

SEAN J. BENNETT

SEPTEMBER 27, 2017

1. CONTACT INFORMATION

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2. EDUCATION

1993	Ph.D.	Geological Sciences, Binghamton University, State University of New York, Binghamton, NY
1988	M.A.	Geological Sciences, Binghamton University, State University of New York, Binghamton, NY
1985	B.S.	Geology with honors, Brooklyn College, City University of New York, Brooklyn, NY

3. RECENT EMPLOYMENT HISTORY

2016-present	Chair, Department of Geography, University at Buffalo, State University of New York, Buffalo, NY 14261-0055
2014-present	Adjunct Professor, Department of Civil, Structural, and Environmental Engineering, University at Buffalo, State University of New York, Buffalo, NY 14261-0055
2008-present	Professor, Department of Geography, University at Buffalo, State University of New York

4. RECENT PUBLICATIONS

1. Momm, H.G., R.R. Wells, and S.J. Bennett, in press, Disaggregating soil erosion processes within an evolving experimental landscape, *Earth Surface Processes and Landforms*.
2. Sansom, B.J., J.F. Atkinson, and S.J. Bennett, in press, Modulation of near-bed hydrodynamics by freshwater mussels in an experimental channel, *Hydrobiologia*.
3. Bennett, S.J., 2017, *Study 2: Recent Erosion and Deposition Processes, Task 2.2: Infiltration and Soil Moisture Determination, Task 2.5: Erodibility of Cohesive Sediment, and Task 2.6: Erodibility of Clastic Sediment in Selected Gullies, Stream Channels, and Streambanks*, West Valley Demonstration Project Erosion Working Group (S. Bennett, S. Doty, R. Fakundiny, G. Tucker, M. Wilson, and R. Young) and Enviro Compliance Solutions (M. Wolff), prepared for United States Department of Energy, and New York State Energy Research and Development Authority, March 1, 2017, 208 pp.
4. Karamigolbaghi, M., S.M. Ghaneezad, J.F. Atkinson, S.J. Bennett, and R.R. Wells, 2017, Critical assessment of Jet Erosion Test methodologies for soil and cohesive sediment, *Geomorphology*, 295, 529-536.
5. Bennett, S.J., 2016, *Study 2: Recent Erosion and Deposition Processes, Task 2.1(b) Digital Mapping of Potential Analogue Sites*, West Valley Demonstration Project Erosion Working Group (S. Bennett, S. Doty, R. Fakundiny, G. Tucker, M. Wilson, and R. Young) and Enviro Compliance Solutions (M. Wolff), prepared for United States Department of Energy, and New York State Energy Research and Development Authority, July 2, 2016, 59 pp.
6. Bennett, S.J., and R. Liu, 2016, Basin self-similarity, Hack's law, and the evolution of experimental rill networks, *Geology*, 44, 35-38, doi:10.1130/G37214.1.
7. Cao, M., S.J. Bennett, Q. Shen, and R. Xu, 2016, A bat-inspired approach to define transition rules for a cellular automaton model used to simulate urban expansion, *International Journal of Geographical Information Science*, 30, 1961-1979.
8. Gallisdorfer, M.S., S.J. Bennett, S.M. Ghaneezad, and J.F. Atkinson, 2016, Morphodynamic responses of physical-scale experimental river channels to engineered log jams for stream restoration design, *RiverFlow 2016, Eighth International Conference on Fluvial Hydraulics*, edited by G. Constantinescu, M.H. Garcia, and D. Hanes, St. Louis, MO, July 12-15, pp. 2354-2359.
9. Ghaneezad, S.M., M. Karamigolbaghi, J.F. Atkinson, and S.J. Bennett, 2016, Evaluation of turbulence closure models for the simulation of circular impinging jets, *RiverFlow 2016, Eighth International Conference on Fluvial Hydraulics*, edited by G. Constantinescu, M.H. Garcia, and D. Hanes, St. Louis, MO, July 12-15, pp. 122-130.
10. Karamigolbaghi, M., S.M. Ghaneezad, J.F. Atkinson, and S.J. Bennett, 2016, Experimental design of the submerged Jet Erosion Test for a soil erodibility evaluation, *World Environment and Water Resources Congress, Environmental & Water Resources Institute, ASCE*, May 22-26, 2016, West Palm Beach, FL, USA, pp. 343-351, doi: 10.1061/9780784479872.035.

11. Momm, H.G., R.R. Wells, S.J. Bennett, and A.L. Gilley, 2016, Image analysis for quantifying the spatiotemporal evolution of rill networks in laboratory experiments, *RiverFlow 2016, Eighth International Conference on Fluvial Hydraulics*, edited by G. Constantinescu, M.H. Garcia, and D. Hanes, St. Louis, MO, July 12-15, pp. 569-575.
12. Wells, R.R., H.G. Momm, S.J. Bennett, K.R. Gesch, S.M. Dabney, R. Cruse, and G.V. Wilson, 2016, A measurement method for rill and ephemeral gully erosion assessments, *Soil Science Society of America Journal*, 80, 203-214.
13. Bennett, S.J., P. Ashmore, and C. McKenna Neuman, 2015, Transformative geomorphic research using laboratory experimentation, *Geomorphology*, 244, 1-8.
14. Bennett, S.J., S.M. Ghaneezad, M.S. Gallisdorfer, D. Cai, J.F. Atkinson, A. Simon, and E.J. Langendoen, 2015, Flow, turbulence, and drag associated with engineered log jams in a fixed-bed experimental channel, *Geomorphology*, 248, 172-184.
15. Bennett, S.J., L.M. Gordon, V. Neroni, and R.R. Wells, 2015, Emergence, persistence, and organization of rill networks on a soil-mantled experimental landscape, *Natural Hazards*, 79, S7-S24.
16. Gallisdorfer, M.S., S.M. Ghaneezad, S.J. Bennett, J.F. Atkinson, D. Cai, A. Simon, and E.J. Langendoen, 2015, Responses of experimental river corridors to engineered log jams, *World Environmental & Water Resources Congress: Floods, Droughts, and Ecosystems, Environmental & Water Resources Institute, ASCE*, May 17-21, 2015, Austin, TX, pp. 1811-1820.
17. Ghaneezad, S.M., J.F. Atkinson, and S.J. Bennett, 2015, Effect of flow confinement on the hydrodynamics of circular impinging jets: Implications for erosion assessment, *Environmental Fluid Mechanics*, 15, 1-25.
18. Ghaneezad, S.M., J.F. Atkinson, and S.J. Bennett, 2015, Response to: "Comment on: effect of flow confinement on the hydrodynamics of circular impinging jets: implications for erosion assessment" by Spyros Beltaos, *Environmental Fluid Mechanics*, 15, 901-903.
19. Ghaneezad, S.M., M. Karamigolbaghi, J.F. Atkinson, and S.J. Bennett, 2015, Hydrodynamics of confined impinging jets and the assessment of soil erodibility, *World Environmental & Water Resources Congress: Floods, Droughts, and Ecosystems, Environmental & Water Resources Institute, ASCE*, May 17-21, 2015, Austin, TX, pp. 1742-1751.
20. Goettel, M.T., J.F. Atkinson, and S.J. Bennett, 2015, Behavior of western blacknose dace in a turbulence modified flow field, *Ecological Engineering*, 74, 230-240.
21. Langendoen, E.J., J.D. Abad, and S.J. Bennett, 2015, A multifaceted approach to prioritize and design bank stabilization measures along the Big Sioux River, South Dakota, USA, *I.S.Rivers Integrated Sciences and Sustainable Development of Rivers, 2nd International Conference*, June 22-26, 2015, Lyon, FRANCE, 3 pp.
22. Tang, Q., Y. Xu, S.J. Bennett, and Y. Li, 2015, Assessment of soil erosion using RUSLE and GIS: a case study of the Yangou watershed in the Loess Plateau, China, *Environmental Earth Sciences*, 73, 1715-1724.
23. Wells, R.R., C.V. Alonso, S.J. Bennett, R.L. Bingner, J. Casali, S.M. Dabney, L.M. Gordon, E.J. Langendoen, H.G. Momm, M.J.M. Römkens, and G.V. Wilson, 2015, USDA-ARS National Sedimentation Laboratory: A historic perspective, *Journal of Water Resource and Protection*, 7, 228-246.
24. West Valley Demonstration Project Erosion Working Group (S. Bennett, S. Doty, R. Fakundiny, G. Tucker, M. Wilson, and R. Young) and Enviro Compliance Solutions (M. Wolff), 2015, *Phase 1 Erosion Study Plan*, prepared for United States Department of Energy, and New York State Energy Research and Development Authority, June 19, 2015, 47 pp.

Google Scholar Citation Analysis, September 27, 2017: $h=32$, $i10=67$, $i100=8$, $total\ cites=3697$

5. RECENT UNIVERSITY SERVICE

Department of Geography, University at Buffalo

2016-present	Chair
2014-16	Executive Committee (elected)
2013-16	Tenure and Promotion Committee (appointed)

College of Arts and Sciences, University at Buffalo

2017	Search Committee, Director of the Interdisciplinary Degree Program (appointed)
2014-present	Member, Advisory Committee of the National Center for Geographic Information and Analysis (invited)
2006-16	College of Arts and Sciences Awards and Recognition Committee (appointed; reviewed 40 dossiers for potential awards)

- 2005-present Member, CAS Advisory Committee for the Environmental Sciences Program (appointed)
 2004-present Member, Advisory Committee for the Interdisciplinary Degree Program (appointed)

University at Buffalo

- 2016-17 Search Committee, Freshwater Sciences Cluster Area, RENEW Institute
 2016 *Ad Hoc* Committee Panelist for Excellence in Graduate Student Mentorship Award (invited)
 2016 *Ad Hoc* Committee Panelist for submissions to Innovative Micro-Programs Accelerating Collaboration in Themes (IMPACT), Physical & Engineering Research Panel, Office of the Vice President for Research (appointed)
 2015-present Faculty Senate Budget Priorities Committee (appointed)
 2013-present Member, Advisory Council, Sustainability Academy (invited)
 2012-15 President's Review Board on Appointments, Promotions and Tenure (PRB; appointed; reviewed 196 dossiers for promotion, tenure, and distinguished appointments; declined invitation for reappointment)
 2013-present Member, Advisory Council, Sustainability Academy (invited)

The State University of New York, Albany

- 2016 President's Designee, Chancellor's Advisory Committee, State University of New York (appointed by President)