

IOWA STATE UNIVERSITY

Agricultural and Biosystems Engineering

Amy Leigh Kaleita

Professor

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Education

Ph.D. Agricultural Engineering, 2003
University of Illinois at Urbana-Champaign

M.S. Civil Engineering, 1999
University of Illinois at Urbana-Champaign

B.S. Agricultural Engineering, 1997
The Pennsylvania State University

Honors and Awards

Women Impacting ISU recognition (2014)

Gilbreth Award for Young Engineers, National Academy of Engineering (2013)

Iowa Women of Innovation finalist in post-secondary and leadership, Principal Financial Group (2013)

Young Engineer of the Year, Iowa Section (2011)

A.W. Farrall Young Educator Award, ASABE (2008)

Recent Publications

Upadhyay, P., L.O.S. Pruski, **A.L. Kaleita**, and M.L. Soupir, 2019. Effects of land management on inundation of prairie pothole wetlands in the Des Moines Lobes using AnnAGNPS. *Agricultural Water Management* 213(1): 947-956. DOI: 10.1016/j.agwat.2018.12.016

Martins, V.S., **A. Kaleita**, C.C.F. Barbosa, A.C. Fassoni-Andrade, F. de Lucia Lobo, E.M.L.M. Novo, 2019. Remote sensing of large reservoir in the drought years: Implications on surface water change and turbidity variability of Sobradinho reservoir (Northeast Brazil). *Remote Sensing Applications: Society and Environment*. 218: 55-68. DOI: 10.1016/j.rsase.2018.11.006

Brendel, C., M. Soupir, L.A. Long, M. Helmers, C. Ikenberry, and **A. Kaleita**, 2018. Impact of catchment scale hydrology and management practice implementation on phosphorus export. *Journal of Environmental Quality*. 48(1): 117-126. DOI: 10.2134/jeq2018.07.0265

Zimmerman, B.A., and **A.L. Kaleita**, 2017. Dissolved constituents in agricultural drainage water. *Transactions of the ASABE*. 60(3): 847-859. DOI: 10.13031/trans.12051

Kaleita, A., L.R. Schott, S.K. Hargreaves and K. Hofmockel, 2017. Differences in soil biological activity by terrain types at the sub-field scale in central Iowa US. *PLoS ONE* 12(7): e0180596. DOI:

Teaching

Dr. Kaleita teaches courses in soil and water conservation management and engineering, and analytical techniques for data and modeling. She also serves on the ABE engineering curriculum committee where she has been active in ABE's ABET accreditation process, and she plays a leadership role in the College of Engineering Honors Program.

Research

Dr. Kaleita's research focuses on information technology for precision conservation. Primary interests are remote sensing, hydrologic modeling, precision farming, and advanced analytical methods for understanding the influence of spatiotemporally variable soil and hydrologic properties.

Other Professional Activities

Dr. Kaleita is a member of American Society of Agricultural and Biological Engineers (ASABE), and the Alpha Epsilon and Tau Beta Pi honor societies.

