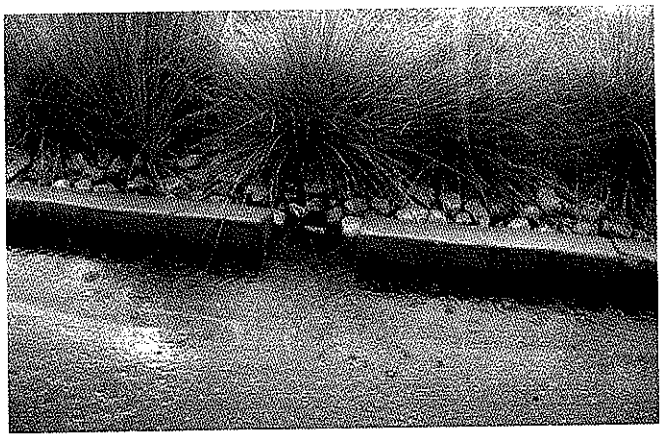
Managing Arid Wet Weather with Green Infrastructure and Low Impact Development

A workshop on innovative stormwater management approaches



March 23-24, 2010
Albuquerque, New Mexico

Location: Rotunda at UNM Science and Technology Park, 801 University Blvd. SE

Agenda

March 23, 2010
12 noon – 5:00 pm
An overview of Green Infrastructure (GI) and Low Impact Development (LID) techniques and approaches with national experts

March 24th, 2010
8:00 am – 5:00 pm
GI and LID for Semi-Arid Climates:
A New Mexico focus with local experts, local examples, and local challenges

Registration and Fee

Online registration begins January 15th, and is limited to 120 people. Register early to reserve your space!

$35.00 registration fee includes the cost of lunch both days

Audience

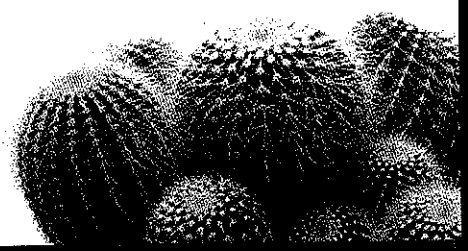
Engineers, MS4 program managers, planners, architects, landscape architects, municipal officials, watershed organizations, and more.

Professional development credits are available.

Sponsored by

Bernalillo County Public Works Division & EPA Region 6

Contact Steve Glass for more information or to join the mailing list: (505) 224-1637 or sglass@bernco.gov.



Visit for details and registration.

Albuquerque Area GI-LID Workshop Welcome

Welcome to the first annual Albuquerque Area Green Infrastructure/ Low Impact Development (GI/LID) Workshop! I'd like to express sincere gratitude to the Workshop Planning Team, the members of which spent long hours and significant resources assembling a top-notch program for the first of what we hope will be many such workshops. GI and LID techniques and practices are gaining recognition and popularity as sustainable measures for reducing both erosive flows and pollutant transport often associated with storm events in urbanized areas. In fact, the USEPA strongly encourages the application of GI and LID approaches for compliance with Municipal Separate Storm Sewer System (MS4) permits issued under the federal National Pollutant Discharge Elimination System (NPDES). However, many of the GI and LID approaches developed in other parts of the country don't function well in the arid southwest, where infrequent high intensity storm events can wash out even the most robust infrastructure. One important recommendation of a 2008 GI/LID focus group, organized by KT LaBadie for her UNM Masters Project, was that ongoing discussions are needed regarding the applicability of GI and LID approaches in semi-arid environments. This workshop is an implementation of that recommendation, and we look forward to a day and a half of frank and open explorations of how GI and LID practices and techniques can be successfully applied to the unique conditions in the semi-arid southwestern states.

Thank you for joining us for this important exploration!

J. Steven Glass, Water Resources Planner,
Bernalillo County Public Works Division

Planning Committee

Trevor Alsop	Jennifer Molloy
Kali Bronson	Stephanie Moore
Kevin Daggett	Roland Penttila
Steve Glass	Suzanna Perea
Vern Hershberger	George Radnovich
Tim Karpoff	Nelly Smith
Leslie Kryder	Brad Sumrall
KT LaBadie	Kathy Verhage
Tamara Mittman	

Sponsors

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Green Infrastructure Low Impact Development in Arid Environments

Workshop Program

Innovative stormwater management for the new century

March 23rd-24th, 2010

Rotunda at UNM Science and Technology Park
Albuquerque, NM

http://www.aridlid.org

Schedule of Events

Tuesday, March 23, 2010

12:00 – 12:30	Registration and Box Lunch	
12:30 – 1:00 VT	Conference Welcome	Isaac Benton, Albuquerque City Council Steven Glass, Bernalillo County
1:00 – 2:15 VT	Managing Wet Weather with Green Infrastructure	Tamara Mittman, EPA National HQ
	Benefits of GI-LID	Chris Kloss, LID Center
	GI-LID Update & EPA-R6 Regulatory Initiatives	Suzanna Perea, EPA Region 6
2:15 – 2:30	Facilitated Q & A	
2:30 – 3:00	Break: Roundtable Topics Marketplace	
3:00 – 4:15 VT	Local Incentives and Codes Retrofit Opportunities	Chris Kloss, LID Center
4:15 – 4:45	Facilitated Q & A	
4:45 – 5:00	Conclusion: Roundtable Topics Marketplace	

Wednesday, March 24, 2010

7:30 – 8:00 VT	Breakfast: Bernalillo County Perspective	Thaddeus Lucero, County Manager
8:00 – 9:30 VT	GI-LID for Semi-Arid Climates: Albuquerque-Style (Leslie R. Kryder, Leslie Consulting, Moderator)	KT LaBadie, UNM: Research Project; Susie Marbury, US-GBC: LEED Neighborhoods; Nick Kuhn, City of Albuquerque; Vaikko Allen, SCSWMC Guidance
9:30 –10:00	Break: Roundtable Topics Marketplace	
10:00 – 11:30 vT	Local GI-LID Installation/ Operation/Maintenance Examples (Danny Hernandez, AMAFCA, Moderator)	Roy Hertweck, Sandia National Labs MESA; David Stoliker, SSCAFCA; Kevin Daggett, Hahn Arroyo Retrofit; Vern Hershberger, UNM
11:30 – 12:30	Lunch: Roundtable Topics Marketplace	
12:30 – 1:00 VT	New Mexico State Engineer Perspective	John D'Antonio, State Engineer
1:00 – 2:30 VT	Local Challenges to GI-LID (Isaac Benton, City Council, Moderator)	George Radnovich, Sites SW; Jess Ward, Office of the State Engineer; Bruce Stidworthy, Bohannan Huston Inc; Brad Bingham, COA
2:30 – 2:45	Break	
2:45 – 3:00	*Roundtables* Topics, Objectives and Outcomes	
3:00 – 4:00	Discussions	Tim Karpoff, Facilitator
4:00 – 5:00 VT	Reports and Discussion	

VT: Videotaped session

100% recycled paper

Speakers

J. Steven Glass, Water Resources Planner, Bernalillo County Public Works Division
Steven Glass is a Water Resources Planner with the Bernalillo County Public Works Division, and oversees the County stormwater quality program and compliance with Phase II NPDES small MS4 stormwater requirements. Steve holds an MS in Environmental Science from NM State University and represents county and municipal governments on the NM Water Quality Control Commission.

Kevin C. Daggett, Stormwater Quality Engineer, Albuquerque Metropolitan Area Flood Control Authority (AMAFCA). Mr. Daggett, a professional engineer and land surveyor, maintains AMAFCA's compliance with their MS4 permit and provides project management for new and innovative AMAFCA stormwater quality facilities. Website: www.amafca.org, Email: kdaggett@amafca.org

Isaac Benton, City Councilor, City of Albuquerque. Mr. Benton is a LEED-accredited architect and licensed general contractor. His practice focuses on redevelopment and infill projects, and sustainable design services. Website: www.cabq.gov; Email: ibenton@cabq.gov

Suzanna Perea, Permits & Technical Section, EPA Region 6 Water Quality Protection Division, Dallas. Ms. Perea coordinates EPA's Region 6 Green Infrastructure Program efforts, promoting improved water quality and quantity, and supporting climate change and energy saving efforts. Website: www.epa.gov/Region6/; Email: perea.suzanna@epa.gov

Tamara Mittman, Office of Wastewater Management, EPA, Washington, DC. Ms. Mittman, an Oak Ridge Institute of Science and Education Fellow, provides technical assistance to the NPDES Municipal Stormwater Program, and general support to the Green Infrastructure Program. Website: www.epa.gov; Email: mittman.tamara@epa.gov

Chris Kloss, Senior Environmental Scientist, The Low Impact Development Center, Beltsville, MD. Mr. Kloss is the LID Center's lead on environmental policy issues, evaluating how regulatory approaches and incentives can be used for comprehensive environmental protection strategies. Website: www.lowimpactdevelopment.org; Email: cjkloss@lowimpactdevelopment.org

Thaddeus Lucero, County Manager, Bernalillo County. Mr. Lucero has been County Manager since 2003 and oversees the operation of 25 departments and 2500 employees. He brings nearly 25 years experience in government management to the position, and has overseen several large-scale, historic projects, including the multi-million dollar South Valley Drinking Water Project. Website: www.bernco.gov; Email: manager@bernco.gov

KT Labadie, MCRP/MWR. Ms. LaBadie recently completed a dual-masters degree in Water Resources and Community and Regional Planning at the University of New Mexico. Her research project was a catalyst in the organization of this workshop, and she designed the www.aridlid.org website. Email: ktlabadie@gmail.com

Susie Marbury, Chair, US Green Building Council, New Mexico Chapter. Ms. Marbury, a LEED Accredited Professional, administers the Energy Efficiency and Green Building programs for the State of New Mexico's Energy, Minerals and Natural Resources Department. Website: http://www.emnrd.state.nm.us; Email: susie.marbury@state.nm.us

Nick Kuhn, City Forester, City of Albuquerque. Mr. Kuhn, is an International Society of Arboriculture Certified Arborist with a Municipal Specialization, and a board member of both the Society of Municipal Arborists and the New Mexico State Urban Forestry Council. Website: www.cabq.gov; Email: nkuhn@cabq.gov

Vaikko P. Allen, Southwest Regulatory Manager, Contech Stormwater Solutions. Mr. Allen provides technical guidance on TMDL implementation, hydromodification planning and low impact development. He holds patents for several stormwater BMPs. Website: www.contech-cpi.com; Email: allenv@contech-cpi.com

Roy M. Hertweck, Distinguished Member, Technical Staff, Sandia National Laboratories. Mr. Hertweck has served as Corporate Architect and site planner for SNL. He is a principal contributor to SNL's Long-Range Development Plan and the Campus Design Guidelines. He is a LEED Accredited Professional, and currently the president of the New Mexico Architecture Foundation and a member of the US Green Building Council, NM Chapter. Website: www.sandia.gov; Email: rmhertw@sandia.gov

David Stoliker, Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA). Mr. Stoliker has been a life-long environmentalist, beginning with growing up on a farm in Michigan. His latest project was to construct a LEED-certified (Platinum) addition to SSCAFCA's building, with sufficient solar cells to provide annual "net zero" energy usage. Website: www.sscafca.com; Email: dstoliker@sscafca.com

Vernon Hershberger, Environmental Health Manager, University of New Mexico. Mr. Hershberger manages environmental, health and safety programs at UNM. His interest in realistic (as opposed to utopian) environmental stewardship extends home, where he has installed low-cost greywater and solar PV power systems. Email: hershber@unm.edu.

John D'Antonio, State Engineer, New Mexico Office of the State Engineer. Mr. D'Antonio is a registered professional engineer and has experience in hydraulic design, acequia rehabilitation, water resource management, and water policy development. In his post as State Engineer, he is Secretary of the Interstate Stream Commission, Chairman of the Water Trust Board, and the NM Commissioner to the Rio Grande, Costilla, and Upper Colorado River Compacts. Website: www.ose.state.nm.us.

George Radnovich, ASLA, Senior Principal, Sites Southwest. Mr. Radnovich is a registered landscape architect who has promoted environmentally appropriate landscaping throughout his career. He is a co-founder of both the New Mexico Alliance for Green Development and the Xeriscape Council of New Mexico. Website: www.sites-sw.com; Email: gradnovich@sites-sw.com

Jess Ward, District 1 Supervisor, Office of the State Engineer. Mr. Ward oversees the administration of water rights in the Middle Rio Grand, Bluewater, Estancia, Gallup and Sandia Underground Water Basins. Website: www.ose.state.nm.us; Email: jess.ward@state.nm.us

Bruce Stidworthy, Vice President, Bohannan Huston. Mr. Stidworthy is Vice President and Group Leader in Bohannan Huston's Community Development and Planning group and is responsible for managing all aspects of the civil design effort for a wide range of projects. He is a LEED Accredited Professional. Website: www.bhinc.com; Email: bstidworthy@bhinc.com

Brad Bingham, Hydrology Section Head, Planning Department, City of Albuquerque. Mr. Bingham is the City Engineer's representative on the Development Review Board, the City's Floodplain Administrator, and the City's AMAFCA designee for coordination. Website: www.cabq.gov; Email: bbingham@cabq.gov

Timothy Karpoff, Karpoff & Associates. Mr. Karpoff is an independent consultant with a planning and meeting facilitation practice in Albuquerque since 1992. Email: timkarpoff@msn.com.

Leslie R. Kryder, M.A., M.W.R., Leslie Consulting, LLC. Ms.Kryder completed a Master's of Water Resources in 2009. As a hydrologist, she does water resources planning, water rights research, facilitation and education, and GIS work. Website: www.leslieconsulting.com; Email: Leslie@LeslieConsulting.com

Danny Hernandez, Vice-Chair, AMAFCA. Danny Hernandez has been on the Albuquerque Metropolitan Arroyo Flood Control Authority Board of Directors for 11 years, was a founding member of the Mid-Region Council of Governments Water Resources Board and was a member of the Mid-Rio Grande Water Assembly. He is also a dual degree masters student in Public Administration and Community and Regional Planning at UNM.

General Information

Location - The conference will be held in the Rotunda of the Park Building, 801 University Blvd SE. Entrance is from the west side of the building.

Meals and Snacks - Lunch will be served on both days; breakfast will be served beginning at 7:15 on Wednesday morning and snacks will be served during breaks. Meals and snacks will be served in the Rotunda meeting space.

Parking - Free parking is available in the parking structure on Baseheart Rd. Please do not park in the lot on University Ave.

Restrooms - Restrooms are down the hall from the Rotunda on the right hand side.

Contact Steve Glass, Bernalillo County Public Works Division, for more information: By phone at (505) 224-1673 or by email at sglass@bernco.gov