

**LOWER RIO GRANDE VALLEY TPDES STORMWATER TASK FORCE  
TEXAS A&M UNIVERSITY – KINGSVILLE  
INSTITUTE OF SUSTAINABLE ENERGY & THE ENVIRONMENT  
TEXAS TRANSPORTATION INSTITUTE – TAMU-COLLEGE STATION  
ARROYO COLORADO WATERSHED PARTNERSHIP**

TAMU-Kingsville  
Citrus Research Center  
321 N. International Blvd.  
Weslaco, TX

**LRGV LOW IMPACT  
DEVELOPMENT  
OUTREACH, EDUCATION  
AND DEMONSTRATION  
PROGRAM**

Register On-Line at:

[https://moneyconnect.tamuk.edu/C20209\\_ustores/  
web/store\\_cat.jsp?STOREID=122&CATID=218](https://moneyconnect.tamuk.edu/C20209_ustores/web/store_cat.jsp?STOREID=122&CATID=218)

**CONFERENCE INFORMATION:**

**MAY 16-20, 2016**

**LA ISLA GRAND RESORT  
SOUTH PADRE ISLAND, TX**

<http://stormwater.tamuk.edu>

**Instructors:**

Kim D. Jones, P.E., Ph.D., TAMU-Kingsville  
Beverly Storey, PLA, TAMU-College Station

This project has been funded through  
Section 319 of the Clean Water Act.



City of La Feria  
Recreational Center LID  
Pervious Paver Project



City of Weslaco Rain  
Harvesting System Weslaco  
Library LID Project



Constructed Wetlands  
Valley Nature Center  
Weslaco, TX



South Texas College  
Biofilter/Bioretention  
System, McAllen, TX

**INTRODUCTION TO LOW  
IMPACT DEVELOPMENT -  
BIORETENTION BEST  
MANAGEMENT PRACTICE  
PLANNING, DESIGN AND  
IMPLEMENTATION COURSE**

*May 17, 2016*

*8:30 am to 5:00 pm*

*Isla Grand Resort, South Padre Island, TX*

For information contact  
**TAMU-KINGSVILLE** at  
[kujg2004@tamuk.edu](mailto:kujg2004@tamuk.edu)

*\$225.00 per person*

*\$95.00 for Task Force Members*

**LRGV LID Project Team:**

Javier Guerrero, E.I.T., M.S., Ph.D. Student, TAMU-Kingsville  
Augusto Sanchez Gonzalez, M.S., CFM, TAMU-Kingsville  
Jose Hinojosa, SCID#15, LRGV TPDES Stormwater Task Force Chair

CEU and PDU certificates available upon request.  
Earn 6 CECs from TFMA for CFM certification.

# May 17, 2016 - BIORETENTION BMP

8:00 AM	Registration
8:30 AM (Beverly Storey)	<p>Guest Speaker: Dr. Kim D. Jones, P.E. – Chair, Environmental Engineering Department Frank D. Dotterweich College of Engineering, Texas A&amp;M University – Kingsville - Welcome</p> <ul style="list-style-type: none"> <li> Introduction of Speakers, Staff, Sponsors and Programs</li> <li> Introduction of Instructors</li> <li> LRGV TPDES Stormwater Task Force</li> </ul>
8:45 AM (Beverly Storey)	<p><b>UNIT 1 – INTRODUCTION</b></p> <ul style="list-style-type: none"> <li> Learning Outcomes</li> <li> Regulatory Overview – Stormwater Management Programs</li> <li> MS4 Regulations</li> <li> Impacts of Development</li> <li> Introduction to Low Impact Development</li> <li> LID Systems</li> <li> Lower Rio Grande Valley LID Demonstration projects</li> </ul>
10:00 AM	Break
10:15 AM (Beverly Storey)	<p><b>UNIT 2 – LID PHILOSOPHY, PRINCIPLES AND PRACTICES</b></p> <ul style="list-style-type: none"> <li> LID Goals &amp; LID Techniques</li> <li> LEED</li> </ul>
12:00 PM (Dr. Kim Jones)	<p>Lunch (on site) Guest Speaker: Dr. Kim D. Jones, P.E. Topic: “LRGV’s LID Program”</p>
1:00 PM (Beverly Storey)	<p><b>UNIT 3 – LID SITE PLANNING</b></p> <ul style="list-style-type: none"> <li> Conventional vs. LID</li> <li> Planning</li> <li> Site Development Goals</li> <li> Site Design</li> <li> Hydrology</li> <li> Treatment Trains</li> <li> Pretreatment</li> <li> Operation &amp; Maintenance</li> <li> Localized Flood Control and Water Quality Treatment</li> <li> LID Selection Criteria</li> </ul>
2:00 PM (Beverly Storey)	<p><b>UNIT 4 – LID HYDROLOGIC ANALYSIS BASICS</b></p> <ul style="list-style-type: none"> <li> Hydromodification, functional landscape, hydrologic analysis</li> <li> Localized Flood Control and Water Quality Treatment</li> <li> Modeling</li> <li> Rational Method, LID Analysis, Curve Number</li> <li> Guidance</li> <li> Using LID to Minimize Localized Flooding</li> </ul>
3:00 PM	Break
3:10 PM (Beverly Storey)	<p><b>UNIT 5 – BIORETENTION</b></p> <ul style="list-style-type: none"> <li> Design Criteria</li> <li> LEED</li> <li> Benefits/Limitations</li> <li> Design Steps</li> <li> Key Design/Consideration issues</li> <li> Retrofit Examples</li> <li> Treatment Train</li> </ul>
4:00 PM (Beverly Storey)	<p><b>UNIT 6 – LID DESIGN PROBLEM</b></p> <ul style="list-style-type: none"> <li> Sample Problem</li> <li> Work in Teams</li> <li> Discussion</li> </ul>
5:00 PM	END OF DAY



Dr. Kim David Jones, P.E., is currently serving as Professor of the Environmental Engineering Department at Texas A&M University Kingsville, and Director of the Institute for Sustainable Energy and the Environment (ISEE). Dr. Jones received his BS Degree from the USMA at West Point in General Engineering, a Masters Degree from University of Texas at Austin in Petroleum Engineering, and Masters and Doctoral Degrees in Environmental Engineering from Georgia Tech. He worked for 11 years as a production engineer for Atlantic Richfield Company in Texas, Louisiana and overseas in Indonesia. Subsequently, he worked for several years as a Staff Engineer for Camp, Dresser & McKee in Atlanta, Ga. Dr. Jones has been leading efforts in water quality engineering research and teaching courses for many years focused on ecological engineering approaches to modern environmental planning and watershed management. He has written over 50 technical publications on biofiltration, restoration, constructed wetlands, and water treatment. Dr. Jones has been awarded the 2013 Javelina Alumni Association Distinguished Researcher Award and the 2005 Faculty Lecture Award at Texas A&M University- Kingsville. He is a registered Professional Environmental Engineer in the States of Georgia and Texas.



Beverly J. Storey, RLA is an Associate Research Scientist for the Texas A&M Transportation Institute's (TTI) Environment and Planning Program. Ms. Storey is a Professional Landscape Architect in the State of Texas with a Bachelor of Science degree in Forestry and Master of Landscape Architecture, both from Texas A&M University. She has been employed with TTI over 20 years. Ms. Storey has served as principal investigator or co-principal investigator on numerous research studies sponsored by TxDOT, NCHRP, FHWA, EPA, TCEQ and various state agencies. She has co-authored and taught numerous short-courses on stormwater management during construction activities and low impact development for various sponsors such as the Lower Rio Grande Valley Stormwater Task Force with Texas A&M University at Kingsville, TxDOT, Texas General Land Office, and the South Dakota Department of Transportation's Water Quality Enhancement Program for Construction. A recent project through the Southwest Region University Transportation Center (SWUTC) developed a master plan using portions of the SEC Lab for hands-on LID training. The master plan includes various LID stations such as permeable pavements, bioretention, green roofs, and rainwater harvesting. She is a member of the Transportation Research Board Committees AHD50 Roadside Maintenance and Operations, AFB40 Landscape and Environmental Design, and the AFB50T Task Force on Context Sensitive Solutions.

