



## Texas COPRI Chapter Fall Conference: October 3, 2024

Anderson-Clarke Center, Rice University, Houston, Texas

# Morning Program

# Conference Agenda

|               |                                                      |
|---------------|------------------------------------------------------|
| 08:00 – 08:30 | Registration / Networking: Commons                   |
| 08:30 – 08:45 | Opening Remarks: Hudspeth Auditorium                 |
| 08:45 – 10:00 | Program Session 1: Hall 110 & Session 2: Hall 113    |
| 10:00 – 10:30 | Networking Break: Commons                            |
| 10:30 – 11:15 | Port Authority Panel Discussion: Hudspeth Auditorium |
| 11:15 – 12:00 | Keynote Speaker: Hudspeth Auditorium                 |
| 12:00 – 1:00  | Lunch Break, Chapter Business Discussion: Commons    |

### Program Session 1 (75 Minutes): Coastal, Moderator: Sohaib Alahmed, PhD., P.E.

- Revetment Damage Progression Analysis Considering Reduction in Sea Ice Cover due to Climate Change, Kivalina, Alaska - Arturo Jimenez-Martinez, P.E., Stantec
- Designing Hybrid Coral Reefs in the Florida Keys – DARPA Reefense - David Moulton, E.I.T., AECOM
- Offshore Wind Energy Assessment in the Gulf of Mexico based on Trivariate Distribution of Wind Speed, Significant Wave Height and Spectral Peak Period - Mahmudul Hasan Maheen, Texas A&M University

### Program Session 2 (75 Minutes): Ports, Moderator: Stephanie Rogers, P.E.

- Retrofit of a Two-Berth Cruise Terminal During the Height of Covid-19 Pandemic - Edyson Rojas, P.E., WSP USA
- Development of a Cathodic Protection Repair Design at Port of Corpus Christi - Jeremiah Fasl, Ph.D, P.E., WJE
- Design of a Multi-Purpose Pile-Supported Wharf in Veracruz, Mexico - Carlos E. Ospina, Ph.D., P.E., SGH

### Port Authority Panel Discussion (45 Minutes): Moderator: Joseph Scarborough, P.E.

- Craig Kasper, P.E., Projects Portfolio Manager, Port of Houston
- Victor Martinez, Jr., Port Director, Port of Palacios
- Brandon M. Bergeron, P.E., PPM, Director of Engineering, Port of Beaumont

### Keynote Speaker (45 Minutes): Moderator: Cris Weber, P.E.

- Rob Thomas, P.E., Chief, Engineering & Construction, US Army Corps of Engineers

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# Afternoon Program

1:00 – 1:45

Women in Maritime Panel Discussion: Hudspeth Auditorium

1:45 – 2:15

Networking Break: Commons

2:15 – 3:30

Program Session 3: Hall 110 & Session 4: Hall 113

3:30 – 4:00

Networking Break: Commons

4:00 – 4:45

Beneficial Use Panel Discussion: Hudspeth Auditorium

4:45 – 5:00

Closing Remarks: Hudspeth Auditorium

### Women in Maritime Panel Discussion (45 Minutes): Moderator: Christine Schlenker, Vice President, Greater Houston Port Bureau

- Dana Blume, Executive Director, Houston International Seafarers Center
- Denise Schaefer, Manager Documentation and Regulatory Compliance, Odfjell USA (Houston), Inc
- CDR. Kelley Brown, Inspections Division Chief, US Coast Guard Sector Houston Galveston

### Program Session 3 (75 Minutes): Coastal, Moderator: Christophe Baron-Hyppolite, P.E.

- Investigation of CFSR wind fields in the Gulf of Mexico - Md Abrar Faiyaz Taseen, Texas A&M University
- Simulation of Wave Conditions during Hurricane Beryl-2024 - Tasnim Islam, Texas A&M University
- LSTM Autoencoder-Based Anomaly Detection in Maritime Navigation: A Case Study on the Gulf Intracoastal Waterway – Maryam Hamidi, Lamar University

### Program Session 4 (75 Minutes): Ports, Moderator: Ben Cain, P.E.

- Cathodic Protection – Keys to Success - Larry Ragsdale, P.E., SteLar Consulting Services, LLC
- Vessel collision risk analysis and impact loads to bridge piers and other structures in waterways - Afshin Ahmadi, Ph.D., P.E, Baird & Associates
- From 100K to 2M TEUs in 30 Years – A Successful Case of Ports and Marine Engineers Supporting Container Terminal Operators - Miguel Forero, P.E, WSP US

### Beneficial Use Panel Discussion (45 Minutes): Moderator: Aaron Horine, P.E.

- Todd Merendino, Manager of Conservation Programs, Ducks Unlimited
- Rhonda Gregg-Hirsch, Operations Manager Beneficial Use, Operations Division-Navigation Branch, US Army Corps of Engineers-Galveston District
- Ray Newby, P.G., Waterways Program Coordinator - Maritime Division, Texas Department of Transportation
- Lori Brownell, P.E., BC. NE, F. ASCE, Chief of Channel Infrastructure Officer, Port of Houston

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