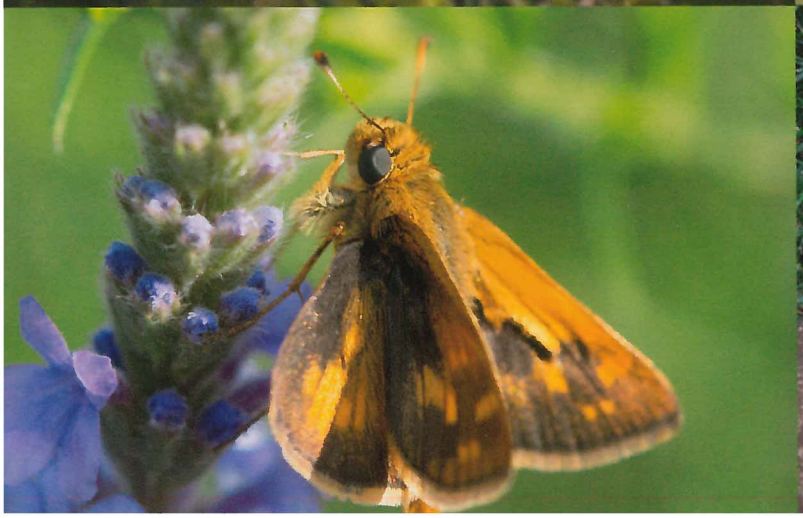
2016 Illinois Green Infrastructure Conference:

Stormwater in the Urban Ecosystem

Hosted by the MS4 Stormwater Technical Committee:

City of Champaign
City of Urbana
Champaign County
Champaign County Soil and Water Conservation
University of Illinois at Urbana-Champaign
Village of Savoy

Thursday, September 15, 2016
8:00 am – 3:30 pm
I-Hotel Conference Center
1900 S. 1st St., Champaign, IL 61820



On behalf of the Champaign County MS4 Stormwater Technical Committee it is our great pleasure to extend a warm welcome to all in attendance today.

Recent increases in new development projects coupled with the updated Municipal Separate Storm Sewer Systems (MS4) permit requirements has presented opportunities to reinvent green stormwater infrastructure. Today, our presenters will discuss how green infrastructure can be used to meet regulatory requirements and improve stream health. Our presenters will discuss green infrastructure design and construction, maintenance, common public misconceptions, and how we as a community can work together to gain public acceptance for these practices.

Thank you for attending on behalf of the MS4 Technical Committee

City of Champaign

Eleanor W. Blackmon, P.E. Assistant City Engineer

Alex M. Nagy, P.E., Civil Engineer

Leslie Mitchell, Stormwater Engineering Technician

University of Illinois at Urbana-Champaign

David Wilcoxen, Director Environmental Compliance

Betsy Liggett, Coordinator, Special Programs, Environmental Compliance

Jason Jones, Coordinator, Special Programs, Environmental Compliance

Champaign County

John Hall, Director of Planning and Zoning

Champaign County SWCD

Jonathon Manuel, Resource Conservationist

Village of Savoy

Levi Kopmann, Public Works Director

City of Urbana

Brad Bennett, Assistant City Engineer

Beth Reinke, Stormwater Engineering Tech

Justin Swinford, P.E., Civil Engineer II

Schedule of Events

8:00 Registration

Visit Sponsor Booths & Continental Breakfast

8:30 Welcome and Opening Remarks

Cathy Demeroukas, Illinois Environmental Protection Agency will touch on the significant changes made to the MS4 stormwater permit.

9:00 Green Infrastructure—Design Principles and Considerations

Daniel P. Christian, Green Infrastructure is a resilient and sustainable approach to managing wet weather impacts and has many community benefits. This session will discuss how we design and construct a successful green infrastructure project both in new construction and for redevelopment projects. How to design a system for infiltration, evapotranspiration, storage, outlets and overflows while overcoming perceived barriers, challenges and obstacles.

10:00 Break

Visit Event Promoter Tables

10:30 Successfully Incorporate Native Plants in an Urban Green Infrastructure Project

Steve Zimmerman, How can local governments overcome barriers and "sell" the use of native plants? This session will give us a better understanding of how to maintain, install, and work with certain selection of plants for stormwater infrastructure projects.

11:45 Lunch & Slide Show

Green Infrastructure Projects within the MS4 Technical Committee Jurisdictions

12:45 Green Infrastructure and Public Health

Andrew Mackay, Human-made stormwater infrastructure and how it interacts with disease-carrying insects. Contrasting green infrastructure adoption at the public and homeowner scales: potential risks and benefits to managing mosquito-borne disease risk.

1:10 Detention Basins and Geese Management—Working Together!

Caitlin Lill, Park Manager, Urbana Park District and **Vanessa A. Williams**, Animal Behaviorist/Field Operations Manager, Wild Goose Chase. Urbana Park District's Crystal Lake Park became overwhelmed with geese. Urbana developed a Goose Management Plan with the introduction of wild goose chasers.

1:40 Green Infrastructure Bus Tour

Tour Stop 1: Permeable Pavement

Faith United Methodist Church,
1719 S. Prospect Ave., Champaign, IL

Tour Stop 2: Detention Basin Native Plants, Urban Ecology

City of Champaign, Preservation Pond,
1308 W. Washington St., Champaign, IL

Tour Stop 3: Green Roof

Latitude Apartments,
608 E University, Champaign, IL

Thank you to the MTD for generously providing the tour bus.

Presenters

Dan Christian is a Senior Project Manager and Water Resource Engineer with Tetra Tech. Dan specializes in stormwater management programs, policies and implementation with over 25 years of experience. Dan has prepared numerous studies and designs for a wide variety of stormwater control measures such as rain gardens, bioretention, infiltration, porous pavement, water conservation, and others. Dan's work often involves green infrastructure in roadway corridors as well as site developments. His clients include federal, state, county and local government entities as well as non-profit organizations located throughout the U.S. Dan attended Michigan State University and received a bachelors and master degree in civil engineering. Dan is married, has two teenage sons, and in his free time enjoys getting outdoors camping, hiking, and fishing.

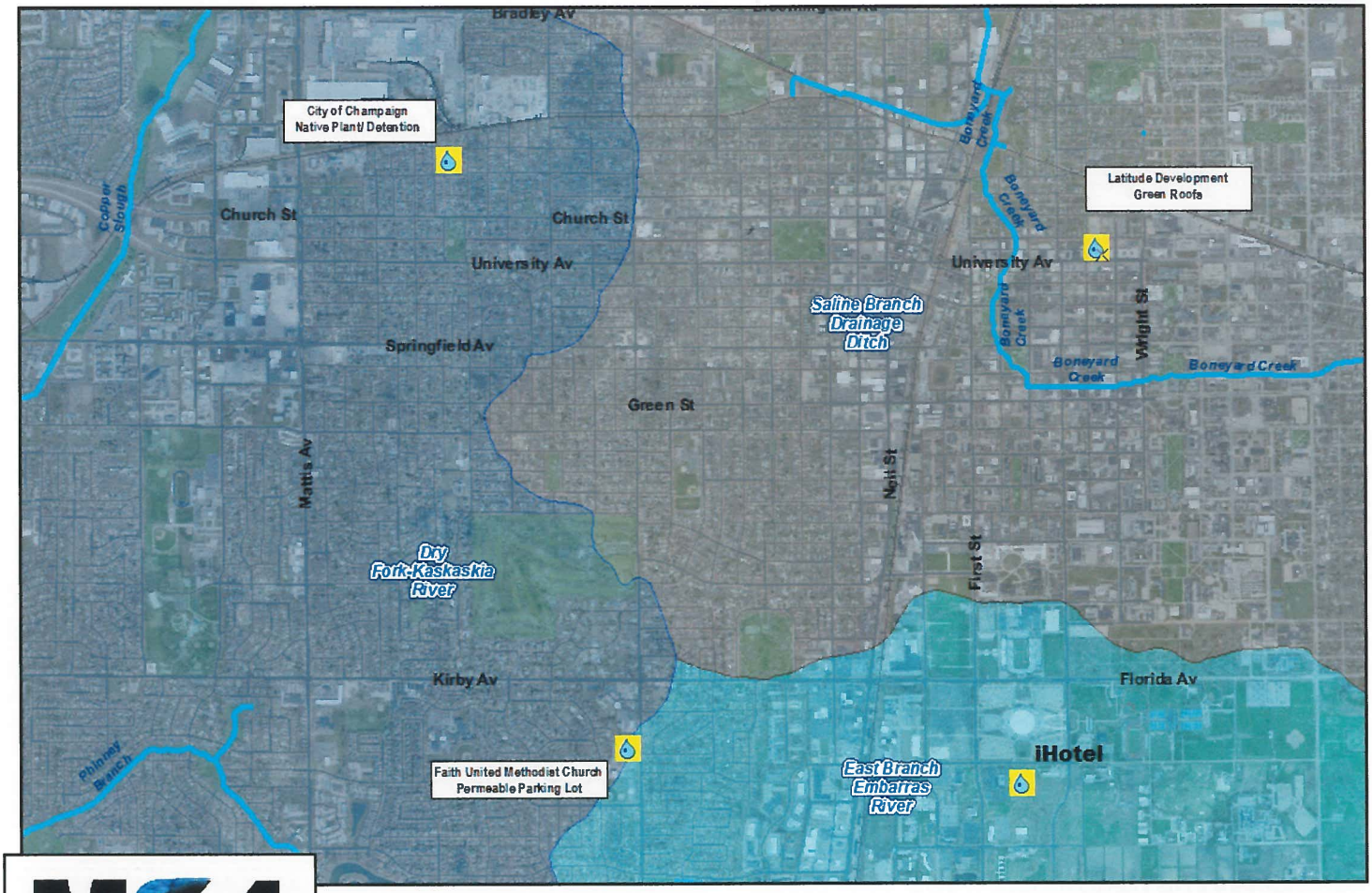
Steve Zimmerman has fifteen years of professional experience in natural resources restoration and management working out of AES' West Dundee, IL, office. His specialties include stream ecology, prairie, woodland, wetland restoration, stream and lake shoreline restoration, watershed planning, green infrastructure planning, vegetation surveys/monitoring, fisheries management, water quality monitoring, and wetland evaluations. In addition, many aspects of these projects include acquiring and administering permits, preparation of construction documents, erosion control design, and natural resources surveying. Steve has also given dozens of ecological related presentations to various clients.

Andrew Mackay, Postdoctoral Associate, at the Allan Lab, Department of Entomology, School of Integrative

Biology, University of Illinois Urbana-Champaign. Andrew joined Professor Allan's lab in 2012, just as Allan's lab began research toward human-made stormwater infrastructure and how it interacts with disease-carrying insects. Andrew's interest has always been in biology, and it was his first college working position in a lab where he became fascinated with mosquito research. He took this knowledge to a position with the Center for Disease Control's Dengue Branch in San Juan, Puerto Rico to research outbreak of disease from mosquitoes. Andrew continues to research whether or not green infrastructure has conditions that allow mosquitoes to develop.

Caitlin Lil has been with Urbana Park District since 2012, working to improve the natural areas to their fullest potential in an urban environment. Caitlin's goals are to make sure that every park visitor has an enjoyable experience in its most natural form. Caitlin has a degree in Biology, Classics, Museum Studies from Beloit College, and Graduate Degree from San Francisco State University.

Vanessa Williams, and her 6-year-old wildlife management canine named Bree have been doing bird management at golf courses, parks, beaches, airports, and many retention and drainage areas since September of 2010. Vanessa has a degree from University of Wisconsin, Stevens Point in both Biology and Physiology. More can found about Vanessa, Bree, and Wild Goose Chase at wildgoosechasers.com.



MS4 MUNICIPAL SEPARATE STORM SEWER SYSTEM

CITY OF URBANA • CITY OF CHAMPAIGN • VILLAGE OF SAVOY
UNIVERSITY OF ILLINOIS • CHAMPAIGN COUNTY

2016 Illinois Green Infrastructure Tour: Stormwater and the Urban Ecosystem

Green Infrastructure Tour Stop
Streams
Saline Branch Drainage Ditch
East Branch Embarras River
Dry Fork–Kaskaskia River

N

0 0.25 0.5 1 Mile

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