

Michelle Simon, Associate Director of Science in EPA's National Risk Management Research Laboratory

Water Systems Division

[Mailing Address](#)

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Areas of Expertise:

- EPA's Stormwater Management Model (SWMM)
- Calibrating and validating watershed and water infrastructure models
- Designing and monitoring green infrastructure

Select Publications:

Barnhart, B., H. Golden, J. Kasprzyk, J. Pauer, C. Jones, K. Sawicz, N. Hoghooghi, M. **Simon**, Bob Mckane, P. Mayer, A. Piscopo, D. Ficklin, J. Halama, P. Pettus, and B. Rashleigh. (2018). [Embedding co-production and addressing uncertainty in watershed modeling decision-support tools: Successes and challenges](#). Environmental Modelling & Software, 109:368-379.

Simon, M. and M. Tryby. (2018). [Open Source SWMM: Community - Based Software Development for Storm Water Management Modeling](#). U.S. Environmental Protection Agency, Washington, DC, EPA/600/S-18/129.

Simon, M.A. (2016) "[EPA's Summary Report of the Collaborative Green Infrastructure Pilot Project for the Middle Blue River in Kansas City, MO](#)." EPA Report EPA/600/R-16/085.

Hopton, M.; M.A. **Simon**; M. Borst; A. Garmestani; T. Jarnagin; S. Jacobs; D. Lye; T. O'Connor; W. Shuster (2015). "[Green Infrastructure for Stormwater Control: Gauging its Effectiveness with Community Partners](#)." EPA Report. EPA/600/R-15/219.

Rossman, L.; M.A. **Simon**; J. Neal; S. Panguluri; G. Silva; R. Krishnan. (2014). "[Intrusion of Soil Water through Pipe Cracks](#)" EPA Report. EPA/600/R-14/459.

Lee; J.G.; M. Borst; R.A. Brown; L. Rossman; M. A. **Simon**. (2014). "[Modeling the Hydrologic Processes of a Permeable Pavement System](#)." *Journal of Hydrologic Engineering* 20(5) 12-23.

View more publications by [Michelle Simon](#).

Education:

- PhD., The University of Arizona, Tucson, AZ; Soil, Water and Environmental Science
- M.S., Colorado School of Mines, Golden, CO; Chemical Engineering
- B.S., University of Notre Dame, Notre Dame, IN; Chemical Engineering

Professional Experience:

Workgroups and Projects

- Technical Lead of the Stormwater Management Model (SWMM)
- Safe and Sustainable Water Resources Project Lead for Green Infrastructure Modeling
- Code Developer Sub-group of the Developers Guild
- Environmental Modeling Community of Practice workgroup
- Water Modeling workgroup

Memberships and Affiliations

- Manuscript reviewer: *Journal of Environmental Engineering*, *Journal of Environmental Management*, *Journal of Contaminant Hydrology*, *Journal of Hydrology* and *Journal of Environmental Modelling and Software*
- Urban Watershed Research Stormwater Modeling Committee for the Environmental & Water Resources Institute
- Member, American Geological Union; Sigma Xi.

Awards and Honors

- U.S. EPA Bronze Medal – Safe and Sustainable Water Resources (SSWR) Project Leads, 2015
- U.S. EPA Bronze Medal – Stormwater Management Team, 2014
- U.S. EPA Bronze Medal – RAP Process, 2012
- U.S. EPA Scientific and Technological Achievement Award (STAA) Level II, 2009
- U.S. EPA STAA Honorable Mention, 2009

[Stormwater Management Model \(SWMM\) Web Page](#)