

Contact Information

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Lower Rio Grande Valley-Texas Pollutant Discharge Elimination Systems Storm

Water Task Force

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Texas A&M University-Kingsville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 33033-4097; Telephone number 404-679-4501) to award bachelor's, master's and doctoral degrees.



Lower Rio Grande Valley 18th Annual Water Quality Management & Planning Conference

Program

May 16 - 20, 2016

**Isla Grand Resort
South Padre Island, Texas**

www.islagrand.com





FRANK H. DOTTERWEICH COLLEGE OF ENGINEERING
 ENVIRONMENTAL ENGINEERING
 700 UNIVERSITY BLVD., MSC 213
 KINGSVILLE, TX 78363-8202
 PH 361/593-2187 • FAX 361/593-2069

May 16, 2016

Greetings,

On behalf of the Institute for Sustainable Energy and the Environment (ISEE), housed in the Frank H. Dotterweich College of Engineering at Texas A&M University-Kingsville, along with the Lower Rio Grande Valley Texas Pollutant Discharge Elimination System (TPDES) Storm Water Task Force and our partners, welcome to our 17th Annual *Lower Rio Grande Valley Water Quality Management & Planning Conference*

ISEE is a sustainability-based environmental research institute at Texas A&M University-Kingsville. ISEE focuses on research topics germane to South Texas and the U.S.-Mexico border region. It is our goal to develop team-based and research inspired programs to train and educate our future engineers. Working with our partners, we have brought together representatives from academia, private industries, environmental groups, research communities and state and federal agencies to be a part of a team exchanging ideas concerning environmental issues impacting coastal and semi-arid regions and the Rio Grande Valley, and transferring that information to the decision makers and stakeholders who influence the economic, social and physical infrastructure along the border region.

ISEE has hosted several key topical conferences with the Lower Rio Grande Valley TPDES Storm Water Task Force. It is my hope that this conference serves as a platform for discussing sustainability issues that are both important and relevant to the Rio Grande Valley. This year the conference topics include the new TPDES MS4 Phase II permit, the Arroyo Colorado Watershed Protection Plan Update, low impact development, the stormwater runoff flow reduction strategies, RESTORE, academia research topics, and many other interesting themes. **Our conference also consists of many estuary topics, a result of the recently formed Laguna Madre Estuary Program.** We hope you consider participating in this event and hope you have an enjoyable and stimulating time at the conference.

Sincerely,

Kim Jones, P.E., Ph.D.
 Director, ISEE
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 Kingsville, Texas 78363
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Conference Schedule

Monday, May 16, 2016 – Federal Grant Writing Workshop. Separate registration required.		
		NAUTILUS
12:00–5:00 (30 min lunch)	Course I	“Federal Funding Grant Writing Workshop” facilitated by Adele Cardenas-Malott, P.E. Senior Policy Advisor & Henry Brewer Environmental Protection Specialist Water Quality Protection Division EPA Region 6, Dallas, TX *Lunch included

Tuesday, May 17, 2016 –TFMA Course and Exam & Low Impact Development Design Course. Separate registration required. Must join TFMA to sit in during Exam.		
		SUNDIAL
9:00–4:00 (30 min lunch)	Course II	Floodplain Management Review Course* Thomas W. Mountz, PE, D.WRE, CFM Project Manager - Water Resources Texas Floodplain Management Association (TFMA) 6 CECs/6 PDU *Lunch included
5:30-8:00	Exam	CFM Exam Register at www.tfma.org
		CONCH
7:30am–6:00pm (30 min lunch)	Course III	Soil Erosion Pollution Awareness (SEPA) Program Funded by IBWC, Texas Clean Rivers and the EPA and TCEQ Clean Water Act NPS 319 Program Low Impact Development (LID) Planning & Design Course* Beverly Storey, P.L.A. Texas A&M Transportation Institute College Station, TX & Kim D. Jones, P.E., Ph.D. Institute for Sustainable Energy & the Environment (ISEE) - Director Texas A&M University-Kingsville 4 CECs (TFMA CFM)/8 PDU *Lunch included
6:30 pm-8:00		FOYER Exhibitor setup (2nd Floor)

Tuesday, May 17, 2016 – Pre-Conference Activities		
6–7:00 pm	Registration	PALM GRAND BALLROOM RECEPTION AREA (2nd Floor)
		Early Registration, 2 nd floor
6:00 pm	Meeting	BOARDROOM
		High School Track – Volunteer Meeting, 2 nd floor
7:00 pm	Dinner	WINDJAMMER’S BEACHFRONT CAFÉ (2 nd Floor)
		EPA - TAMUK - TASK FORCE DINNER EVENT
Conference begins.		
Wednesday, May 18, 2016 – Plenary – Conference Theme		
Welcome, Guest Speakers and Keynote Speaker		
Group Session 0 8:00-10:15	ROYAL	MAJESTIC
	<p>Stormwater 0 – Plenary, Welcome, and Keynote Chair: Kim D. Jones, Ph.D., P.E., Director, ISEE, TAMUK Vice-Chair: Jose Hinojosa, Santa Cruz Irrigation District #15, Chairperson Lower Rio Grande Valley TPDES Storm Water Task Force</p>	
Plenary Welcome 8:00-8:15	<p>“Celebrating 18 years of Water Research in the Lower Rio Grande Valley” Kim D. Jones, P.E., Ph.D., Director Institute for Sustainable Energy and the Environment Frank H. Dotterweich College of Engineering Texas A&M University-Kingsville</p>	
Plenary Theme Speaker 8:15-8:30	<p>“The LRGV Stormwater TPDES Task Force – History and Beyond” José Hinojosa, REM Chairperson Lower Rio Grande Valley (LRGV) Texas Pollutant Discharge Elimination System (TPDES) Stormwater Task Force Founded 1998</p>	
Plenary Guest 8:30-8:45	<p>“Texas Floodplain Management Association Initiatives” Thomas W. Mountz, PE, D.WRE, CFM Project Manager - Water Resources Texas Floodplain Management Association (TFMA) State Board of Directors – Treasurer</p>	
Plenary Theme Speaker 8:45-9:05	<p>“Lower Rio Grande Valley Low Impact Development Program” Augusto Sanchez-Gonzales, MS, CFM Research Engineering Associate I Texas A&M University-Kingsville</p>	
Plenary Keynote Speaker 9:05-9:35	<p>“Region 6 Water Priorities at EPA” David Garcia, Deputy Director Water Quality Protection Division EPA Region 6, Dallas, TX</p>	

Plenary Speaker 9:35-9:45	<p>“The Nuts & Bolts of Public Works, Using TPWA as an Asset” Carlos A. Sanchez, P.E., CPM Public Works Director City of McAllen President State Board of Texas Public Works Association (TPWA)</p>	
Plenary Speaker 9:45-10:00	<p>“Serving the Civil Engineering Community through ASCE” Lucas Castillo, Jr., P.E. Civil Engineering Department University of Texas – Rio Grande Valley American Society of Civil Engineers (ASCE) Rio Grande Valley Branch President & Dora Marin-Robles, P.E. American Society of Civil Engineers Rio Grande Valley Branch Branch Section Director</p>	
Plenary Keynote Speaker 10:00-10:15	<p> The Honorable Eddie Lucio III State Representative District #38 Committee Member: Natural Resources, Land & Resource Management, and Coastal Barrier System</p>	
	<p> </p>	
10:15-10:30	<p>FOYER Networking Coffee Break, Exhibits and Posters</p>	
Group Session I 10:15-12:15	ROYAL	MAJESTIC
	<p>Stormwater Ia –TPDES, NPDES and Stormwater Management Chair: Ernesto Solis, Stormwater Specialist, City of Alamo Vice Chair: Melisa Gonzales, Stormwater Manager, City of Alamo</p>	<p>Stormwater Ib – Advanced Topics Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D. Environmental Engineering, TAMUK</p>
	<p>“TCEQ MS4 Program Update” Rebecca Villalba Team Leader Stormwater & Pretreatment Team Water Quality Division TCEQ Austin, TX</p>	<p>“Impact of Variability in Bioretention Cells” Rebecca Chavez, E.I.T., CFM, Ph.D. Water Resources CP&Y, Inc. Austin, TX</p>

	<p><i>“2016 NPDES Stormwater Proposed MS4 General Permit Remand Rule”</i> Nelly Smith Municipal Stormwater Coord. EPA Region 6, Permits and Technical Assistance Section NPDES Permits & TMDLs Branch</p> <p><i>“MS4 Evaluations in Oklahoma”</i> Carrie Evenson, P.E., Ph.D. Oklahoma Department of Environmental Quality Oklahoma City, OK</p> <p><i>“CBP3 - Community Based Public Private PartnershipPrince George County successes and lessons learned, paying for GI”</i> Adele Cardenas-Malott, P.E. Senior Policy Advisor EPA Region 6, Dallas, TX</p>	<p><i>“Potential of Biochar as a Filter Media for Stormwater Applications”</i> Jihoon Kang, Ph.D. School of Earth, Environmental and Marine Sciences University of Texas - Rio Grande Valley Edinburg, TX</p> <p><i>“Waste Water Management”</i> Rajan Khatri Industrial Management MS Student Texas A&M University-Kingsville</p> <p><i>“Numerical modeling of Hidalgo County Drainage Canal water quality transport”</i> Jungseok Ho, Ph.D. Civil Engineering Department Univ. of Texas – Rio Grande Valley Edinburg, TX</p>
	SABAL	PARADISE
12:15-1:15 Lunch	MC: Joe Hinojosa General Manager Santa Cruz Irrigation District #15	
12:30-12:45 Keynote Speaker	<i>“Linkages between the Successes of the Coastal Bend Estuary Program and Water Quality Management Planning”</i> Ray Allen (invited) Executive Director Coastal Bend Bays & Estuaries Program Corpus Christi, TX	
	ROYAL	MAJESTIC
Group Session II 1:15-3:00	Stormwater II – Estuary Panel Discussion Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP Vice Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP	
	LOWER LAGUNA MADRE ESTUARY PROGRAM PANEL DISCUSSION PRESENTERS:	
	<i>“Introduction”</i> Sarah Bernhardt, Ph.D. Program Manager Texas Commission on Environmental Quality Galveston Bay Estuary Program	
	<i>“Laguna Madre Estuary Program”</i> Kim D. Jones, P.E., Ph.D., Director Institute for Sustainable Energy and the Environment Frank H. Dotterweich College of Engineering Texas A&M University-Kingsville	

	<i>“What the Estuary Program Means for You”</i> Douglas Jacobson Gulf of Mexico Program Regional Program Manager National Estuary Program Regional Program Manager EPA Region 6 Dallas, TX	
	<i>“Estuary Programs in Texas: Vehicles of Action for Society and Environment”</i> Carla G. Guthrie, Ph.D. Director Surface Water Division Texas Water Development Board	
	<i>“Leveraging Resources with National Estuary Programs”</i> Brian Koch Regional Watershed Coordinator Texas State Soil and Water Conservation Board Wharton, TX	
	----- Honorable David A. Garza County Commissioner District #3 Cameron County San Benito, TX -----	
	Facilitated by: David Mendez Bickerstaff, Heath, Delgado, Acosta LLP Austin, TX	
	FOYER	
3:00-3:15	Networking Coffee Break, Exhibits and Posters	
	ROYAL	MAJESTIC
Group Session III 3:15-5:00	Stormwater III – Arroyo Colorado Watershed Protection Plan Update Panel Discussion Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP Vice Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP	
	ARROYO COLORADO WATERSHED PROTECTION PLAN UPDATE PANEL DISCUSSION PRESENTERS:	
	<i>“EPA’s Role in Watershed Protection Plan Development Under the Nonpoint Source Program”</i> Mike Bira EPA NPS Program EPA Region 6, Dallas, TX & Henry Brewer Environmental Protection Specialist Water Quality Protection Division EPA Region 6, Dallas, TX	

	<p><i>“Watershed Planning in Texas”</i> Ashley Wendt NPS Project Manager Texas State Soil and Water Conservation Board Temple, TX</p> <p><i>“Arroyo Colorado Water Quality and Watershed Protection Plan Update”</i> Tim Cawthon Natural Resources Specialist Texas Commission on Environmental Quality NPS Program, Austin, TX</p> <p><i>“Arroyo Colorado Water Quality and Watershed Protection Plan Update”</i> Jaime Flores, P.G., Arroyo Colorado Watershed Coordinator Arroyo Colorado Watershed Partnership, Weslaco, TX</p> <hr/> <p>Facilitated by: Emily Rogers, Attorney Bickerstaff Heath Delgado Acosta LLP Austin, TX</p>
Social 5:30-6:00	PALM GRAND BALLROOM
	Networking/Fellowship
Dinner 6:00-8:00	<p>“Engineering Education, Technology Development and New Initiatives in the Valley”</p> <p>MC: Kim D. Jones, P.E., Ph.D. Director, Institute for Sustainable Energy and the Environment Frank H. Dotterweich College of Engineering Texas A&M University-Kingsville</p> <p><i>“Water Quality Education and Research at Texas A&M University-Kingsville”</i> Dr. Lee Clapp, P.E. Chairperson Environmental Engineering Frank H.. Dotterweich College of Engineering Kingsville, TX</p> <p><i>“RGV Initiative”</i> Maria Oralia De Los Reyes, PhD Frank H.. Dotterweich College of Engineering Kingsville, TX</p> <p><i>“We Are One: Building a Sustainable and Resilient Community in the Lower Rio Grande Valley”</i> Dr. Andrew Ernest, P.E. Chairperson Civil Engineering Department The University of Texas-Rio Grande Valley Edinburg, TX</p>

	<p><i>“Local Educational Engagement and Experiential Learning in Stormwater Management”</i> Dr. Frank J. Dirrigl, Jr. Associate Professor of Environmental Science The University of Texas-Rio Grande Valley Edinburg, TX</p> <p><i>“South Texas College’s STEM Initiatives and Leadership in the Rio Grande Valley”</i> Dr. Ali Esmaili Dean of Math, Science, and Bachelor’s Degree Programs South Texas College McAllen, TX</p>				
Thursday, May 19, 2016 - TPDES, LID, Research and Funding					
	<table border="1" style="width: 100%;"> <tr> <th style="width: 50%; text-align: center;">ROYAL</th> <th style="width: 50%; text-align: center;">MAJESTIC</th> </tr> <tr> <td colspan="2" style="text-align: center;"> Stormwater IV – National Initiative Panel Discussion Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP Vice Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP </td> </tr> </table>	ROYAL	MAJESTIC	Stormwater IV – National Initiative Panel Discussion Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP Vice Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP	
ROYAL	MAJESTIC				
Stormwater IV – National Initiative Panel Discussion Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP Vice Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP					
Group Session IV 8:00-10:00	<p style="text-align: center;">VALLEY-WIDE INTEGRATED MONITORING AND FORECASTING FOR FLOOD RESPONSE AND ECONOMIC DEVELOPMENT</p> <p style="text-align: center;">PRESENTERS:</p> <p><i>“Introduction - What is Valley-Wide Integrated Monitoring and Forecasting for Flood Response and Economic Development”</i> Andrew Ernest., P.E., Ph.D., Chairperson Civil Engineering University of Texas-Rio Grande Valley</p> <p><i>“Cyberinfrastructure for Regional Water Monitoring and Modeling”</i> Andrew Ernest., P.E., Ph.D., Chairperson Civil Engineering University of Texas-Rio Grande Valley <i>“National Flood Interoperability Experiment”</i></p> <p><i>“National Water Model”</i> Tim Whiteaker, Ph.D. Research Scientist Center for Research in Water Resources The University of Texas at Austin</p> <p><i>“The Rivers & Estuaries Observation Network”</i> Christopher Fuller, Ph.D. Research, Applied Technology and Education Services Potsdam, NY</p> <p><i>“Conjunctive Surface Water-Groundwater Management, and Potential Flood Control with GMS Modeling”</i> Chu-Lin Cheng, Ph.D. Civil Engineering Department Univ. of Texas – Rio Grande Valley Edinburg, TX</p>				

	<p style="text-align: center;">“Topic” Tushar Sinha, Ph.D. Environmental Engineering Texas A&M University-Kingsville Kingsville, TX</p> <p style="text-align: center;"><i>“Lower Laguna Madre Coastal Flow Circulation Model”</i> Jungseok Ho, Ph.D., P.E. Civil Engineering Department University of Texas Rio Grande Valley, Edinburg TX</p> <p style="text-align: center;"><i>“Disaster Mitigation and Warning System”</i> William Donner, Ph.D. Sociology Department Univ. of Texas – Rio Grande Valley Edinburg, TX</p> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;">Facilitated by: Emily Rogers, Attorney Bickerstaff Heath Delgado Acosta LLP Austin, TX</p>	
10:00-10:15	FOYER	
	Networking Coffee Break, Exhibits and Posters	
Group Session V 10:15-12:00	ROYAL	MAJESTIC
	<p style="text-align: center;">Stormwater Va – Estuary Topics Chair: Paula Rodriguez, City Planning and Community Development Director, City of La Feria Vice Chair: Raul Garcia, Stormwater, City of Los Fresnos</p>	<p style="text-align: center;">Stormwater Vb – Regulatory Topics Chair: Rudy Garza, CPM, Public Works Director, City of Alton Vice Chair: Raul Gomez, Administrative Assistant to the Honorable David Garza, Cameron County Commissioner</p>
	<p style="text-align: center;"><i>“Trash Free Waters”</i> Douglas Jacobson Gulf of Mexico Program Regional Program Manager National Estuary Program Regional Program Manager EPA Region 6 Dallas, TX</p> <p style="text-align: center;"><i>“Over 30 Years of Freshwater Inflow Research in the Lower Laguna Madre Estuary”</i> Caimée Schoenbaechler Environmental Flows Specialist Bays & Estuaries Program Texas Water Development Board</p>	<p style="text-align: center;"><i>“A City’s Liability for Flooding”</i> Emily Rogers Attorney Bickerstaff Heath Delgado Acosta LLP Austin, TX</p> <p style="text-align: center;"><i>“Multi Sector General Permit”</i> Rebecca Villalba Team Leader Stormwater & Pretreatment Team Water Quality Division Texas Commission on Environmental Quality Austin, TX</p>

	<p style="text-align: center;"><i>“Galveston Bay Estuary Program”</i> Sarah Bernhardt, Ph.D. Program Manager Texas Commission on Environmental Quality Galveston Bay Estuary Program</p>	<p style="text-align: center;"><i>“A Legislative Preview”</i> Claudia Russell Attorney Bickerstaff Heath Delgado Acosta LLP, Austin, TX</p>
Lunch 12:00-1:15	SABAL	PARADISE
	MC: Joe E. Vega Mayor, City of Port Isabel	
12:15-12:45 Keynote Speaker	Ron Curry Regional Administrator EPA Region 6, Dallas, TX	
Group Session VI 1:15-3:15	ROYAL	MAJESTIC
	<p style="text-align: center;">Stormwater VIa – MS4 Topics Chair: Jose Figueroa, Stormwater Division, City of Brownsville Vice Chair: Robert Valenzuela, City of San Benito</p>	<p style="text-align: center;">Stormwater VIb – Stormwater Topics Chair: David Salinas, CFM, Public Utilities Director, City of San Juan Vice Chair: Israel Gaona, CFM Engineer, Planning Department City of Weslaco</p>
	<p style="text-align: center;"><i>“On-line Data Management”</i> Ty Garmon CBI Systems LJA Engineering, Inc. & George Culver Director of GIS LJA Engineering, Inc.</p>	<p style="text-align: center;"><i>“The EPA Approach to Water Quality Protection Through Watershed Management”</i> Mike Bira EPA NPS Program EPA Region 6, Dallas, TX</p> <p style="text-align: center;"><i>“City of Laredo’s Illicit Discharge Detection and Elimination Program for TPDES Compliance”</i> Ivan Santoyo Environmental Services Department City of Laredo</p>
	<p style="text-align: center;"><i>“The use of web-based NPDES-MS4 Permit Manager to address the Environmental and Economic Challenges in Puerto Rico”</i> Javier Vélez-Arocho EcoStahlia Environmental Consultants San Juan, Puerto Rico</p>	<p style="text-align: center;"><i>“Using Green Infrastructure in new housing developments in the LRGV to create active public spaces.”</i> Hugo Colón Acevedo Senior Design Manager, buildingcommunityWORKSHOP & Nick Mitchell-Bennett Executive Director, Community Development Corporation of Brownsville, TX</p>
	<p style="text-align: center;"><i>“Funding for MS4s”</i> John Porter, CFM Director, Environmental Services Department City of Laredo</p>	

		<p align="center"><i>"Topic"</i> Beverly Storey, P.L.A. Texas A&M Transportation Institute College Station, TX</p>
3:15-3:30	FOYER	
	Networking Coffee Break, Exhibits and Posters	
3:15-3:30	NAUTILUS	
	POSTER WINNER ANNOUNCEMENTS	
Group Session VII 3:30-5:00	ROYAL	MAJESTIC
	Stormwater VII – Funding Panel Discussion Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP Vice Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP	
	FUNDING OPPORTUNITIES USEPA PROGRAMS & TEXAS WATER DEVELOPMENT BOARD STORMWATER FUNDING PROGRAMS PANEL DISCUSSION PRESENTERS: <i>"EPA Funding Opportunities in the Lower Rio Grande Valley"</i> Henry Brewer Environmental Protection Specialist EPA, Region 6 Dallas, TX <i>"LID Cost Savings Incentives"</i> Mark Evans Clean Water SRF Program Coordinator Texas Water Development Board Austin, TX & Lacey Bodnar, CFM Project Manager Texas Water Development Board Austin, TX <i>"Texas Nonpoint Source Grant Program"</i> Ashley Wendt NPS Project Manager Texas State Soil and Water Conservation Board Temple, TX & Tim Cawthon NPS Project Manager Texas Commission on Environmental Quality Austin, TX	

	Facilitated by: David Mendez Bickerstaff, Heath, Delgado, Acosta LLP Austin, TX
	KEY LARGO ROOM- FIRST FLOOR
	6th Annual Javelina Engineering Alumni Social
Alumni Social 5:30 – 8:00pm	Alumni Social MC: Justin A. Muñoz Director, Alumni Affairs Texas A&M University-Kingsville
8:00 - 10:00pm	QUARTERDECK BAR Hammerhead Deck Luau Outdoor Party – Food and Music
Friday, May 20, 2016 – Laguna Madre Tour – Hosted by Lower Laguna Madre Estuary Program – For more information, please sign up at the Registration Table between May 16 and May 19.	
Boardroom	
Saturday, May 21, 2016 – Task Force Meeting, 11 am	