



CURRICULUM VITAE

CHRISTOPHER C. OBROPTA, Ph.D., P.E.

Extension Specialist in Water Resources, Rutgers Cooperative Extension

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EDUCATION

Ph.D., Civil Engineering, 2002, Stevens Institute of Technology, Hoboken, NJ, Advisor: R.I. Hires

Dissertation: "Development of a Dynamic Mixing Zone Model to Simulate the Discharge of Treated Effluent into a Marine Environment"

M.S., Civil Engineering, 1989, New Jersey Institute of Technology, Newark, NJ, Advisor: M.S. Bruno

Thesis: "Sediment Transport and Bypassing Analysis at Manasquan, New Jersey"

B.S., Civil Engineering, 1988, New Jersey Institute of Technology, Newark, NJ, Magna Cum Laude

PROFESSIONAL EXPERIENCE

July 2017–present: Extension Specialist in Water Resources with Rutgers Cooperative Extension, Professor in Environmental Sciences

July 2008–July 2017: Associate Extension Specialist in Water Resources with Rutgers Cooperative Extension, Associate Professor in Environmental Sciences

July 2002–July 2008: Assistant Extension Specialist in Water Resources with Rutgers Cooperative Extension, Assistant Professor in Environmental Sciences

Responsibilities currently include:

- Developing and managing the Water Resources Program for Rutgers Cooperative Extension and the New Jersey Agricultural Experiment Station that integrates research, education, and extension components in three focus areas: Agriculture Water Management, Stormwater Management & Green Infrastructure, Watershed Planning & Restoration
- Securing grants and conducting research and Extension activities in the focus areas
- Conducting research on the development of Regional and Municipal Stormwater Management Plans
- Developing watershed restoration and protection plans
- Conducting research on stormwater best management practices (BMPs)
- Designing and implementing innovative agriculture water management practices to increase the viability of New Jersey farmers
- Directing a state-wide community-based green infrastructure initiative in urban areas of New Jersey
- Designing and implementing climate resilient stormwater management practices for addressing municipal flooding and water quality issues
- Conducting impervious cover assessments
- Developing impervious cover reduction action plans and green infrastructure feasibility studies
- Educating municipalities on septic system management strategies
- Teaching Bioresource Engineering Senior Design I and II, where students are required to work in teams to design solutions to complex real-life engineering problems that are faced in today's society

- Lecturing on watershed management and water quality issues as part of the Introduction to Bioenvironmental Engineering
- Giving Extension/education lectures and workshops for various stakeholder groups in New Jersey
- Leading the New Jersey Water Resources Research Institute

August 1989–June 2002: Project Engineer, Senior Project Engineer, Program Manager, Associate, and Senior Associate with Omni Environmental Corporation, Princeton, NJ

May 1988–August 1989: Junior Engineer with Johnson Engineering, Inc., Branchburg, NJ

January 1987–May 1988: Teaching Assistant and Research Assistant with New Jersey Institute of Technology, Department of Civil and Environmental Engineering, Newark, NJ

SELECTED PUBLICATIONS

Obropta, C.C. 2017. Community-Based Green Infrastructure, A Rutgers Cooperative Extension Urban Extension Initiative. *Journal of Human Sciences and Extension* 5(2) – June 2017.

Rector, P. and **C.C. Obropta**. 2016. Cooperative Extension and Neighbors: Adoption of Rain Gardens. *Journal of the NACAA* 9(1) – June 2016. On-Line publication <http://www.nacaa.com/journal/index.php?jid=605>

Salisbury, A. and **C.C. Obropta**. 2015. Potential for Existing Detention Basins to Comply with Updated Stormwater Rules: Case Study. ASCE, *Journal of Hydrology Engineering* 21(1) – December 2015.
[http://dx.doi.org/10.1061/\(ASCE\)HE.1943-5584.0001254](http://dx.doi.org/10.1061/(ASCE)HE.1943-5584.0001254)

Rector, P. and **C.C. Obropta**. 2015. Greening the Department of Public Works. *Journal of the NACAA* 8(1) – June 2015. On-Line publication <http://www.nacaa.com/journal/index.php?jid=474>

Yergeau, S.E. and **C.C. Obropta**. 2013. Preliminary Evaluation of Soil Compaction in Rain Gardens. *Journal of Environmental Engineering*. 10.1061/(ASCE)EE.1943-7870.0000732, 1233-1236.
[http://dx.doi.org/10.1061/\(ASCE\)EE.1943-7870.0000732](http://dx.doi.org/10.1061/(ASCE)EE.1943-7870.0000732)

Bakacs, M.E., M. Haberland, S. Mangiafico, A. Winkquist, Aileen, **C.C. Obropta**, A. Boyajian, and S. Mellor. 2013. Rain Barrels: A Catalyst for Change? *Journal of Extension* 51(3): 3RIB6.

Bakacs, M.E., S.E. Yergeau, and **C.C. Obropta**. 2013. Assessment of Car Wash Runoff Treatment Using Bioretention Mesocosms. *Journal of Environmental Engineering* 139 (8) – August 2013. [http://dx.doi.org/10.1061/\(ASCE\)EE.1943-7870.0000719](http://dx.doi.org/10.1061/(ASCE)EE.1943-7870.0000719)

Bakacs, M.E., **C.C. Obropta**, E. Rossi, and K. Barnett. 2013. Using a Reverse Auction Approach to Promote Indoor Water Conservation. *Journal of Extension* 51(2): Article No. 2FEA9.

Mangiafico, S.S., **C.C. Obropta**, and E. Rossi-Griffin. 2012. Demographic Factors Influence Environmental Values: A Lawn-Care Survey of Homeowners in New Jersey. *Journal of Extension* 50(1): Article No. 1RIB6.

Rector, P., **C.C. Obropta**, and B. Pearson. 2012. Community-scale disconnection of impervious surfaces in suburban New Jersey. *Journal of the NACAA* 5(2) – December 2012. On-Line publication <http://www.nacaa.com/journal/index.php?jid=172>

Kardos, J. S. and **C.C. Obropta**. 2011. Water Quality Model Uncertainty Analysis of a Point-Point Source Phosphorus Trading Program. *Journal of the American Water Resources Association* 47(6): 1317–1337.

Obropta, C.C. and S. Yergeau. 2011. Training Organizations in Use of a Modified Stream Visual Assessment Protocol. *Journal of Extension* 49(5): Article No. 5TOT8.

Obropta, C.C., M. Niazi, and J. Kardos. 2008. Application of an Environmental Decision Support System to a Water Quality Trading Program Affected by Surface Water Diversions. *Environmental Management* 42(6): 946-956.