

Michael T Talbot

Education

- MS, Bioproducts & Biosystems Science, Eng., and Mgmt.** 2019
University of Minnesota, Twin Cities
Thesis: Comparison of Evapotranspiration Estimation Methods and Implications for Water Balance Model Parameterization in the Midwestern United States
- BBAE, Biosystems & Agricultural Engineering** 2009
University of Minnesota, Twin Cities

Professional Experience

- Water Resources Engineer** 2013-present
Emmons & Olivier Resources, Inc.
St. Paul, MN
- Graduate Research Assistant** 2010-2013
Department of Bioproducts and Biosystems Engineering
University of Minnesota
- Graduate Research Contractor** 2010
United States Geological Survey
Minneapolis, MN
- Undergraduate Research Assistant** 2005-2009
Department of Biosystems and Agricultural Engineering
University of Minnesota
- Visiting Research Assistant** 2009
Department of Civil Engineering
Czech Technical University (ČVUT), Prague, Czech Republic

Publications

Peer-reviewed:

1. **Talbot MT**, McGuire O, Olivier C, Fleming R. 2016. Parameterization and Application of Agricultural Best Management Practices in a Rural Ontario Watershed Using PCSWMM. *Journal of Water Management Modeling*. doi:10.14796/JWMM.C400
2. Sands GR, Canelon D, **Talbot M**. 2015. Developing optimum subsurface drainage design procedures. *Acta Agriculturae Scandinavica, Section B — Soil & Plant Science*. 65(sup1):121–127. doi:10.1080/09064710.2014.997788.

In preparation:

1. **Talbot MT**, Sands GR, Coulter JA, Peterson JR. Evapotranspiration Estimation in the Midwestern United States: Part I. Comparing Commonly Used Reference ET Methods. Journal of the ASABE.
2. **Talbot MT**, Sands GR, Coulter JA, Peterson JR. Evapotranspiration Estimation in the Midwestern United States: Part II. Assessing Impacts on DRAINMOD Model Predictions. Journal of the ASABE.
3. **Talbot MT**, Correll C, Voje S, Nation P. Evaluation of a GIS-Based Flood Hazard Assessment in Rochester, Minnesota. Journal of Water Management Modeling.

Contributions and Acknowledgements:

1. Capel PD, McCarthy KA, Coupe RH, Grey KM, Amenumey SE, Baker NT, Johnson RL. 2018. Agriculture — A river runs through it — The connections between agriculture and water quality. Reston, VA: U.S. Geological Survey Circular Report No.: 1433. <http://pubs.er.usgs.gov/publication/cir1433>.
2. Emmons & Olivier Resources, Inc. Thunder Bay Stormwater Management Plan for Sustainable Surface Water Management. Apr 2016. <https://www.thunderbay.ca/en/city-services/resources/Documents/Stormwater-Management-Plan-for-web---Vol1.pdf>
3. Lenhart CF, Titov ML, Ulrich JS, Nieber JL, Suppes BJ. 2013. The Role of Hydrologic Alteration and Riparian Vegetation Dynamics in Channel Evolution along the Lower Minnesota River. Transactions of the ASABE. 56(2):549.

Other (not peer-reviewed):

1. **Talbot MT**, Sands G, Coulter J. 2014. Evaluating and Estimating DRAINMOD's Effective Rooting Depth for Corn. In: ASABE Meeting Presentations. Raleigh: ASABE.

Selected Presentations

1. **Talbot MT**, Isensee M, Pynn B. Improving Remote Collaboration while Lowering Costs: A Case Study in Prioritization and Targeting using Open Source Software. Minnesota Association of Watershed Districts Annual Conference. Virtual Meeting. Dec 1-4, 2020.
2. **Talbot MT**. Investigating the impact of ET model choice for DRAINMOD in the upper Midwest. Midwest Drainage Research Forum. Virtual Meeting. Dec 1, 2020.
3. **Talbot MT**. Locating and Evaluating the Costs and Benefits of Urban LID Retrofits. Environmental & Water Resources Institute World Environmental & Water Resources Congress. Minneapolis, MN. June 3-7, 2018.
4. **Talbot MT**. What to do when your lidar is out of date: a modeling perspective. 51st Annual International Conference on Water Management Modeling. Brampton, ON. Feb 28, 2018.
5. **Talbot MT**, Perera N. Locating and Evaluating the Costs and Benefits of Urban LID Retrofits. 51st Annual International Conference on Water Management Modeling. Brampton, ON. Feb 28, 2018.

6. Naber JN, Ulrich JS, **Talbot MT**. Modeling the Influences of Riverine Hydrology on Near-Channel Nesting Habitat for State-Listed Turtle Species. Minnesota Water Resources Conference. St. Paul, MN. Oct 18-19, 2016.
7. Emmons BH, Correll C, **Talbot MT**, Davenport T, Vincent P. Searching for the Goldilocks Water Quality Model. 89th Central States Water Environmental Association Annual Meeting. Madison, WI. May 17-20, 2016.
8. Olivier C, **Talbot MT**. Rural Stormwater Management Model (RSWMM). 48th Annual International Conference on Water Management Modeling. Brampton, ON. Feb 25-26, 2015.
9. **Talbot MT**. Assessment of Bioretention Device Performance by Use of Water Level Recordings. Minnesota Water Resources Conference. St. Paul, MN. Oct 14, 2014.

Honors and Awards

EOR Forward! Award <i>for quality and innovative work</i> <i>Emmons & Olivier Resources, Inc.</i>	2023
MnAFPM Travel Scholarship <i>to attend the 2017 ASFPM Conference in Kansas City, MO</i> <i>Minnesota Association of Floodplain Managers</i>	2017

Teaching Experience

Teaching Assistant <i>Department of Bioproducts and Biosystems Engineering</i> <i>University of Minnesota</i> <ul style="list-style-type: none">- <i>BBE 2001: Mechanics and Structural Design</i>- <i>BBE 4013: Transport in Biological Systems II</i>	2009-2012
Physics Learning Assistant <i>Department of Physics and Astronomy</i> <i>University of Minnesota</i>	2009

Memberships

American Society of Agricultural and Biological Engineers
Association of State Floodplain Managers
Certified Floodplain Manager
American Institute of Hydrology
Hydrologist in Training