

Stormwater Management March 4-5, 2014

**Speaker Bios – speakers are listed alphabetically**

**Todd Antoine, AICP** - is the Director for Planning at the Great Rivers Greenway District in St. Louis,



Missouri. The primary focus of his work is to develop and implement The River Ring, a regional interconnected system of greenways, parks and trails. He coordinates efforts to establish partnerships with local, state and regional entities in the implementation of The River Ring with projects in St. Louis City, St. Louis County and St. Charles County, Missouri. Todd is a member of the

American Planning Association and the American Institute of Certified Planners (AICP). He received his master's degree in urban affairs from St. Louis University.

**Simon Barker**, Director of Native Horticulture,



Native Landscape Solutions, Inc.

Monica and Simon Barker formed NLS with Mark & MaryJo LaBarge in 2010. Native Landscape Solutions, Inc. performs construction, design and stewardship of a diverse range of native landscapes.

Simon is a graduate of Reading University in the UK and has lived in St Louis, getting to know the local flora (and fauna) for the past 30 years. Currently Simon is a member of the Grow Native! Committee and encourages the use of native plants whenever possible.

**Doug Bauer, DJM Ecological Services**



Doug Bauer, Doug Bauer is president of DJM Ecological Services, Inc. & Pure Air Natives, Inc. a pair of companies dedicated to the furtherance of native plants in the urban landscape. He has project experience throughout the Midwest and has completed numerous engagements with clients across many business and government sectors. His specific skill set involves installing & maintaining naturalized plantings in environments that aren't so natural—think bio-swales, rain gardens, green roofs, urban park districts and corporate campuses. Doug has completed two degrees (University of Illinois & University of Chicago), fought wildfires with the United States Forest Service, climbed the highest peak in the continental 48 (Mt. Whitney), remodeled numerous 100+ year old buildings and has canoed the Mississippi River from the confluence of the Missouri to the confluence of the Ohio. Doug is married (Aubrey) and has two daughters, Harper & Blaine.

## Jeff DePew, Webster University



Jeff De Pew earned his Bachelor of Science in horticulture and environmental science from University of Missouri-Columbia in 1979, a BS in Biology, as well as a Masters in Education from Washington University. He has taught high school biology, ecology, field ecology and experiential field trips for 35 years in private and public schools, the Missouri Botanical Garden and Teton Science School. Jeff has taught Plant Biology, Environmental Science, Global Climate Change, Stream Ecology, Missouri Environmental Issues and various ecology courses at Webster University for 17 years. He has published a field journal, *Stream Ecology, a journal for action*. Jeff has had the privilege to be part of public and private ecological research on a number of endangered species throughout North America: grey whale migration in Baja California, red wolf reintroduction in North Carolina, coral reef degradation in Jamaica, black-footed ferret preservation in Wyoming, restoration of leatherback sea turtle populations in Puerto Rico, and bat species declines in California, Arizona, Tennessee and Missouri. Jeff is a certified Professional Wetland Scientist and has developed several restoration projects in wetland areas and as educational restored habitats

## Scott Emmelkamp, ASLA, RLA, LEED AP – is a Principal landscape architect at Planning



Design Studio in St. Louis, Missouri. Mr. Emmelkamp has over 26 years of landscape architecture experience. He has provided master planning and sustainable design services for the Great Rivers Greenway District since 2004 for various projects in St. Charles County, St. Louis County and the City of St. Louis.

## Noel Fehr, ASLA, RLA – is a Principal at Planning Design Studio in St. Louis, Missouri. He has promoted



and been a part of sustainable site planning and design during his thirty plus years of practice. He was the designer of record for GRG's first "Pilot" project and continues to provide greenway planning and design on the River des Peres, Mississippi, Christy and St. Vincent Greenways.

## Raymond H. Frankenberg II

PE, PLS, CPESC, CESSWI, CFM

President - BFA, Inc.



Mr. Frankenberg has 30 years of experience in engineering design, surveying, and project management, and is currently president of BFA, Inc., a Civil Engineering Design firm of 25 associates, located in Washington MO, with clientele in commercial/retail site design and municipal engineering. He is registered as an engineer in 29 states, a surveyor in 6 states, and holds credentials for being a Certified Floodplain Manager (CFM), Certified Professional in Erosion and Sediment Control (CPESC), and Certified Erosion, Sediment, and Storm Water Inspector (CESSWI).

Ray's experience with stormwater and green infrastructure design projects includes handling construction site stormwater runoff and erosion control, design of traditional retention/detention ponds, stream stabilization and erosion repairs, design of bio-detention facilities (such as rain gardens), and rehabilitation of failed bio-detention and infiltration facilities. His recent project experience includes reviving a failed infiltration area for

a 225-acre watershed, rehabilitation of failed bio-islands on a commercial parking lot, and working with a local community to develop plans to reduce sediment runoff in an urban watershed through public/private education, pre-treatment features, and turf enhancements using native plant species as well as non-natives. Ray also provided comments, example photographs, and construction details as part of a peer review team that worked with Ruth Wallace and the Missouri Department of Natural Resources as they updated the Protecting Water Quality and Guide to Green Infrastructure documents.

**Stephen Ibendahl** ASLA, RLA, , Heartlands Conservancy



**Stephen Ibendahl** is the Sustainability Planner for Heartlands Conservancy, a non-profit that Invests in the Nature of Southwestern Illinois through conservation, building greener communities, and community engagement. Stephen is a native of Washington County, Illinois and an alumni of the University of Illinois. He is an advocate for walkable communities, sustainable design, and green infrastructure. His experience includes a wide range and diversity of projects such as master planning, urban design, land use planning, park and trail planning, streetscape design, site development, transportation and transit enhancements, and public involvement. He has worked with a wide variety of groups including state and federal agencies, communities, neighborhood organizations, and businesses.

**Lara Isch** Water Quality Educator, Water Services Department,



Lara Isch began work with the Kansas City Water Services Department in 2003 with the Household Hazardous Waste Program where she co-created the Kansas City Rehab the Lab initiative, worked to get pharmaceutical take backs integrated into Household Hazardous Waste events, and discovered a passion for public outreach in the process. In 2012, after two years in private consulting, she returned to Water Services as the Water Quality Educator, where she is responsible for implementation of water quality related education and outreach for both the Overflow Control Program and the Stormwater Utility. She currently administers the “Journey of Stormwater: KC to the Sea” educational curriculum in local schools and serves as a co-chairperson on the Mid America Regional Council’s Regional Water Quality Education Committee. Ms. Isch holds a Bachelors of Environmental Studies from the University of Kansas with concentrations in Science and Policy.

**Nickolas Krekeler** Landesign



Nicholas Krekeler is a Project Manager and Restoration Ecologist at Landesign, Inc. He has a Bachelor's Degree in Forestry, a Master of Science Degree in Forestry with an Emphasis in Soils, Ecology, and Silviculture from the University of Missouri-Columbia. With over ten years of experience as a restoration ecologist, Nick brings confidence and understanding when constructing prairies and savannas in parks, stabilizing eroding urban streambanks, restoring functional wetlands, or developing sustainable habitats that provide tangible ecosystem benefits on private, public, and corporate campuses. Nick's resume includes the restoration efforts by Ameren Missouri following the Taum Sauk Reservoir breach, Novus International stormwater and native habitat reconstructions, AB-Inbev

Biergarten, Ballpark Village, Siteman Cancer Center, St. Louis County's Household Chemical Center, Mercy St. John's Garden Green Roofs, and the Wild Dog, Sun Bear, and Malaysian Bear habitats in the River's Edge exhibit at the St. Louis Zoo. Nick also works closely with our maintenance staff (the Grounds Guys) to implement stewardship strategies for stormwater BMPs, rain gardens, and other native habitats managed by our team. Nick is an outdoorsman who enjoys fishing, hunting, and gardening in his free time. He lives in St. Peters with his wife and daughter.

**Guy Litteken** is the Sales Manager for the St. Louis Division of ASP Enterprises, proudly serving the civil construction industry in the Eastern Missouri, Metro St. Louis and Southern Illinois. He is a CPESC – Certified Professional in Erosion & Sediment Control and a graduate of University of Missouri-St. Louis. ASP Enterprises is a Site Solutions Provider with 5 locations in the Midwest.



**Susan M. McCrary, P.E.** is a Principal Engineer with the Metropolitan St. Louis Sewer District. She has BS and MS degrees in Civil Engineering from Missouri University of Science & Technology. Ms. McCrary is a Registered Professional Engineer in Missouri. She has 14 years of experience in stormwater management – including extensive work with green infrastructure techniques and stream restoration. Currently, Ms. McCrary is the project manager for MSD's CSO Volume Reduction – Green Infrastructure Pilot Program as well as conducting final design work on green infrastructure facilities.



### **Becky McMahon, DJM Ecological Services**



ecological  
services, inc.

Becky McMahon is a project ecologist with DJM Ecological Services, Inc. and Pure Air Natives, Inc. She has experience in the restoration field from a unique perspective having spent parts of her career in the private & non-profit sectors. She specializes in habitat assessment, installation, and stewardship of wetlands, prairies, savannahs, and woodlands. Becky has a B.S. from Arizona State University, is a certified arborist, a licensed pesticide applicator, and is OSHA 30 certified. In her spare time she can be found climbing trees with her daughter Kaylee. Dirt under her nails is a sign of a day well spent.

### **Craig Miller, Webster University**



Craig is Director of Facilities Planning at Webster university's Main Campus in Webster Groves, MO.

**Jeff Nilges, ASLA, RLA** – is a Senior Landscape Architect at Planning Design Studio in St. Louis,



Missouri. Mr. Nilges has over 14 years of landscape architecture experience and has provided master planning, sustainable design, and construction implementation services for the Great Rivers Greenway District since 2002. His most recent project, Phase 1 of the Mississippi River Greenway was awarded an ASLA Merit Award from the St. Louis

Chapter of ASLA.

**Jeremy Roth, P.E.** General Manager - Land Development, McBride & Son Homes



Jeremy is the General Manager of Land Development for McBride & Son Homes. Working for the largest homebuilder in the state has allowed Jeremy to work on residential projects of all types and sizes. He has over 10 years of experience in all aspects of residential land development throughout the St. Louis region. He received both his Bachelor of Science degree and Master of Science degree in Civil Engineering from the University of Missouri-Columbia.

**Bonnie C. Roy, PLA, APA, ASLA, MUD,** Principal, SWT Design



Bonnie Roy, principal of SWT Design, brings more than 10 years of experience to the firm in urban design, planning and landscape architecture. Her design and project leadership draws upon a deep understanding and passion for the intersection of the built and natural environments. She has led SWT Design and its team through projects in all sectors, from streetscape and urban revitalization, to healthcare design, campus planning, and parks and recreation. Her design direction and leadership has earned numerous awards and national recognition for SWT Design.

Bonnie served as the project manager for the Webster University East Academic Building and led the site design and construction of the project from the early master plan phase through construction observation.

**Lisa Treese, RLA, LEED® AP** Senior Landscape Architect, Water Services Department, KC, MO



Lisa is a landscape architect with nearly ten years' experience in practice. She started her landscape architectural career with Wallace, Roberts & Todd (WRT) in Coral Gables, Florida, working on national site design and planning projects. She returned to Kansas City and worked at Vireo (formerly Patti Banks Associates) for over six years on regional projects rooted in environmental sustainability. In November of 2012, she began working for Water Services as part of the Overflow Control Program and supports other departmental divisions. She is responsible for informing decisions related to green infrastructure and site design, monitoring green infrastructure maintenance agreements, and advising internal maintenance programs. Lisa holds a Bachelors of Landscape Architecture and a secondary major in Natural Resources & Environmental Science from Kansas State University.

**Mark Joersz,** Advanced Drainage Systems, Inc. (ADS)



Mark is the Regional Engineer and Engineered Products Manager for Advanced Drainage Systems, Inc. He manages all stormwater Best Management Practices and engineered



solutions in Missouri, Illinois and Kansas. Prior to his current role, Mark was a Regional Engineer and the Central Region Director of Engineering. He graduated from the University of Missouri-Rolla in 1995 with a BSCE, followed by a M.A. in Management in 2001 from Webster University – St. Louis. Prior to joining ADS in early 2006, Mark worked in various project and territory management roles with Nooter Corporation (St. Louis) and Arlon – Silicone Technologies (Delaware). He is a national member of Chi Epsilon, as well as a member of the American Public Works Association (APWA), MO. WEF, Engineers' Club of St. Louis and participates in activities with the ASCE, AWWA, Association of General Contractors (AGC) and Missouri Society of Professional Engineers.

**Ruth A. Wallace** CMS4S, Municipal Stormwater Program Coordinator, MO Dept. of Natural Resources, Water Protection Program



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

Ruth Wallace has worked for the State of Missouri for nearly 24 years. She has been coordinating the Municipal Stormwater Program for the Missouri Department of Natural Resources since 2007, working with 165 local governments required to implement comprehensive stormwater quality programs. While her primary role is state regulator of municipal stormwater programs, she provides stormwater technical assistance to local governments, nonprofit organizations and individual developers since 1994 - promoting sustainable site designs and stormwater practices that serve to protect Missouri's stream and lake systems while protecting social and economic interests. In the first few years with the Department of Natural Resources, Ruth registered small community wells for the Public Drinking Water Program, permitted mobile asphalt and limestone crushing facilities for the Air Pollution Control Program and administered public water quality grants for the Water Pollution Control Program. She also spent a few years with the Department of Conservation in Kansas City's urban stream protection program.

Ruth edited the Missouri's Protecting Water Quality field guide for construction-site contractors the Missouri Guide to Green Infrastructure. She has a Bachelor of Science degree in Urban Horticulture and Landscape Design from the University of Arkansas and a Masters degree in Public Administration from the University of Missouri. Ruth is a certified municipal stormwater specialist through the Envirocert, International program.

**Scott Woodbury, Curator of the Whitmire Wildflower Garden at Shaw Nature Reserve**



Scott has been developing the Whitmire Wildflower Garden at Shaw Nature Reserve since the early 1990's. years. The Wildflower Garden is a five-acre demonstration for landscaping with Missouri Native Plants and is adjacent to a 25 acre reconstructed tallgrass prairie.

Scott received a BS degree in horticulture at the University of Wisconsin-Madison and has worked at various public gardens including Old Westbury Gardens in New York, Longwood Gardens in Pennsylvania, Castello Di Uzzano in Italy, and Tudor Place in Washington D.C. He currently serves on the board of Wild Ones, a non-profit organization which is dedicated to promoting biodiversity and environmentally sound gardening practices using native plants.

**Craig A. Miller**

Education:

B.S. in Architectural Studies, University of Wisconsin-Milwaukee, 1986

Master of Architecture, University of Illinois at Chicago, 1993

Work Experience:

Director of Facilities Planning and Management, Webster University, 2011 – present

McCarthy Building Companies, Inc., Webster University, 2003 – 2010

Professional Affiliations:

Construction Specifications Institute (CSI)

American Institute of Architects (AIA)

National Organization of Minority Architects (NOMA)

Association of Physical Plant Administrators (APPA)

Recent Webster University Projects:

Garden Avenue and Mary Ann Lee Plazas, 2013

East Academic Building (including two rain gardens), 2012

Storm Water Detention Pond, 2012