Contact Information

Institute for Sustainable Energy and the Environment (ISEE)

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Lower Rio Grande Valley-Texas Pollutant Discharge Elimination Systems Storm Water Task Force

MSC 213 700 University Blvd. Kingsville, TX 78363 361-593-4330 kuig2004@tamuk.edu



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





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 18th 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

Texas A&M University-Kingsville MSC 188, 700 University Boulevard

Kingsville, Texas 78363 Phone: (361) 593-2187 Fax: (361)593-2069

email: kfkdj00@tamuk.edu



Conference Schedule

Monday, May 16, 2016 – Federal Grant Writing Workshop. Separate registration required.

PARADISE

12:00–5:00 (30 min lunch)

Course I Senior Policy Advisor & Henry Brewer Environmental 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	Course II	Floodplain Management Review Course*	
		Thomas W. Mountz, PE, D.WRE, CFM	
(30 min lunch)		Project Manager - Water Resources	
		Texas Floodplain Management Association (TFMA)	
		6 CECs/6 PDUs	
		*Lunch included	
5:30-8:00	Exam	CFM Exam	
3.30-0.00		Register at www.tfma.org	
		CONCH	
8:30am– 5:00pm	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.LA. Texas A&M Transportation Institute College Station, TX	
(30 min lunch)		& &	
		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 PDUs	
		*Lunch included	
		FOYER	
6:30 pm-8:00		Exhibitor setup (2 nd Floor)	

	 	6 – 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 (2nd Floor)		
	a h aoina	EPA - TAMUK - TASK FORCE DINNER EVENT		
Conferenc		016 – Plenary – Conference Theme		
		ters, Key Topics and Keynote Speakers		
7:00 am -	Guest Speak	FOYER		
8:00		Breakfast		
Group		ROYAL MAJESTIC		
Session 0		Stormwater 0 – Plenary, Welcome, and Keynote		
8:00-10:15	Vice	Chair: Kim D. Jones, Ph.D., P.E., Director, ISEE, TAMUK Chair: Jose Hinojosa, Santa Cruz Irrigation District #15, Chairperson		
	V ICE-	Lower Rio Grande Valley TPDES Storm Water Task Force		
		"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			
Plenary Welcome				
8:00-8:15				
	Texas A&M University-Kingsville			
	"The I	LRGV Stormwater TPDES Task Force – History and Beyond"		
Plenary	José Hinojosa, REM			
Theme Speaker	Lower Pio G	Chairperson rande Valley (LRGV) Texas Pollutant Discharge Elimination System		
8:15-8:30	Lower Kio Gi	(TPDES) Stormwater Task Force		
	Founded 1998			
		'Texas Floodplain Management Association Initiatives''		
	Thomas W. Mountz, PE, D.WRE, CFM			
Plenary Guest	Project Manager - Water Resources			
8:30-8:45	Texas Floodplain Management Association (TFMA) State Board of Directors – Treasurer			
	"Lawren Bio County Valley Lawrent Davidson			
Plenary	"Lower Rio Grande Valley Low Impact Development Program" Augusto Sanchez-Gonzales, MS, CFM			
Theme	Research Engineering Associate I			
Speaker 8:45-9:05		Texas A&M University-Kingsville		
		"Region 6 Water Priorities at EPA"		
Plenary Keynote		David Garcia, Deputy Director		
Speaker		Water Quality Protection Division		
9:05-9:35		EPA Region 6, Dallas, TX		
		LI A Region 0, Danas, 1 A		

Plenary Speaker 9:35-9:45	Carlos A. Sand Public Wo City of Pres	Vorks, Using TPWA as an Asset" Chez, P.E., CPM rks Director McAllen sident Works Association (TPWA)	
Plenary Speaker 9:45-10:00	Lucas Cast Civil Engineer University of Texas American Society of C Rio Grande	ng Community through ASCE" illo, Jr., P.E. ing Department - Rio Grande Valley Civil Engineers (ASCE) Valley Branch sident &	
	American Society Rio Grande	n-Robles, P.E. of Civil Engineers Valley Branch tion Director	
Plenary Keynote Speaker 10:00-10:15	State Represent Committee Member: Natura	Eddie Lucio III ative District #38 I Resources, Land & Resource oastal Barrier System TEXAS ASM KINGSVILLE	
	FOYER		
10:15-10:30	Networking Coffee Break, Exhibits and Posters		
Group	ROYAL	MAJESTIC	
Session I 10:15-12:15	Stormwater Ia –TPDES, NPDES and Stormwater Management Chair: Ernesto Solis, Stormwater Specialist, City of Alamo Vice Chair: Melisa Gonzales, Stormwater Manager, City of Alamo	Stormwater Ib – Advanced Topics Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D. Environmental Engineering, TAMUK	
	"TCEQ MS4 Program Update" Rebecca Villalba Team Leader Stormwater & Pretreatment Team	"Impact of Variability in Bioretention Cells" Rebecca Chavez, E.I.T., CFM, Ph.D. Water Resources	

Water Quality Division TCEQ

Austin, TX

CP&Y, Inc.

Austin, TX

	"2016 NPDES Stormwater Proposed MS4 General Permit Remand Rule" Nelly Smith Municipal Stormwater Coord. EPA Region 6, Permits and Technical Assistance Section NPDES Permits & TMDLs Branch "MS4 Evaluations in Oklahoma" Carrie Evenson, P.E., Ph.D. Oklahoma Department of Environmental Quality Oklahoma City, OK "CBP3 - Community Based Public Private PartnershipPrince George County successes and lessons learned, paying for GI" Adele Cardenas-Malott, P.E. Senior Policy Advisor EPA Region 6, Dallas, TX	"Potential of Biochar as a Filter Media for Stormwater Applications" Jihoon Kang, Ph.D. School of Earth, Environmental and Marine Sciences University of Texas - Rio Grande Valley Edinburg, TX "Numerical modeling of Hidalgo County Drainage Canal water quality transport" Jungseok Ho, Ph.D. Civil Engineering Department Univ. of Texas – Rio Grande Valley Edinburg, TX "Performance Testing of Coagulants to Reduce Stormwater Runoff Turbidity" Beverly Storey, P.LA. Texas A&M Transportation Institute College Station, TX	
	SABAL	PARADISE	
12:15-1:15 Lunch	General	e Hinojosa Manager ation District #15	
12:30-12:45 Keynote Speaker	"Linkages between the Successes of the Coastal Bend Estuary Progra and Water Quality Management Planning" Ray Allen Executive Director Coastal Bend Bays & Estuaries Program Corpus Christi, TX		
Group	ROYAL	MAJESTIC	
Session II 1:15-3:00	Stormwater II – Estuary Panel Discussion Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP, Austin, TX Vice Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP, Austin, TX		
	PANEL DI PRESE "Introd	RE ESTUARY PROGRAM SCUSSION NTERS: duction" Mendez	
	Bickerstaff, Heath, l	Mendez Delgado, Acosta LLP in, TX	
	Kim D. Jones, P. Institute for Sustainable E Frank H. Dotterweich	Estuary Program" E., Ph.D., Director nergy and the Environment College of Engineering versity-Kingsville	

"Galveston Bay Estuary Program: A catalyst for partnerships and collaboration" Sarah Bernhardt, Ph.D. Program Manager Texas Commission on Environmental Quality Galveston Bay Estuary Program "What the Estuary Program Means for You" **Douglas Jacobson** Gulf of Mexico Program Regional Program Manager National Estuary Program Regional Program Manager EPA Region 6 Dallas, TX "Estuary Programs in Texas: Vehicles of Action for Society and Environment" Carla G. Guthrie, Ph.D. Director Surface Water Division Texas Water Development Board "Leveraging Resources with National Estuary Programs" 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 Group **ROYAL** MAJESTIC Session III Stormwater III - Arroyo Colorado Watershed Protection Plan Update Panel Discussion 3:15-5:00 Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP, Austin, TX Vice Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP, Austin, TX ARROYO COLORADO WATERSHED PROTECTION PLAN UPDATE PANEL DISCUSSION

	PRESENTERS: "EPA's Role in Watershed Protection Plan Development Under the Nonpoint Source Program" Mike Bira EPA NPS Program EPA Region 6, Dallas, TX & Henry Brewer Environmental Protection Specialist Water Quality Protection Division EPA Region 6, Dallas, TX "Watershed Planning in Texas" Ashley Wendt NPS Project Manager Texas State Soil and Water Conservation Board Temple, TX "Arroyo Colorado Water Quality and Watershed Protection Plan Update"
	Tim Cawthon NPS Project Manager Texas Commission on Environmental Quality NPS Program, Austin, TX
	"Arroyo Colorado Water Quality and Watershed Protection Plan Update" Jaime Flores, P.G., Arroyo Colorado Watershed Coordinator Arroyo Colorado Watershed Partnership, Weslaco, TX
	Facilitated by: Emily Rogers, Attorney Bickerstaff Heath Delgado Acosta LLP Austin, TX
Social 5:30-6:00	PALM GRAND BALLROOM
5:30-0:00	Networking/Fellowship
Dinner 6:00-8:00	"Engineering Education, Technology Development and New Initiatives in the Valley"
	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
	"Water Quality Education and Research at Texas A&M University-Kingsville" Dr. Lee Clapp, P.E. Chairperson Environmental Engineering Frank H Dotterweich College of Engineering Kingsville, TX

"RGV Initiative"

Maria Oralia De Los Reyes, PhD

Frank H.. Dotterweich College of Engineering Kingsville, TX

"We Are One: Building a Sustainable and Resilient Community in the Lower Rio Grande Valley"

Dr. Andrew Ernest, P.E., BCEE, D.WRE

Chairperson

Civil Engineering Department
The University of Texas-Rio Grande Valley
Edinburg, TX

"Local Educational Engagement and Experiential Learning in Stormwater Management"

Dr. Frank J. Dirrigl, Jr.

Associate Professor of Environmental Science The University of Texas-Rio Grande Valley Edinburg, TX

"South Texas College's STEM Initiatives and Leadership in the Rio Grande Valley"

Dr. Ali Esmaeili

Dean of Math, Science, and Bachelor's Degree Programs South Texas College McAllen, TX

Thursday, May 19, 2016 - TPDES, LID, Research and Funding

7:00 - 8:00 FOYER

Breakfast

ROYAL MAJESTIC

Group

Group Session IV 8:00-10:00

Stormwater IV - National Initiative Panel Discussion

Chair: Emily Rogers, Attorney, Bickerstaff Heath Delgado Acosta LLP, Austin, TX Vice Chair: David Mendez, Bickerstaff, Heath, Delgado, Acosta LLP, Austin, TX

VALLEY-WIDE INTEGRATED MONITORING AND FORECASTING FOR FLOOD RESPONSE AND ECONOMIC DEVELOPMENT

PRESENTERS:

"Introduction - What is the Valley-Wide Integrated Monitoring and Forecasting for Flood Response and Economic Development"

Andrew Ernest., P.E., Ph.D., BCEE, D.WRE

Chairperson Civil Engineering

University of Texas-Rio Grande Valley

"National Water Model"

Tim Whiteaker, Ph.D.

Research Scientist

Center for Research in Water Resources The University of Texas at Austin

"Cyberinfrastructure for Regional Water Monito Andrew Ernest., P.E., Ph.D., BCEE. Chairperson Civil Engineering University of Texas-Rio Grande V "The Rivers & Estuaries Observation. Christopher Fuller, Ph.D. Research, Applied Technology and Educa Potsdam, NY "Conjunctive Surface Water-Groundwater Management, a with GMS Modeling" Chu-Lin Cheng, Ph.D. Civil Engineering Department Univ. of Texas – Rio Grande Valley Edi "Analysis and Forecasting of Flood Events is Tushar Sinha, Ph.D. Environmental Engineering Texas A&M University-Kingsv Kingsville, TX "Lower Laguna Madre Coastal Flow Circus Jungseok Ho, Ph.D., P.E. Civil Engineering Departmen University of Texas Rio Grande Valley, Fi "Disaster Mitigation and Warning S William Donner, Ph.D. Sociology Department Univ. of Texas – Rio Grande Valley Edi			
"The Rivers & Estuaries Observation of Christopher Fuller, Ph.D. Research, Applied Technology and Educa Potsdam, NY "Conjunctive Surface Water-Groundwater Management, of with GMS Modeling" Chu-Lin Cheng, Ph.D. Civil Engineering Department Univ. of Texas – Rio Grande Valley Edi "Analysis and Forecasting of Flood Events in Tushar Sinha, Ph.D. Environmental Engineering Texas A&M University-Kingsv Kingsville, TX "Lower Laguna Madre Coastal Flow Circus Jungseok Ho, Ph.D., P.E. Civil Engineering Department University of Texas Rio Grande Valley, Find the Company of Texas Rio Grande Valley Edi			
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William Donner, Ph.D. Sociology Department Univ. of Texas – Rio Grande Valley Edi	t		
"T" ID I"			
"Final Remarks" Andrew Ernest., P.E., Ph.D., BCEE, Chairperson Civil Engineering University of Texas-Rio Grande V			
Facilitated by: Emily Rogers, Attorney Bickerstaff Heath Delgado Acosta	Facilitated by:		
10:00-10:15 FOYER	·		
Networking Coffee Break, Exhibits at	Networking Coffee Break, Exhibits and Posters		
Group Session V ROYAL	MAJESTIC		
Chair: Paula Rodriguez, City Planning and Chair: Rudy Community Development Director.	r Vb – Regulatory Topics o Garza, CPM, Public Works ector, City of Alton Raul Gomez, Administrative		

				
	"Trash Free Waters"	"Multi Sector General Permit"		
	Douglas Jacobson	Rebecca Villalba		
	Gulf of Mexico Program Regional	Team Leader		
	Program Manager	Stormwater & Pretreatment Team		
	National Estuary Program Regional	Water Quality Division		
	Program Manager	Texas Commission on		
	EPA Region 6	Environmental Quality		
	Dallas, TX	Austin, TX		
		,		
	"Over 30 Years of Freshwater Inflow	"A City's Liability for Flooding"		
	Research in the Lower Laguna Madre	Emily Rogers		
	Estuary"	Attorney		
	Caimee Schoenbaechler	Bickerstaff Heath Delgado Acosta LLP		
	Environmental Flows Specialist	Austin, TX		
	Bays & Estuaries Program			
	Texas Water Development Board			
		"A Legislative Preview"		
	"Galveston Bay Estuary Program"	Claudia Russell		
	Sarah Bernhardt, Ph.D.	Attorney		
	Program Manager	Bickerstaff Heath Delgado Acosta LLP,		
	Texas Commission on	Austin, TX		
	Environmental Quality			
	Galveston Bay Estuary Program			
Lunch	SABAL	PARADISE		
12:00-1:15	MC: Inc	e E. Vega		
	Mayor, City of Port Isabel			
12:15-12:45	Kon G	Ron Curry		
	Regional Administrator			
Keynote	Regional Ac			
Keynote Speaker		lministrator		
Speaker Group	EPA Region	dministrator 6, Dallas, TX		
Speaker	EPA Region ROYAL	Iministrator 6, Dallas, TX MAJESTIC		
Speaker Group	EPA Region ROYAL Stormwater VIa – MS4 Topics	dministrator 6, Dallas, TX MAJESTIC Stormwater VIb – Stormwater Topics		
Speaker Group Session VI	ROYAL Stormwater VIa – MS4 Topics Chair: Jose Figueroa, Stormwater Division,	dministrator 6, Dallas, TX MAJESTIC Stormwater VIb – Stormwater Topics Chair: David Salinas, CFM, Public Utilities		
Speaker Group Session VI	ROYAL Stormwater VIa – MS4 Topics Chair: Jose Figueroa, Stormwater Division, City of Brownsville	MAJESTIC Stormwater VIb – Stormwater Topics Chair: David Salinas, CFM, Public Utilities Director, City of San Juan		
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	"Funding for MS4s" John Porter, CFM Director, Environmental Services Department City of Laredo	"City of Laredo's Illicit Discharge Detection and Elimination Program for TPDES Compliance" Ivan Santoyo Environmental Services Department City of Laredo
3:15-3:30		· ·
	č	eak, Exhibits and Posters
3:15-3:30		TILUS ANNOUNCEMENTS
Group Session VII	ROYAL	MAJESTIC
3:30-5:00	Chair: David Mendez, Bickers Vice Chair: Emily Rogers, Attorney,	anding Panel Discussion taff, Heath, Delgado, Acosta LLP Bickerstaff Heath Delgado Acosta LLP
		TIES USEPA PROGRAMS &
	1	VELOPMENT BOARD
	STORMWATER FU	JNDING PROGRAMS
	DANEI D	ISCUSSION
		ENTERS:
	·	in the Lower Rio Grande Valley "
	Henry	y Brewer
		Protection Specialist
		Region 6 las, TX
	Dan	las, 1A
	"LID Cost Sa	vings Incentives"
		k Evans
		Program Coordinator
		evelopment Board tin, TX
	Aus	un, 1A &
	Lacev Bo	odnar, CFM
		Manager
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	Aus	tin, TX
	"Texas Nonpoint So	ource Grant Program"
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	Tim (& Cawthon
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		tin, 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 (7 am-12 noon)— 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.

Friday, May 20, 2016 (7 pm) - Social, Fish Fry - Beach side of Resort.

Boardroom

Saturday, May 21, 2016 – Task Force Meeting, 11 am Special Guests: Mike Bira, EPA Region 6 NPS Program, Ashley Wendt, TSSWCB NPS Program