CENTER FOR
ADVANCES IN PORT MANAGEMENT
LAMAR UNIVERSITY

"WORKFORCE DEVELOPMENT—CHALLENGES AND OPPORTUNITIES"

PRESENTED TO

AAPA COMMISSIONERS SEMINAR

JUNE 20, 2018

ERIK STROMBERG
EXECUTIVE DIRECTOR

CENTER FOR ADVANCES IN PORT MANAGEMENT

Mission: To better prepare the port and marine terminal operating industry for the challenges and opportunities that lie ahead through advanced education and industry relevant research.

Description: Collaborative venture between the colleges of Engineering and Business, fundamentally linked with the port and marine terminal operating industry to meet industry's current and future needs, integrating theory and practice.

DEGREES, CONCENTRATIONS AND CERTIFICATES

- Masters of Science in Port and Marine Terminal Management
- MBA and MEM with Concentration in Port and Marine Terminal Management
- Specialized Certifications:
  - Ports, Trade and Global Logistics; Port Management; Port Development and Operations.
  - In development: Cyber Security, Oil and Gas Supply Chain Management, Risk Analysis, and Strategic Asset Management

CAPM CURRICULUM

- Introduction to Port and Marine Terminal Management
- Strategic and Master Facility Planning
- Economics of Trade and Ports
- Freight Transportation Systems
- Decision Making and Critical Thinking Skills
- Legal Framework for Ports and Marine Terminals
- Marine Terminal Operations
- Capital Planning and Project Development
- Safety, Security and Resilience
- Leadership and Team Building
- Communication and Negotiating Skills
- Port Property and Asset Management

THANK YOU! QUESTIONS?

- Erik Stromberg, Executive Director, CAPM

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Additional slides, if needed

PORT AND MARINE TERMINAL MASTERS DEGREE PROGRAM

PROGRAM: Fully online, started Fall 1, 2017

APPLICATION REQUIREMENTS

1) ApplyTexas
2) Bachelor's degree from an accredited university
3) Official transcripts from all colleges and universities
4) Graduate Record Examination (GRE)
    a. Waived if the student has more than one year relevant industry experience.
    b. Waived if undergraduate GPA is 3.0 or higher.

TUITION: $12888/year

CAPM RESEARCH—2017

- Optimizing chemical tanker traffic in the Houston Ship Channel (HSC)
- Minimization of impact on vessel traffic of HSC closures due to Beltway 8 Bridge construction project
- Minimizing wake wash shoreline impacts in the Sabine-Neches Waterway
- Vessel traffic safety optimization in the Sabine-Neches Waterway
- Microbial detection of invasive species in ballast water
- Nanotechnology applications for vessel hull surface coating
- Vessel fuel consumption optimization
- Strategic asset management for critical port infrastructure/facilities
- Resilient cyber/physical security energy port infrastructure
- Application of unmanned aerial system in port operations
- Cost effective maintenance strategies for railroad operations