

THEODORE G. CLEVELAND
Associate Professor of Civil, Environmental and Construction Engineering
Texas Tech University
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Professional Preparation

Ph. D. in Civil Engineering, University of California - Los Angeles, 1989

M.S. in Civil Engineering, University of California - Los Angeles, 1987

B.S. in Environmental Resources Engineering, Humboldt State University, 1986

Professional Chronology

Associate Professor, Texas Tech University (2008-present)

Associate Professor, University of Houston (1996-2008)

Assistant Professor, University of Houston (1990-1996)

Hydrogeologist, CH2M-Hill (1989-1990)

Research/Teaching Assistant, Civil Engineering, University of California – Los Angeles (1986-1989)

Outpost Cook, Nantahala Outdoor Center (1986)

Millwright, Mad River Woodworks (1984-1985)

Drill Sergeant, U.S. Army Reserve (1982-1983)

Clinical Medical Specialist, U.S. Army (1977-1980); U.S. Army Reserve (1980-1982)

Research Interests

Hydrologic, Hydraulic, and Contaminant Transport Modeling

Water Resource Systems Optimization

Honors/Awards

Elected to Fellow, Environmental and Water Resources Institute, ASCE (2013)

John B. Hawley Award, Texas Section, ASCE (2004)

Cullen College of Engineering, Junior Faculty Research Excellence Award (2004)

John B. Hawley Award, Texas Section, ASCE (1991)

Synergistic Activities/Committee Membership

Control group member, ASCE-EWRI Urban Water Resources Research Council (2012-present)

Website developer (www.uwrrc.org) for ASCE-EWRI UWRRRC document repository, (2008-present)

Selected Publications (Last 10 years)

De Lima, R. P., Cleveland, T. G., De Carvalho, R.P., 2014. "Infrared thermography as a heat tracer method for velocity estimation in shallow flows." *Die Bodenkultur, Journal for Land Management, Food, and Environment*, Vol 65, No. 3-4, pp. 71-77. ISSN 006-5471

Murphy, H. L., Morse, A. N., Cleveland, T.G. 2014 "Turbidity in Highway Construction Site Runoff - Preparing for Numerical Effluent Limits." *American Society of Civil Engineers, Journal of Environmental Engineering*, Vol. 140, No. 4.

Dhakal, N., Fang, X., Cleveland, T.G., Thompson, D.B. 2014 "Modified Rational Unit Hydrograph Method and Applications." Institute of Civil Engineers, Journal of Water Management, <http://www.icevirtuallibrary.com/content/article/10.1680/wama.13.00032>, pp. 1-13.

Manoj KC., Fang, X., Yi, Y-J., Ming-Han Li, M-H., Thompson, D. B., Cleveland, T.G. 2013 "Improved Time of Concentration Estimation on Overland Flow Surfaces Including Low-Sloped Planes." American Society of Civil Engineers, Journal of Hydrologic Engineering, 10.1061/(ASCE)HE.1943-5584.0000830

Dhakal, N., Fang, X., Asquith, W.H., Cleveland, T.G., Thompson, D.B. 2013. "Rate-Based Estimation of the Runoff Coefficients for Selected Watersheds in Texas." American Society of Civil Engineers, Journal of Hydrologic Engineering, Vol. 18, No. 12. pp. 1571-1580.

Asquith, W.H., Herrmann, G. R., Cleveland, T.G. 2013. "Generalized Additive Regression Models of Discharge and Mean Velocity generally associated with Direct-Runoff Conditions in Texas: The Utility of the U.S. Geological Survey Discharge Measurement Database" American Society of Civil Engineers, Journal of Hydrologic Engineering, Vol. 18, No. 10, pp. 1331-1348

Dhakal, N., Fang, X., Asquith, W.H., Cleveland, T.G., Thompson, D.B. 2012. "Return Period Adjustments for Runoff Coefficients Based on Analysis in Undeveloped Texas Watersheds." American Society of Civil Engineers, Journal of Irrigation and Drainage Engineering, Vol.139, No 6, pp 476-482.

Dhakal, N., Fang, X., Cleveland, T.G., Thompson, D.B.; Asquith, W.H., Marzen, L.J. 2012. "Estimation of Volumetric Runoff Coefficients for Texas Watersheds Using Land-Use and Rainfall-Runoff Data." American Society of Civil Engineers, Journal of Irrigation and Drainage Engineering, Vol. 138, No 1, pp 43-54.

Fang, X., Thompson, D.B., Cleveland, T.G., Pradhan, P., and Malla, R. 2008. "Time of Concentration Estimated Using Watershed Parameters Determined by Automated and Manual Methods." American Society of Civil Engineers, Journal of Irrigation and Drainage Engineering, Vol. 134, No. 2, pp. 202-211.

Cleveland, T.G., Thompson, D.B., Fang, X., and He, X. 2008. "Synthesis of Unit Hydrographs from a Digital Elevation Model." American Society of Civil Engineers, Journal of Irrigation and Drainage Engineering, Vol. 134, No. 2, pp. 212-221.

Fang, X., Thompson, D.B., Cleveland, T.G., and Pradhan, P. 2007. "Variations of Time of Concentration Estimates Using the NRCS Velocity Method." American Society of Civil Engineers, Journal of Irrigation and Drainage Engineering, Vol. 133, No. 4, pp. 314-322.

Cleveland, T.G., and A. Fashokun, 2006. "Construction-Associated Solids Loads with a Temporary Sediment Control BMP." American Society of Civil Engineers, Journal of Construction Engineering and Management, Vol. 132, No. 10, pp. 1122-1125.

Cleveland, T.G., X. He, W.H. Asquith, X. Fang, and D.B. Thompson, 2006. "Instantaneous Unit Hydrograph Selection for Rainfall-Runoff Modeling of Small Watersheds in North and South Central Texas." American Society of Civil Engineers, Journal of Irrigation and Drainage Engineering, Vol. 132, No. 5, pp. 479-485.