-18.
- Nieset, J., I. Kenney, S. Wiesbrook, M. Finzel, and C. Hickman.** 2024. Wetland determination report: County Road 100 E (TR 36) over Beaver Creek, White County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (22): 1-49.
- Nieset, J., S. Wiesbrook, and B. Zercher.** 2024. Wetland determination report: IL 1 (FAP 335) over Embarras River Overflow, Lawrence County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (14): 1-30.
- Nieset, J., S. Wiesbrook, E. Janssen, M. Finzel, J. Adomaitis, J. Zinnen, B. Aleladia, and P. Marcum.** 2024. Wetland mitigation monitoring report: Wabash Cannonball Road, 2024 year, Lawrence County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (116): 1-30.
- Nieset, J., S. Wiesbrook, M. Finzel, B. Zercher, and I. Kenney.** 2024. Wetland determination report: Seminary Lane (TR 293) over Big Branch of Bonpas Creek, Richland County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024 (25): 1-59.

Primary Author – Monitoring Reports, May 2012-July 2024

- Nieset, J., G. Geatz, V. Sivicek, and B. Zercher.** 2012. Wetland mitigation monitoring report: The Morris Wetland Bank: 2012 Monitoring Report, Grundy County, Illinois. INHS/IDOT Wetlands Vegetative and Soils Program Report 2012 (101): 1-38.
- Nieset, J., G. Geatz, and B. Zercher.** 2014. Wetland mitigation monitoring report: The Morris Wetland Bank, 2013 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (4): 1-38.
- Nieset, J. and D. Skultety.** 2014. Wetland mitigation monitoring report: US 30 from US 45 to IL 43, 2013 year, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (13): 1-37.
- Nieset, J. and D. Skultety.** 2014. Wetland mitigation monitoring report: US 30 from Williams St. to US 45, 2013 year, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2014 (11): 1-22.
- Nieset, J., P. Marcum, W. Handel, B. Beas, and D. Skultety.** 2015. Wetland mitigation monitoring report: US 30 from Williams St. to US 45, 2014 year, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (7): 1-31.
- Nieset, J., G. Geatz, and B. Zercher.** 2015. Wetland mitigation monitoring report: The Morris Wetland Bank, 2014 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (2): 1-38.
- Nieset, J., W. Handel, and D. Skultety.** 2015. Wetland mitigation monitoring report: US 30 from US 45 to IL 43, 2014 year, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2015 (9): 1-54.
- Nieset, J., G. Geatz, B. Zercher, B. Wilm, and W. Handel.** 2016. Wetland mitigation monitoring report: Morris Wetland Bank, 2015 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (3): 1-43.
- Nieset, J., S. McIntyre, and D. Skultety.** 2016. Wetland mitigation monitoring report: IL 56 from IL 59 to Winfield Road, 2015 year, DuPage County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (7): 1-61.
- Nieset, J., and D. Skultety.** 2016. Wetland mitigation monitoring report: US 30 from Williams St. to US 45, 2015 year, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (1):

1-34.

- Nieset, J.,** and D. Skultety. 2016. Wetland mitigation monitoring report: US 30 from US 45 to IL 43, 2015 year, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2016 (5): 1-58.
- Nieset, J.,** and D. Skultety. 2017. Wetland mitigation monitoring report: US 30 from Williams St. to US 45, 2016 year, Will County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2017 (7): 1-35.
- Nieset, J.,** G. Geatz, and B. Zercher. 2017. Wetland mitigation monitoring report: Morris Wetland Bank, 2016 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2017 (2): 1-43.
- Nieset, J.,** G. Geatz, and B. Zercher. 2018. Wetland mitigation monitoring report: Morris Wetland Bank, 2017 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2018 (10): 1-43.
- Nieset, J.,** J. Tsai, V. Sivicek, and B. Zercher. 2018. Wetland mitigation monitoring report: Herrin to Johnston City Road Site, 2017 year, Williamson County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2018 (16): 1-69.
- Nieset, J.,** D. Keene, J. Grauer-Gray, and B. Zercher. 2019. Wetland mitigation monitoring report: Herrin to Johnston City Road Site, 2018 year, Williamson County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2019 (6): 1-73.
- Nieset, J.,** J. Grauer-Gray, and B. Zercher. 2019. Wetland mitigation monitoring report: Morris Wetland Bank, 2018 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2019 (2): 1-43.
- Nieset, J.,** D. Williamson, and B. Zercher. 2020. Wetland mitigation monitoring report: Morris Wetland Bank, 2019 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2020 (5): 1-45.
- Nieset, J.,** D. Williamson, B. Zercher, L. Carr, S. Jog, and J. Bried. 2020. Wetland mitigation monitoring report: Herrin to Johnston City Road Site, 2019 year, Williamson County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2020 (7): 1-74.
- Nieset, J.,** D. Williamson, and B. Zercher. 2021. Wetland mitigation monitoring report: Morris Wetland Bank, 2020 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2021 (3): 1-47.
- Nieset, J.,** E. Miernicki, and B. Zercher. 2021. Wetland mitigation monitoring report: Herrin to Johnston City Road Site, 2020 year, Williamson County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2021 (8): 1-76.
- Nieset, J.,** D. Williamson, and B. Zercher. 2022. Wetland mitigation monitoring report: Morris Wetland Bank, 2021 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2022 (7): 1-49.
- Nieset, J.,** I. Kenney, and B. Zercher. 2022. Wetland mitigation monitoring report: Herrin to Johnston City Road Site, 2021 year, Williamson County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2022 (10): 1-77.
- Nieset, J.,** D. Williamson, and B. Zercher. 2023. Wetland mitigation monitoring report: Morris Wetland Bank, 2022 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (5): 1-49.
- Nieset, J.,** I. Kenney, B. Zercher, and L. Carr. 2023. Wetland mitigation monitoring report: Former Tiernan Property, 2022 year, St. Clair County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2023 (6): 1-37.
- Nieset, J.,** D. Williamson, and B. Zercher. 2024. Wetland mitigation monitoring report: Morris Wetland Bank, 2023 year, Grundy County, Illinois. INHS/IDOT Wetlands Vegetation and Soils Program Report 2024: 1-52.

In addition to the technical reports listed above, I have also co-authored an additional 179 IDOT technical reports on wetland delineations, wetland monitoring, and wetland mitigation site assessments. In all, I have authored or co-authored over 282 IDOT technical reports (over 103 as the primary author).

COMMITTEE SERVICE AND WORKING GROUPS PARTICIPATION

- INHS Wetland Science Program website update committee (2022 – present)
- PRI AI/ML Working Group (2023 – present)
- PRI Education Outreach Working Group (2023 – present)
- PRI Water Quality Working Group (2023-present)
- Volo Bog RAMSAR designation working committee (2023 – present)
- INHS Ad Hoc state per diem review committee (2022-2023)
- ICT Wetland Mitigation Study and Grant working group (2023)
- INHS Wetland Science Program Wetland Plant Ecologist Hiring Committee (2022)
- Chair, Wetland Plant Ecologist Search Committee, Wetland Science Program (2019)
- Member, GIS Specialist Search Committee, Wetland Science Program (2019)

PROFESSIONAL ORGANIZATION SERVICE

- Illinois State Representative of the North Central Chapter (NCC) of the Society of Wetland Scientists (SWS) (2021– present)
- Regional Coordinator for SWS Wetlands of Distinction (WoD) program, a national program with a goal of fostering public awareness and promoting wetland education through an online database and showcase of top-tier wetlands throughout the country. (2015 – present)
- SWS WoD Executive Committee (2021 – 2022)
- Immediate Past President of the ten state North Central Chapter (NCC) region (June 2019 – June 2021); President (June 2017 – June 2019); President-Elect and Program Chair for NCC, 2015-2017; NCC Secretary-Treasurer and Membership Chair, 2013-2015

PROFESSIONAL PRESENTATIONS

- **Nieset, J.**, Molano-Flores, B., McIntyre, M., Dickerson, P., and C. Dietrich. “The Role of Transportation Corridors in Conservation. Poster Presentation. Botanical Society of America. Poster Presentation.” June 2024.
- **Nieset, J.**, Miernicki, E., Janssen, E., and S. Wiesbrook. 2024. “Developing state ‘wetland restoration potential’ mapping that reflects variation in watershed characteristics.” Poster Presentation. PRI Symposium (Jan 2024) and Wisconsin Wetlands Association Science Conference (Feb 2024).
- **J. Nieset.** Guest lecturer UIUC NRES 420 Restoration Ecology - Nov 8, 2023.
- **Nieset, J.**, Skultety, D., Wilm, B., and L. Sass. “Wetland delineation and monitoring in Illinois: a compilation of 28 years of data and counting.” Poster presented at the Wisconsin Wetland Association Science Conference, February 2016, Green Bay, WI.
- **Nieset, J.**, Engelhardt, M.J., Sivicek, V.A., Wilm, B., and B. Zercher. “Floodplain wetland restoration: comparing two large wetland mitigation banks along the Illinois River.” Poster presented at the Wisconsin Wetland Association Conference, February 2014, Lacrosse, WI; Prairie Research Institute Lightning Symposium, March 2014, Champaign, IL; Society Wetland Scientists North Central Chapter Annual Meeting, October 2014, Carbondale, IL.

OUTREACH ACTIVITIES

- **J. Nieset.** Led Spring Ecology Walk for the public, Busey Woods, Urbana Park District, April 2024.
- INHS/INPS outreach at the Parkland College Native Plant Festival, May 2024.
- **J.Nieset** and G. Hardebeck. STEM workshop on wetland fauna for D.R.E.A.A.M. middle school students.2024
- **J.Nieset** and G. Hardebeck. “Getting Bogged Down in ‘Fentastic’ Ireland. Virtual program for Volo Bog State Natural Area. October 2024.
- **J. Nieset** and M. Finzel. October 2023. Weaver Park hike and talk for Climate Action Week, Urbana Park District.
- **J, Nieset** and I. Kenney. April 2023. Explore Wetlands with the INHS Wetland Science Group. ‘Earth Day for Everyone’ event at Meadowbrook Park. Urbana Park District.

- **J. Nieset** and G. Hardebeck. November 2022. Part II “Trees are Recycling Powerhouses” for 4-H Mixed Clovers Club (Part I was November 2021). Participants transplanted persimmon seedling from cone-tainers that they had planted seeds in Part I to larger containers.
- **J. Nieset**. Presented: “Wetland Wonders” and “The Dater School Wetland Construction Story”. November 2022. Dater Montessori Nature Center Education Event. Cincinnati, Ohio.
- **J. Nieset** and E. Miernicki. April 2022. Explore Wetlands with the INHS Wetland Science Group. ‘Earth Day for Everyone’ event at Meadowbrook Park. Urbana Park District.
- Coordinated INHS Seminar to have Dr. Kongso Edith Wiyahnyuy from University of Bamenda, Cameroon: [Wetland Management in Cameroon: Challenges and Prospects - Illinois Media Space](#) The Maryland Board of Public Works wrote an article about the presentation on their “The Wetlands Web”: [Pages - The Wetlands Web \(maryland.gov\)](#)
- Wetland talks and hike at Weaver Park. YouTube video (filmed and edited by Kuldeepa Mehta): [Wetlands talks and Hike at weaver park - YouTube](#)
- Testing water filters during wetlands week April 2022 (filmed and edited by K. Mehta): [Testing water filters during Wetlands week April 2022 - YouTube](#)
- **J. Nieset**, G. Hardebeck and K. Mehta, November 8, 2021. “Trees are Recycling Powerhouses, Part I” for 4-H Mixed Clovers Club. Participants learned about tree nutrient cycles, used a food mill to separate persimmon (*Diospyros virginiana*) seeds from pulp, planted persimmon seeds in cone-tainers, collected and pressed leaves from various trees to complete an exhibit displayed as part of the UIUC Asian American Cultural Center’s ‘Inspired by Nature’ art exhibit from November 2021 – January 2022.
- Assisted Champaign County Soil and Water Conservation District (CCSWCD) staff for educational outreach event at Barnhart Prairie restoration site. August 24, 2021.
- **Nieset, J.** Led Wetland Ecology hike and *Asclepias incarnata* planting at St. Joseph Wetland Educational Outreach Event in collaboration with the Champaign County Soil and Water Conservation District, July 10, 2021.
- **Nieset, J.**, E. Miernicki, L. Carr and K. Carr. 2021. Wetland Wonders virtual program at Urbana Free Library, Urbana, IL. April 24, 2021.
- Presentation about Wetlands for the Youth Meet gathering of Virtual Cultural Earth Day Celebration organized by Ascending Aesthetic Eco-Arts for Earth Week, April 20, 2021.
- Presentation about Wetlands for Virtual Cultural Earth Day organized by Ascending Aesthetic and UIUC Spurlock Museum, April 18, 2021.
- Demonstration and planting for enhancing rain garden and prairie at Boneyard Creek Second Street Basin, Champaign, IL, as part of Ascending Aesthetic Earth Week, April 17, 2021.
- **Nieset, J.**, “Wetland Plants Help Clean Water” as part of U.N. Water Day activities with the National Great Rivers Research and Education Center. Led 8 half-hour virtual sessions for Illinois 5th graders. March 22-23, 2021.
- **Nieset, J.** 2020. Led Plant ID walk at Weaver Park, Urbana, IL. Supporting the Society of Wetland Scientists Student Chapter at UIUC September 26, 2020.
- Organized a walk at St. Joseph Wetland to discuss potential restoration enhancement with state and federal staff and others. December 16, 2020.
- Co-led “Common yard food plants” with Kuldeepa Mehta for Earth Week Meets series on Zoom: Violets, dandelion, redbud, blueberries, serviceberry, quince, and strawberry flowers for kids to observe, draw, and learn. April 30, 2020.
- **Nieset, J.** 2019. Native Plant Hike supporting the Urbana Park District Bioblitz. Gave advice to UPD in the coordination of vegetation data collection, identified plant species in the field and submitted observations in INaturalist. September 27-28, 2019.
- Making and using ink from plants. October 20, 2019. 4-H program for the 4-H Explorers club, Urbana IL.
- Dyeing wool fibers with plant dyes. September 15, 2019. 4-H program for the 4-H Explorers club, Urbana IL.
- **Nieset, J.** 2019. Exploring *Asteraceae* – Half-Day Plant Identification Workshop and Hike. Open to the public, supporting the UIUC Student Association of SWS NCC. September 7, 2019.
- Wetland Wonders program at Urbana Free Library. Collaborated with staff from INHS and ISGS. April 7, 2019.

- **Nieset, J.**, 2018. Cultural and ecological importance of native Midwestern plants, highlighting nine plants. UIUC Spurlock Summer Sundays program. Exhibit and program. August 26, 2018.
- **Nieset, J.** “Seed Saving I: Collecting native plant seeds at the UIUC Pollinarium prairie”. Talk, hike, and seed collection for local Master Naturalists and Master Gardeners. August 2016, Urbana, IL.
- **Nieset, J.**, Wiesbrook, S., and S. McIntyre. “Illinois Natural History Survey Wetland Science Program presents Wetland Wonders.” Urbana Free Library family program, Urbana, IL, February 2016.
- **Nieset, J.**, Skultety, D., Wilm, B., and L. Sass. “Wetland delineation and monitoring in Illinois: a compilation of 28 years of data and counting.” Poster presented at the Wisconsin Wetland Association Conference, February 2016, Green Bay, WI.
- **Nieset, J.**, McIntyre, S., Tsai, J., Geatz, G., and I. Kenney, I. “Wetland Plant and Soil Adaptations.” Naturally Illinois Expo. Prairie Research Institute, Champaign, Illinois. April 2015. Exhibit.
- **Nieset, J.**, Miller, A., Bone, T., and Smith, R. “Bryophyte Bonanza.” Naturally Illinois Expo. Prairie Research Institute, Champaign, Illinois. April 2015. Exhibit.
- **Nieset, J.** “Wetland Food Webs” and “Wetland Plants.” Dater Montessori school ‘Coyote Nature Camp’. Cincinnati, Ohio. June 2015. Oral presentation.
- **Nieset, J.**, Vonderhaar, S., and Hardebeck, G. “The Dater Montessori School Wetland Story.” Wisconsin Wetland Association Conference, February 2015, Madison, WI. Poster Presentation.
- **Nieset, J.** “Wetland Food Webs” and “Wetland Plants.” Dater Montessori school ‘Powered by Nature Camp’. Cincinnati, Ohio. June 2014. Oral presentation.

SPECIAL PROJECTS

- Spearheaded and collaborated with local groups for “Celebrate Wetlands Month” programming April 2022, 2023, and 2024. Events included public programs (spring wetland ecology hike, wetland photography display, land management activities at volunteering at parks). Programming for local elementary students and homeschool group of pre-K – middle school students. Collaborators, which have developed / increased during these years include: Urbana Park District, Ascend Art 360, Champaign County Forest Preserve District, Urbana School District #116, Society of Wetland Scientists, PRI INHS, ISWS, ISTC, UIUC Dept. of Entomology, Carl R. Woese Institute for Genomic Biology., and PRI Center for Paleontology.
- Initiated and coordinated a schoolyard wetland project at Dater Montessori School, Cincinnati, Ohio, completed September 2012. Students assisted with wetland construction and rotated through five stations to learn about aspects of wetland ecology and watershed issues. Recruited financial and in-kind donations to cover costs and supplies. This wetland continues to be an important outdoor teaching aid in an urban community.

Additional tasks in support of the INHS Wetlands Program

- Co-organized ISGS and INHS wetland field visit at Weaver Park wetland (2023) and Vermilion County seeps (2024) for professional development activities
- Initiated conversations with USFWS, ISGS, IDNR, INHS, IDOT regarding umbrella wetland and stream mitigation banking at USFWS Cypress Creek NWR
- Attend meetings (e.g., IDOT program development environmental meeting in Springfield and virtually attended USEPA Region 5 Wetland Meeting) – 2023 and 2024
- On-boarding tasks for hiring of hourly workers. Mentored and coordinated work tasks with junior employees
- Provided advice and assistance to other staff as needed, this included evaluating 800 species of Illinois wetland flora for a co-worker/graduate student IL Rapid Floristic Quality Assessment project
- Created and delivered presentation “Determining Waters Types for IDOT Projects” for INHS wetlands staff professional development
- Gathered information about 2023 WOTUS Rule and SCOTUS Sackett wetlands decision.
- Mentored junior staff on aspects of environmental surveys and reporting as well as educational outreach

- 2023 Roadside Prairie surveys: Co-surveyed 26 sites; led / entered data for 12 of those sites.
- Continued research for predicting suitable sites for wetland restoration, utilizing INHS wetlands data for optimal algorithm verification and leading to abstract submittal and acceptance for poster presentations at the following for 2024: Wisconsin Wetlands Association Wetlands Science Conference (Feb 2024) and PRI Lightning Symposium (Jan 2024).
- Preliminary spatial analysis of land suitable for wetland mitigation in St. Clair and Madison Counties, Illinois (2022)
- Represented INHS at Nygren Wetland Preserve’s “Party on the Prairie” fundraising event. July 2022.
- Other tasks as needed (e.g. reviews of templates)

CONTINUED EDUCATION

- UIUC GGIS 403 Geographic Information Science and Systems – online (2024)
- Cyperaceae & Juncaceae Workshop. Nahant Marsh with Drs. Tom Rosburg and Bill Norris (2024)
- Grasses, Sedges & Rushes. University of Wisconsin – La Crosse, WI. (2023)
- Grasses, Sedges, & Rushes. Institute of Botanical Training, Gray Summit, MO. (2023)
- UIUC NRES 455 Adv GIS for Environmental Management – online, evening course (2023)
- UIUC NRES 454 GIS in Natural Resource Management – online, evening course (2022)
- Rothrock Sedge Symposium. Indiana Academy of Science (2022)
- The Morton Arboretum Grass Identification and Ecology Workshop (2014)
- Completed UIUC Hort 598 course– Native Plants for Landscapes (2014)
- Applied Fluvial Geomorphology. Rosgen Level I Stream Restoration Course (2010)
- River Morphology and Applications. Rosgen Level II Stream Restoration Course (2010)
- NEPA Needs and Purpose Workshop, Ohio Department of Transportation (ODOT) (2010)
- Waterways Permits Training, ODOT (2010)
- Ecological Training, ODOT (2010)
- Fish Sampling Techniques Workshop, Ohio State University Stone Laboratory (2010)
- Richard Chinn 38-Hour Army Corp of Engineers Wetland Delineation and Management Training Program (2007)
- Healthy Water, Healthy People Educators Training, Ohio Environmental Protection Agency (OEPA) (2004)
- Ohio Rapid Assessment Method for Wetlands (ORAM) v. 5.0, OEPA, Division of Surface Water (2004)
- Basics of Forested Wetland and Construction, Wetland Training Institute (2008)
- Qualitative Habitat Evaluation Index (QHEI) Stream Assessment Protocol, OEPA, (2008)
- Headwater Habitat Evaluation Index (HHEI) Stream Assessment Protocol, OEPA, (2009)
- Wetland Biocriteria Training: Sampling and Data Analysis for Floral and Faunal IBI’s, OEPA (2008)
- The Planning of Wetlands, Environmental Concern, Inc. (2009)
- Bat Conservation and Management Workshop, Bat Conservation International, six-day/five-night course (2008)
- Introduction to ArcGIS I and II, v 9.2, ESRI, Inc., Instructor-Led Training (2008)
- Permaculture Design 80-hour Certification course, International Institute of Ecological Agriculture (2004)
- Master Rain Garden Certification, Cincinnati State Technical and Community College (2008)
- Pheasants Forever Aldo Leopold Educators Training (2004)
- Attended Advanced Naturalist weekend workshops at Cincinnati Museum Center, Edge of Appalachia Preserve, Ohio (2008-2009): Native Bees, Crayfish, Plant Galls, Earthworms, Flower Flies, Freshwater Mussels, Fungi
- Advanced Project Management. GAI University (2011)

PROFESSIONAL MEMBERSHIPS:

- Society of Wetland Scientists (SWS), Life Member
- Ohio Ecological Food and Farm Association, Life Member
- Great Rivers and Lakes Permaculture Institute, Board Member
- National Association of Wetland Managers
- Grand Prairie Friends
- Illinois Native Plant Society
- Seed Savers Exchange
- Botanical Society of America