**Agenda**

**Coastal Science and Engineering Collaborative (CSEC) Workshop**

**19-21 APR 2017**

**Engineering Research and Development Center**

**Environmental Lab Conference Room**

**Vicksburg, MS**

**Dialin: 1-877-336-1839; Access Code: 2885788; Security Code: 2017; (USA Caller Paid/International Toll: 636-651-0008);** [**https://www.teleconference.att.com/servlet/AWMlogin**](https://www.teleconference.att.com/servlet/AWMlogin)

**Purpose:** Explore and establish common interests for partnering on coastal science and engineering academics, research and development, and practice, for timely infusion of innovative technical products to support lifecycle coastal infrastructure systems management decisions in practice.

**Objectives:**

* Strengthen and broaden collaboration among organizations in CSEC
* Identify crossover working relationships in coastal science and engineering
* Develop a partnering value proposition for achieving mutually held objectives
* Identify action items for joint organization follow up with future event planning
* Report on ongoing activities for identification of additional opportunities

**Day 1 – Focus on NNBF and EWN Collaboration (19 APR 2017):** Separate Agenda Provided

**Dinner social at 10 South (1830-2000 hrs).**

**Day 2 – Focus on Technical CSEC Program Collaboration and Status (20 APR 2017):**

1. Introductions (0830-0845 hrs), discuss optional tours if time allows at the end of the day. Edmond Russo/SWG.
2. Interaction on and solidification of meeting purpose and objectives (0845-0900 hrs). Edmond Russo/SWG.
3. Review of minutes and action items from prior meeting (0900-0930 hrs). Edmond Russo/SWG.
4. Discussion of SONs submitted and FRM RARG (0930-1000 hrs). Rob Thomas/SWG

**Break (1000-1015 hrs).**

1. Update of near-term academic collaboration initiatives (1015-1030 hrs).
	1. TAMU OCEN virtual learning courses via the ERDC Institute. Jane Smith/ERDC (Lead), Bert Sweetman/TAMU, Todd Bridges/ERDC, and Tom White/SWG.
	2. USACE briefs to new TAMU OCEN students. Coraggio Maglio/SWG and Bert Sweetman/TAMU.
	3. Interest in providing TAMU OCEN capstone course proposals on USACE study and project needs. Coraggio Maglio/SWG and Juan Horrilio/TAMU.
	4. Other opportunities to plan for. Bert Sweetman/TAMU.
2. Engineering with Nature (EWN) course curriculum development (1030 – 1200). Edmond Russo/SWG and all

**Lunch (1200-1300 hrs).**

1. Status and next steps of near-, mid-, and long-term project collaboration initiatives – 10-15 minutes each (1300-1530 hrs).
2. Galveston Bay benthic substrate (historic oyster shell mining pit capping) and ecosystem restoration. Eddie Irigoyen/SWG, Tom White/SWG.
3. Fate and Transport of Nearshore Berms at South Padre Island. Patrick Friend/Coastal Sediment Dynamics for Brandon Hill/City of South Padre Island (SPI).
4. Developing Natural and Nature Based Features (NNBF) performance evaluation and interpretation practices on the Texas coast. LiDAR indices extraction and resiliency ranking measures. Kelly Burks-Copes/SWG.
5. Establishment of Novel Texas Gulf Coast Beach Erosion Management Best Practices. Coraggio Maglio/SWG, Rueben Trevino/Galveston Park Board of Trustees (GPBT).
6. Texas Gulf Coast Engineered Dune Performance Evaluation. Jens Figlus/TAMU.
7. Galveston sand management plan update. Coraggio Maglio/SWG.
8. Galveston Bay: Environmental Restoration Opportunities. Tom White/SWG.
9. Gulf of Mexico (GoM) Coastal Bio-Physical Processes Observation System. Bert Sweetman/TAMU.
10. Dredging Industry Partnership to Advance Innovative Dredging Technologies. Todd Bridges/ERDC.
11. S&T Program for Life Cycle Analysis of Coastal Barriers, Rob Thomas/SWG and Ray Newby/GLO.
12. GIWW RSLR and CSRM Investigations: How do engineered features support long term sustainability and resilience, Rob Thomas/SWG and Edmond Russo/SWG.

**Break (1500-1515 hrs).**

1. NOAA-NOS collaboration on Sustainable and Resilient Regionally Integrated Infrastructure (SRRII) (1530 – 1545). Todd Bridges/ERDC, Jeff King/ERDC (not attending) and Edmond Russo/SWG.
2. Optional Tours at the end of the day. Mary Bryant/ERDC

**Day 3 – Focus on CSEC Program Implementationi Plan (21 APR 2016):**

1. Discussion of CSEC Program Management Plan (0800-0900 hrs). Edmond Russo/SWG.
2. CRADA with ERDC and TAMU Foundation (0900 – 0930). Bob Randall/TAMU and Richard Styles/ERDC.
3. Strategy Development for TAMU OCEN Board of Industry Advisors Meeting regarding CSEC value proposition (0930 - 1030). Edmond Russo/SWG and Sharath Girimaji /TAMU.

**Break (1030-1045 hrs).**

1. Recap of identified CSEC partnering action items for follow up (1045-1115). Rob Thomas/SWG and Edmond Russo/SWG.
2. Establishment of next meeting’s purpose, objectives, date, and location (1115-1200). All.

**Adjourn (1200 hrs).**

**Workshop Participants (living listing, C = confirmed to participate):**

C – ERDC POC for Meeting: Mary Bryant, Research Hydraulic Engineer, ERDC CHL, Vicksburg, Mississippi, Email: Mary.Bryant@usace.army.mil.

C Mr. W. Jeff Lillycrop, Technical Director, Civil Works R&D, ERDC CHL, Vicksburg, Mississippi, Email: william.j.lillycrop@usace.army.mil.

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C Jane M. Smith, PhD, Senior Research Scientist for Hydrodynamic Phenomena, ERDC CHL, Vicksburg, Mississippi, Email: jane.m.smith@usace.army.mil.

C - Jeffrey P. Waters, PhD, Chief, Coastal Observations & Analysis Branch, ERDC CHL FRF, Duck, North Carolina, Email: Jeffrey.P.Waters@usace.army.mil.

C Richard Styles, Navigation Branch, Navigation Division, ERDC CHL, Vicksburg, Mississippi, Email: richard.styles@usace.army.mil.

C - Michael C. Sterling, PhD, PE, Chief Water Management and Infrastructure Safety, USACE, Southwestern Division, Email: Michael.c.sterling@usace.army.mil.

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C Carla Kartman, Project Manager, Texas General Land Office, Email: Carla.Kartman@GLO.TEXAS.GOV.

N Sharath Girimaji, PhD, PE, General Dynamics Professor of Aerospace Engineering, Joint Faculty - Professor, Mechanical Engineering, Department Head, Department of Ocean Engineering, Chief Scientist, ASTRO Center, Faculty Advisor, High Altitude Balloon Club, TAMU OCEN, Email: girimaji@tamu.edu.

C Robert Randall, PhD, PE, W. H. Bauer Professor in Dredging Engineering, Director, Reta and Bill Haynes '46 Coastal Engineering Laboratory, Director, Center for Dredging Studies, TAMU OCEN, Email: r-randall@tamu.edu.

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N Brandon Hill, Program and Project Manager, City of South Padre Island Shoreline Management, Email: BHill@MySPI.org

C Patrick Friend, Business Development Director, Partrac, pfriend@partrac.com (presenting for Brandon), for City of SPI

C (NNBF for sure) Anna Armitage, PhD, Assistant Professor, TAMU, Email: armitaga@tamug.edu.

C (NNBF for sure) Rusty Feagin, PhD, Assistant Professor, TAMU, Email: feaginr@tamu.edu.

C Thomas P. Huff, Ph.D. Candidate, Department of Ecosystem Science and Management, Texas A&M University, College Station, TX. Email: thuff621@gmail.com

C (NNBF for sure) Jacob Sigren, PhD, Assistant Professor, TAMU, Email:.

C Stefan Aarnikhof (TU Delft) S.G.J.Aarninkhof@tudelft.nl

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C Ashton Burgin, Operations Manager, Operations Division, USACE SWG, Galveston, Texas Email: Ashton.Burgin@usace.army.mil.

C Dave Brown. Chief Hydrologist, Gulf Coast Program Office Chief, Texas Water Science Center, U.S. Geological Survey, Email: dsbrown@usgs.gov.

Telecon Mike Lee. U.S. Geological Survey, Email: mtlee@usgs.gov.

Notes:

1. Computer and projector will be provided.
2. Bring presentations on hard drives
3. Presentations are due at the start of the break before your session
4. Mary wont need help setting up before Wed
5. Luch info being emailed.
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