

RIVERFRONT COMMUNITIES

BEST PRACTICES

SERIES

GREEN INFRASTRUCTURE: PUTTING IT TO WORK

Tools to implement green infrastructure – beyond the basics – through on-the-ground case studies and experience and community benefits



November 18, 2016

10th Annual Watershed Symposium - Utah Cultural Celebration Center

STORMWATER BEST PRACTICES



www.jordanrivercommission.org

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AGENDA

NOVEMBER 18, 2016

8:30-9:00AM - Introduction - About the Best Practices Series

9:00-10:00AM - Green Infrastructure On-The-Ground: Spanish Fork City

Presented by Cory Pierce, Spanish Fork City

- Successes and lessons learned implementing low impact development standards in Spanish Fork City.
- Considerations when implementing low impact development in a municipality.

10:00-11:30AM - Greening Infrastructure for the Anthropocene: An ecological planning approach

Presented by Hillary Brown, City College of New York

- "Infrastructure ecology" for integrative and responsive design to other systems, existing context, local climate, and emerging risks
- How to enrich the design of engineering-dominated infrastructure to develop innovative solutions

11:30 - 12:15PM - Lunch & Green Infrastructure in the University

Presented by Sarah Hinners, University of Utah Ecological Planning Center

- Effectiveness of green infrastructure in the arid Southwest
- Data & research to guide more successful green infrastructure projects

12:15-1:00PM - Green Infrastructure at a Systems Scale

Presented by LaNiece Davenport, Wasatch Front Regional Council & Jim Price, Mountainland Association of Governments

- ReConnect: The Wasatch Front Green Infrastructure Plan
- Tools, resources, & funding mechanisms for regional green infrastructure

1:00-3:00PM - Green Infrastructure: Rules & Regulations

Presented by Trace Robinson, Riverton City

- How green infrastructure can help with MS4 compliance
- Considerations for green infrastructure implementation

3:00-5:00PM - Low Impact Development – Meeting the Regulation Challenge

Presented by Paul Taylor, JUB Engineers

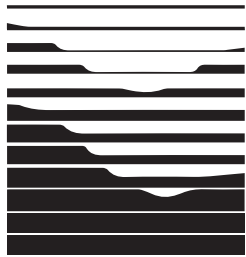
- How to plan for low-impact development and its benefits
- Common practices for low-impact development implementation

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CONTINUING EDUCATION CREDITS AVAILABLE!



AMERICAN
SOCIETY OF
LANDSCAPE
ARCHITECTS
UTAH

8 CREDITS AVAILABLE



CREDITS COMING SOON

ABOUT THE INSTRUCTORS

Hillary Brown, FAIA

Professor, City College of New York

Hillary, FAIA (Fellow of the American Institute of Architecture) is Professor of Architecture at the City College of New York's (CCNY/CUNY) Spitzer School of Architecture. She is the Program Director of CCNY's interdisciplinary master's program, Sustainability in the Urban Environment, developed with the Grove School of Engineering and CCNY's Division of Science. She serves on the Board of Infrastructure and the Constructed Environment under the National Academies' National Research Council. She is a Fellow with the Post Carbon Institute. She has served on the National and NY Board of Directors of the U.S. Green Building Council. Founded in 2001, Brown's consulting firm, New Civic Works, has engaged public and institutional clients in greening facility and infrastructure capital programs. As a former design director and Assistant Commissioner at New York City's Department of Design and Construction, Hillary Brown founded New York City's Office of Sustainable Design in 1996. She is the co-author and managing editor of both the City of New York High Performance Building and High Performance Infrastructure Guidelines, and the US Green Building Council's State and Local Green Building Toolkit. Her book, *Next Generation Infrastructure: Principles for Post-Industrial Public Works*, (Island Press 2014) asks how our complex, interdependent utilities can support an urbanizing world, subject to carbon constraints and the impacts of climate change. Her next book, *Infrastructural Ecologies*, which will be available from MIT Press in Spring 2017, utilizes a similar framework, but with a focus on practical examples from the developing world.

LaNiece Davenport

Director of Wasatch Front Economic Development District, Wasatch Front Regional Council

LaNiece entered the world of green infrastructure planning in 2009. She led the development of Utah's first green infrastructure plan, (Re)Connect: The Wasatch Front Green Infrastructure Plan. She holds a bachelor's degree in Geography and a master's degree in Public Administration from the University of Utah.

Sarah Hinners

Acting Director, University of Utah Ecological Planning Center

Sarah is a landscape and urban ecologist with a B.A. in Geography and Environmental Studies from McGill University and a PhD. in Ecology and Evolutionary Biology from the University of Colorado, Boulder. As a scientist in a planning department, much of her work centers on bridging the gap between science and academic research and real-world planning and design applications. Her research interests focus topically on the ecological, economic and social roles

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of nature and natural systems in and around cities. She works on green infrastructure-related questions ranging from the ecological processes occurring within stormwater bioretention systems to regional green infrastructure planning and implementation. She directs the Ecological Planning Center, and helped to found the NatureWorks Alliance, a regional network focused on promoting and developing green infrastructure planning and practice in Utah.

Jim Price, AICP, PTP***Active Transportation Program Manager, Mountainland Association of Governments***

Jim earned a BS in Psychology and an MPA at Brigham Young University and has been with MAG since 1999. His favorite thing about his job is “Taking trail projects from blurry idea to three inches of asphalt.” He loves to use the trails he helps build, especially the Jordan River Parkway just minutes from his home.

Trace Robinson, P.E.***Public Works Director & City Engineer, Riverton City***

Trace has 33 years of experience dealing with all aspects of stormwater infrastructure design and has a strong commitment to the stormwater protection program. He has been involved with the development of many of the UPDES programs for Cities throughout the State including serving as a committee member, chairman, and trainer for the State RSI Program (Registered Stormwater Inspector Program) and RSR (Registered SWPPP Reviewer Program). Mr. Robinson has worked in the local government sector and has experience in the development of stormwater utilities, along with the management of MS4 and General Construction Permits. He has written several stormwater ordinances, SWPPS, and managed SWPP compliance inspections for several Cities. He has a Masters Degree in Water Resources Engineering from Brigham Young University and currently serves on the Utah LTAP Board, South Valley Landfill Board, APWA Utah Chapter Board, Utah Storm Water Advisory Committee, RSI training committee and instructor, RSR committee and instructor, and the Utah APWA Specification Committee.

Paul Taylor, P.E.***Senior Project Manager, JUB Engineers***

Paul received his Bachelors of Science degree from USU in Civil and Environmental Engineering in 1983. Upon graduating from USU he went to work for Bingham Engineering. He worked at Bingham Engineering for 18 years, working from the position of staff engineer up to being a member of the Board of Directors, and officer of the company. In 2001, he took a position as a Senior Project Manager for J-U-B Engineers. He is accomplished in Master Planning, project design, permitting, Water Quality Retrofit Plans, BMP analysis and design, hydrology, hydraulic analysis, and existing infrastructure condition assessments. He is currently serving on the Utah Chapter APWA Stormwater Advisory Committee. He is on the Board of Directors for CISEC, a national inspector certification program for sediment and erosion control. He has become recognized as one of the top authorities in the Intermountain West on EPA Stormwater Quality Regulations.

Cory Pierce, P.E.***Senior Engineer, City of Spanish Fork***

Cory earned his Bachelors of Science in Civil and Environmental Engineering from the University of Utah and has been involved with municipal and development engineering for 12 years. As a Senior Engineer for Spanish Fork City, his responsibilities include utility master planning, transportation planning, SWPPP, flood plain management, development review, construction standards, and construction management. Cory was directly involved in developing and implementing Spanish Fork City's low impact development standards.

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REGISTRATION FORM

NAME _____

ORGANIZATION OR AFFILIATION _____

ADDRESS _____

CITY, STATE, ZIP _____

EMAIL _____ **TEL** _____

REGISTRATION

Tier One _____ **\$20**

Jordan River Commission member governments,
JRC TAC members, non-profits, students, and
partner agencies

Tier Two _____ **\$35**

All other local, state or federal governments

Tier Three _____ **\$50**

Private individuals and companies

Call: (801) 536-4158

Email: lahanson@utah.gov

Jordan River Commission

195 North 1950 West, SLC, Utah 84116

PAYMENT

1. Please make checks payable to:

Jordan River Commission
P.O. Box 91095
Salt Lake City, Utah 84109

2. Charge To: Visa MC AmEx Disc

Circle one

Account # _____

Exp. Date _____ **Security Code** _____

3. Register Online:

www.jordanrivercommission.com/training

WORKSHOP LOCATION

This workshop will be held at the Utah Cultural Celebration Center in West Valley City. 1355 West 3100 South, West Valley City, Utah 84119 Directions are available by calling (801) 965 -5100.

REGISTRATION DETAILS

The registration fee includes a book of speaker materials, lunches and refreshments. The Jordan River Commission's Tax ID is 27-3718105. No refunds or cancellations a week before the workshop, but substitutions are welcome.

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195 North 1950 West
Salt Lake City, Utah 84116**