

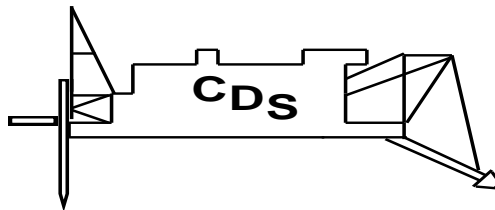
49th
DREDGING
ENGINEERING
SHORT COURSE

January 6 - 10, 2020



Sponsored by
CENTER FOR DREDGING STUDIES
DEPARTMENT OF OCEAN ENGINEERING
TEXAS A&M ENGINEERING EXPERIMENT STATION
COLLEGE OF ENGINEERING

TEXAS A&M UNIVERSITY



49th DREDGING ENGINEERING SHORT COURSE

Brief Description

The dredging engineering short course is taught on the Texas A&M University campus in College Station, Texas and includes a mixture of lectures, laboratories, and a panel. The course is administered by the Center for Dredging Studies, Department of Ocean Engineering. Two textbooks and course notes on all lecture material are provided. A certificate and continuing education units (~3.0 CEUs) are earned.

Monday, January 6, 2020 (8:00 a.m. - 5:00 p.m.)

*HISTORY OF DREDGING; DREDGING EQUIPMENT
FLUID MECHANICS; CENTRIFUGAL PUMPS; PUMP CAVITATION
PUMP PERFORMANCE CHARACTERISTICS AND DREDGE INSTRUMENTATION
SEDIMENT TRANSPORT IN PIPES
GEOTECHNICAL MECHANICS; PHYSICAL AND ENGINEERING PROPERTIES; DIKE DESIGN
MECHANICAL DREDGES; SEDIMENT RESUSPENSION
TOPICS IN HYDROGRAPHIC SURVEYING*

Aubeny, Diurba, Figlus, Hayes, Mohan, Perlin, Randall

TEXAS BBQ DINNER (Monday Evening, 6:45 - 8:30 p.m.)

Tuesday, January 7, 2020 (8:00 a.m. - 5:30 p.m.)

*BEACH NOURISHMENT; DUNE MANAGEMENT
BASIC DREDGE LAWS
PRACTICAL DREDGE HYDRAULICS
SMALL HYDRAULIC DREDGES
CUTTERS AND CUTTER SUCTION DREDGE OPERATION
HOPPER DREDGES AND DREDGE CONTROL SYSTEMS
ENVIRONMENTAL CLAMSHELL DREDGING
DREDGING GROUP PROJECT EXERCISE; DREDGING & GEOTECHNICAL LAB*

Aubeny, Bergeron, Edge, Figlus, Henriksen, Mohan, Randall, Wetta

Wednesday, January 8, 2020 (8:00 a.m. - 5:30 p.m.)

*FATE OF DREDGED MATERIAL PLACED IN OPEN WATER
NUMERICAL MODELS FOR PREDICTING THE FATE OF DREDGED MATERIAL
DREDGING SAFETY
TECHNICAL INPUTS TO DREDGING COST ESTIMATES
DREDGE MONITORING
ECOSYSTEM RESTORATION USING DREDGED MATERIAL
GEOTEXTILE CONTAINER SYSTEMS
DREDGING GROUP PROJECT EXERCISE; DREDGING & GEOTECHNICAL LAB*

Allen, Aubeny, Davis, Gailani, Mohan, Ramsdell, Randall, Trierweller

Thursday, January 9, 2020 (8:00 a.m. - 5:30 p.m.)

*SUBAQUEOUS CAPPING
CONFINED DISPOSAL OF DREDGED MATERIAL
MANAGING CONTAMINATED SEDIMENTS – U.S. AND CANADIAN PERSPECTIVES
CONTRACT DOCUMENTS AND CONSTRUCTION MANAGEMENT
DREDGED MATERIAL TESTING MANUALS AND EVALUATION OF RESULTS
EPA AND THE ENVIRONMENTAL ASPECTS OF DREDGED MATERIAL DISPOSAL
ENVIRONMENTAL QUESTION AND ANSWER PANEL
DREDGING GROUP PROJECT EXERCISE; DREDGING & GEOTECHNICAL LAB*

Aubeny, Mohan, Palermo, Randall, Santiago, Suedel, Vogt

BANQUET & CERTIFICATE PRESENTATION (Thursday Evening, 6:45 - 8:30 p.m.)

Friday, January 10, 2020 (8:00 a.m. - 12:00 p.m.)

*ENGINEERING WITH NATURE
BENEFICIAL USES OF DREDGED MATERIAL
CHEMICAL TREATMENT OF DREDGED SOLIDS
DEWATERING AND SEDIMENT SEPARATION
DREDGE PERMITTING AND PROJECT MANAGEMENT
ESTIMATING DREDGING COSTS*

Jamieson, LeCroy, Hudson, Randall, Suedel, Tichenor

INSTRUCTIONAL STAFF

VISITING LECTURERS

- ❖ BRENDA ALLEN, Civil Engineer/Technical Lead, Data Acquisition & Analysis, U.S. Army Corps of Engineers, Mobile District, Mobile, AL (B.S., College of William & Mary; M.S., University of Alabama)
- ❖ RAY BERGERON, President, Cable Arm Inc., Trenton, MI (B.S. and M.S., Western Michigan University)
- ❖ ERIN DIURBA, Chief, Hydrographic Surveys Section, U.S. Army Corps of Engineers, Galveston, TX
- ❖ JOSEPH GAILANI, Research Hydraulic Engineer, Coastal and Hydraulics Laboratory, U.S. Army Engineering Research and Development Center, Vicksburg, MS (B.S. and M.S., Northwestern University; Ph.D., University of California at Santa Barbara)
- ❖ TOM JAMIESON, Project Manager, Tri-Flo International, Inc., Conroe, TX (B.A., University of Houston)
- ❖ DONALD HAYES, Research Hydraulic Engineer, Coastal and Hydraulics Laboratory, U.S. Army Engineering Research and Development Center, Vicksburg, MS (B.S. and M.S., Mississippi State University; Ph.D., Colorado State University; Registered Professional Engineer)
- ❖ JOHN HENRIKSEN, Production Manager, Manson Construction Company, New York, NY (B.S./B.A., University of Delaware; M.S., Dartmouth College; Ph.D., Texas A&M University; Registered Professional Engineer)
- ❖ JAYSON HUDSON, Regulatory Project Manager, U.S. Army Corps of Engineers, Galveston, TX (B.S., Texas A&M University; M.S., Texas State University)
- ❖ MICHAEL PALERMO, Michael Palermo Consulting, Raleigh, NC (B.S. and M.S., Mississippi State University; Ph.D., Vanderbilt University; Registered Professional Engineer)
- ❖ ROBERT RAMSDELL, Director, Production Engineering and R&D, Great Lakes Dredge and Dock, Oak Brook, IL (B.A., University of California, Berkeley)
- ❖ ROGER SANTIAGO, Head, Sediment Remediation Unit, Remediation Technologies Program, Environment Canada, Downsview, Ontario, Canada (B.E.S., University of Waterloo)
- ❖ BURTON SUEDEL, Research Biologist, U.S. Army Engineering Research and Development Center, Vicksburg, MS (B.S. North Texas State University, M.S. University of North Texas, Ph.D. University of Mississippi)
- ❖ GEORGE TICHENOR, Applications Scientist, SNF Corporation, Riceboro, GA (B.A., Northwestern University; Ph.D., Purdue University)
- ❖ DANA TRIERWEILER, President/CEO, Infrastructure Alternatives Incorporated, Rockford, MI (B.S., Wayne State University; MBA, Aquinas College; Registered Professional Engineer)
- ❖ CRAIG VOGT, Consultant, Woodbridge, VA (B.S. and M.S., Oregon State University; Registered Professional Engineer)
- ❖ WILLIAM WETTA II, President and CEO, Dredging Supply Company, Reserve, Louisiana (B.S., Louisiana State University; Registered Professional Engineer)

TEXAS A&M UNIVERSITY FACULTY

- ❖ CHARLES AUBENY, Professor, Department of Civil Engineering (B.S., University of Arizona; M.S., University of Colorado; Ph.D., Massachusetts Institute of Technology; Registered Professional Engineer)
- ❖ BILLY EDGE, Professor Emeritus, Department of Ocean Engineering (B.S. and M.S., Virginia Polytechnic Institute; Ph.D., Georgia Institute of Technology; Registered Professional Engineer)
- ❖ JENS FIGLUS, Assistant Professor, Department of Ocean Engineering (Dipl. Ing., University of Karlsruhe, M.C.E., and Ph.D., University of Delaware)
- ❖ RAM MOHAN, Adjunct Professor, Short Course Director, Department of Ocean Engineering; Principal, ANCHOR QEA, LLC (B.S., Cochin University of Science & Technology; M.S., University of Rhode Island; Ph.D., Texas A&M University; Registered Professional Engineer)
- ❖ MARC PERLIN, Bauer Professor of Dredging & Associate Department Head, Department of Ocean Engineering (B.S. Drexel University, M.C.E., University of Delaware, Ph.D. University of Florida; Registered Professional Engineer)
- ❖ ROBERT RANDALL, Professor Emeritus, Department of Ocean Engineering (B.S., Ohio State; M.S. and Ph.D., University of Rhode Island; Registered Professional Engineer)

HOTEL OPTIONS:

- ❖ *CAVALRY COURT, 200 Century Court, College Station, TX, 77840; 979-229-9090
- ❖ *THE GEORGE, 180 Century Court, College Station, TX 77840; 979-485-5638
- ❖ ALOFT, 1150 University Drive East, College Station, TX 77840; 7-979-704-6400
- ❖ FAIRFIELD INN & SUITES, 4613 Texas Ave. S., Bryan, TX 77802; 979-268-1552
- ❖ HAMPTON INN, 302 Texas Ave. S., College Station, TX 77840; 979-846-0184
- ❖ HAWTHORN SUITES, 1010 University Dr. E., College Station, TX 77840; 979-695-9500
- ❖ HILTON HOTEL, 801 University Dr. E., College Station, TX 77840; 979-693-7500
- ❖ HOLIDAY INN EXPRESS, 1203 University Dr. E., College Station, TX 77840; 979-846-8700
- ❖ HOME2 SUITES, 300 Texas Avenue, College Station, TX 77840; 979-703-8288
- ❖ HYATT PLACE, 1100 University Dr. E., College Station, TX 77840, 979-846-9800
- ❖ RESIDENCE INN BY MARRIOTT, 720 University Dr. E, College Station, TX, 77840, 979-268-2200

**These hotels are right across the short course lecture hall. Many other choices are available in the internet. Check directly with the hotel for TAMU DSC rates, if offered.*

AIRLINE OPTIONS:

- ❖ AMERICAN EAGLE - Connection from Dallas (DFW)
- ❖ UNITED - Connection from Houston (IAH)
- ❖ Airport in College Station: Easterwood Airport (CLL)

Some attendees also fly either to Houston/Dallas and drive from there to College Station.

ENROLLMENT PROCEDURE
49th DREDGING ENGINEERING SHORT COURSE
JANUARY 6 - 10, 2020

Course Fee: \$1700 (includes textbook, lecture notes, banquet and local transportation).

Enrollment: Advance enrollment by December 1, 2019 is required and may be made by individuals or companies. Please register online and pay course fee online by credit card or prior approval for invoice using: <https://engineering.tamu.edu/ocean/events/index.html>. NO CANCELLATIONS will be granted AFTER DECEMBER 1, 2019.

Questions & Information:

Dr. Ram Mohan, Course Director

Tel: 215-756-5030; Email: rmohan@tamu.edu

Caleb Mullins, Department of Ocean Engineering Events Coordinator

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Coby Whitehead, Business Office

Tel: 979-845-4586; Fax: 979-862-7972; Email: coby.whitehead@tamu.edu

Nicole Solecki, TEES registration

Tel: 979-845-3405; Email: Nicole.solecki@tamu.edu

Web Site: <https://engineering.tamu.edu/ocean/events/index.html>