Contact Information

Institute for Sustainable Energy and the Environment (ISEE)

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Texas A&M University - Kingsville

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Texas A&M University - Kingsville

Environmental Engineering MSC 213 700 University Blvd. Kingsville, TX 78363 361-593-4330 kaca001@tamuk.edu

katdg00@tamuk.edu

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

MSC 213 700 University Blvd. Kingsville, TX 78363 361-593-4330 kujg2004@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

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 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.		
		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.

	Course II	SUNDIAL
		Floodplain Management Review Course*
9:00-4:00		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
		Register at www.tfma.org
		CONCH
	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
8:30am- 5:00pm		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)

< - 00	D = =	PALM GRAND BALLROOM RECEPTION AREA (2nd Floor)	
6–7:00 pm	Registration	Early Registration, 2 nd floor	
< 00	Martina	BOARDROOM	
6:00 pm	Meeting	High School Track – Volunteer Meeting, 2 nd floor	
	Dinner	WINDJAMMER'S BEACHFRONT CAFÉ (2nd Floo	r)
7:00 pm	Diffici	EPA - TAMUK - TASK FORCE DINNER EVENT	
Conferenc			
		016 – Plenary – Conference Theme	
	, Guest Speakers, Key Topics and Keynote Speakers		
Group Session 0		ROYAL MAJESTIC	
8:00-10:15	Vice-	Stormwater 0 – Plenary, Welcome, and Keynote Chair: Kim D. Jones, Ph.D., P.E., Director, ISEE, TAMUK Chair: Jose Hinojosa, Santa Cruz Irrigation District #15, Chairperson Lower Rio Grande Valley TPDES Storm Water Task Force	
Plenary Welcome 8:00-8:15	"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		
Plenary Theme Speaker 8:15-8:30	"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		
Plenary Guest 8:30-8:45	"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		
Plenary Theme Speaker 8:45-9:05	State Board of Directors – Treasurer "Lower Rio Grande Valley Low Impact Development Program" Augusto Sanchez-Gonzales, MS, CFM Research Engineering Associate I Texas A&M University-Kingsville		
Plenary Keynote Speaker 9:05-9:35		"Region 6 Water Priorities at EPA" David Garcia, Deputy Director Water Quality Protection Division EPA Region 6, Dallas, TX	

Plenary Speaker		orks, Using TPWA as an Asset"	
9:35-9:45	Carlos A. Sanchez, P.E., CPM Public Works Director		
7.55-7.45	City of McAllen		
	-	sident	
		Works Association (TPWA)	
		ng Community through ASCE"	
	Lucas Castillo, Jr., P.E.		
DI.	2	ing Department	
Plenary		- Rio Grande Valley	
Speaker 9:45-10:00		Civil Engineers (ASCE) Valley Branch	
9:45-10:00		rancy Branch	
		&	
		-Robles, P.E.	
	American Society	of Civil Engineers	
	Rio Grande	Valley Branch	
	Branch Sec	tion Director	
Plenary	PA (4)	Eddie Lucio III	
Keynote		ative District #38	
Speaker		l Resources, Land & Resource	
10:00-10:15	Management, and Co	oastal Barrier System	
	Starmwates	TEXAS ASM KINGSVILLE	
10:15-10:30	FOYER		
	Networking Coffee Bre	ak, Exhibits and Posters	
Group Session I	ROYAL	MAJESTIC	
10:15-12:15			
10.15-12.15	Stormwater Ia -TPDES, NPDES and	Stormwater Ib – Advanced Tonics	
10.15-12.15	Stormwater Ia –TPDES, NPDES and Stormwater Management	Stormwater Ib – Advanced Topics Chair: Tushar Sinha. Ph.D.	
10.13-12.13	Stormwater Ia –TPDES, NPDES and Stormwater Management Chair: Ernesto Solis, Stormwater	Chair: Tushar Sinha, Ph.D.	
10.10-12.13	Stormwater Management	Chair: Tushar Sinha, Ph.D.	
10.13-12.13	Stormwater Management Chair: Ernesto Solis, Stormwater	Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D.	
10:13-12:13	Stormwater Management Chair: Ernesto Solis, Stormwater Specialist, City of Alamo	Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D.	
10:12-12:12	Stormwater Management Chair: Ernesto Solis, Stormwater Specialist, City of Alamo Vice Chair: Melisa Gonzales,	Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D.	
10.15-12.15	Stormwater Management Chair: Ernesto Solis, Stormwater Specialist, City of Alamo Vice Chair: Melisa Gonzales,	Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D. Environmental Engineering, TAMUK "Impact of Variability in	
10.15-12.15	Stormwater Management Chair: Ernesto Solis, Stormwater Specialist, City of Alamo Vice Chair: Melisa Gonzales, Stormwater Manager, City of Alamo	Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D. Environmental Engineering, TAMUK "Impact of Variability in Bioretention Cells"	
10.15-12.15	Stormwater Management Chair: Ernesto Solis, Stormwater Specialist, City of Alamo Vice Chair: Melisa Gonzales, Stormwater Manager, City of Alamo "TCEQ MS4 Program Update" Rebecca Villalba Team Leader	Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D. Environmental Engineering, TAMUK "Impact of Variability in Bioretention Cells" Rebecca Chavez, E.I.T., CFM, Ph.D.	
10.15-12.15	Stormwater Management Chair: Ernesto Solis, Stormwater Specialist, City of Alamo Vice Chair: Melisa Gonzales, Stormwater Manager, City of Alamo "TCEQ MS4 Program Update" Rebecca Villalba	Chair: Tushar Sinha, Ph.D. Environmental Engineering, TAMUK Vice Chair: Lee Clapp, P.E., Ph.D. Environmental Engineering, TAMUK "Impact of Variability in	

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	MC: Joe General	Hinojosa Manager ation District #15
12:30-12:45 Keynote Speaker	and Water Quality M Ray Executiv Coastal Bend Bays	f the Coastal Bend Estuary Program lanagement Planning" Allen e Director & Estuaries Program Christi, TX
Group	ROYAL	MAJESTIC
Session II	KOTAL	MINULUIIC
1:15-3:00	Chair: David Mendez, Bickerstaff, He	uary Panel Discussion eath, Delgado, Acosta LLP, Austin, TX staff Heath Delgado Acosta LLP, Austin, TX
	Chair: David Mendez, Bickerstaff, He Vice Chair: Emily Rogers, Attorney, Bicker LOWER LAGUNA MADI PANEL DI	eath, Delgado, Acosta LLP, Austin, TX

	"What the Estuary Progra	am Means for You"
	Douglas Jaco	
	Gulf of Mexico Program Regi	
	National Estuary Program Reg	
	EPA Regio	
	Dallas, T	X
	"Estuary Programs in Texas: Vehicles of A	ction for Society and Environment"
	Carla G. Guthr	ie, Ph.D.
	Director	
	Surface Water I	
	Texas Water Develo	pment Board
	"I managina Pasannasa mith Nat	ional Fatram Programs"
	"Leveraging Resources with Nat Brian Ko	
	Regional Watershed	
	Texas State Soil and Water	
	Wharton,	
	Honorable David	A. Garza
	County Commission	er District #3
	Cameron Co	ounty
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	David Men	
	Bickerstaff, Heath, Delg	
	Austin T	X
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3:00-3:15	Austin, T FOYER	
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Group	FOYER	t .
Group Session III	Networking Coffee Break, I ROYAL Stormwater III – Arroyo Colorado Watershed I	Exhibits and Posters MAJESTIC Protection Plan Update Panel Discussion
Group	Networking Coffee Break, ROYAL Stormwater III – Arroyo Colorado Watershed I Chair: Emily Rogers, Attorney, Bickerstaff He	Exhibits and Posters MAJESTIC Protection Plan Update Panel Discussion eath Delgado Acosta LLP, Austin, TX
Group Session III	Networking Coffee Break, I ROYAL Stormwater III – Arroyo Colorado Watershed I	Exhibits and Posters MAJESTIC Protection Plan Update Panel Discussion eath Delgado Acosta LLP, Austin, TX
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Group Session III	ROYAL Stormwater III – Arroyo Colorado Watershed I Chair: Emily Rogers, Attorney, Bickerstaff He Vice Chair: David Mendez, Bickerstaff, Heat ARROYO COLORAD PROTECTION PL PANEL DISC PRESENTI "EPA's Role in Watershed Prote Under the Nonpoint So Mike Bin EPA NPS Pre EPA Region 6, E & Henry Bre Environmental Protec Water Quality Protect	Exhibits and Posters MAJESTIC Protection Plan Update Panel Discussion eath Delgado Acosta LLP, Austin, TX h, Delgado, Acosta LLP, Austin, TX O WATERSHED AN UPDATE USSION ERS: exciton Plan Development urce Program" ra ogram ballas, TX wer tion Specialist etion Division

"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., Arrovo Colorado Watershed Coordinator Arroyo Colorado Watershed Partnership, Weslaco, TX -----Facilitated by: **Emily Rogers, Attorney** Bickerstaff Heath Delgado Acosta LLP Austin, TX Social PALM GRAND BALLROOM 5:30-6:00 Networking/Fellowship Dinner "Engineering Education, Technology Development 6:00-8:00 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 Reves, 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

MAJESTIC

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

ROYAL

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 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

"Cyberinfrastructure for Regional Water Monitoring and Modeling"

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

"The Rivers & Estuaries Observation Network"

Christopher Fuller, Ph.D.

Research, Applied Technology and Education Services
Potsdam, NY

"Conjunctive Surface Water-Groundwater Management, and Potential Flood Control with GMS Modeling"

Chu-Lin Cheng, Ph.D.

Civil Engineering Department

Univ. of Texas - Rio Grande Valley Edinburg, TX

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	Tushar Si Environmenta Texas A&M Univ Kingsv "Lower Laguna Madre Coas Jungseok Ho Civil Engineeri University of Texas Rio Gi "Disaster Mitigation William Do Sociology	Flood Events in South Texas" nha, Ph.D. al Engineering versity-Kingsville ille, TX stal Flow Circulation Model" b, Ph.D., P.E. ing Department rande Valley, Edinburg TX and Warning System" onner, Ph.D. Department nde Valley Edinburg, TX
	Emily Roge Bickerstaff Heath D	ated by: rs, Attorney Delgado Acosta LLP n, TX
10:00-10:15	FOYER	
10:00-10:15	Networking Coffee Break, Exhibits and Posters	
Group Session V	ROYAL	MAJESTIC
10:15-12:00	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	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
	"Trash Free Waters" Douglas Jacobson Gulf of Mexico Program Regional Program Manager National Estuary Program Regional Program Manager EPA Region 6 Dallas, TX "Over 30 Years of Freshwater Inflow Research in the Lower Laguna Madre Estuary" Caimee Schoenbaechler Environmental Flows Specialist	"A City's Liability for Flooding" Emily Rogers Attorney Bickerstaff Heath Delgado Acosta LLP Austin, TX "Multi Sector General Permit" Rebecca Villalba Team Leader Stormwater & Pretreatment Team Water Quality Division Texas Commission on Environmental Quality

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

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2.15.2.20]	FOYER	
3:15-3:30	Networking Coffee 1	Break, Exhibits and Posters	
	NA	AUTILUS	
3:15-3:30	POSTER WINNER ANNOUNCEMENTS		
Group Session VII 3:30-5:00	ROYAL	MAJESTIC	
	Chair: David Mendez, Bick	Funding Panel Discussion erstaff, Heath, Delgado, Acosta LLP ey, Bickerstaff Heath Delgado Acosta LLP	
	FUNDING OPPORTUNITIES USEPA PROGRAMS & TEXAS WATER DEVELOPMENT BOARD STORMWATER FUNDING PROGRAMS		
	PANEL DISCUSSION PRESENTERS:		
	Hei Environmenta EPA	es in the Lower Rio Grande Valley " nry Brewer I Protection Specialist A, Region 6 hallas, TX	
	M: Clean Water SR Texas Water	Savings Incentives" ark Evans EF Program Coordinator Development Board ustin, TX &	
	Proj Texas Water	Bodnar, CFM ect Manager Development Board ustin, TX	
	Asl NPS P Texas State Soil and Te Tin NPS P Texas Commission	Source Grant Program" nley Wendt roject Manager d Water Conservation Board emple, TX & n Cawthon roject Manager on Environmental Quality	
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	KEY LARGO ROOM- FIRST FLOOR
Alumni Social 5:30 – 8:00pm	6th Annual Javelina Engineering Alumni Social
	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