

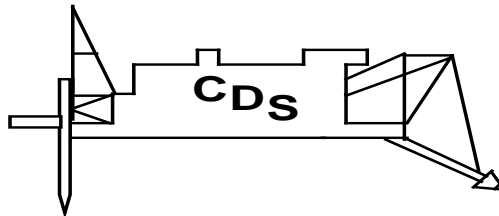
48th
DREDGING
ENGINEERING
SHORT COURSE

January 7 - 11, 2019



Sponsored by
CENTER FOR DREDGING STUDIES
DEPARTMENT OF OCEAN ENGINEERING
COLLEGE OF ENGINEERING

TEXAS A&M UNIVERSITY



48th DREDGING ENGINEERING SHORT COURSE

COURSE 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 7, 2019 (8:00 a.m. - 5:15 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
ENVIRONMENTAL CLAMSHELL DREDGING
TEXAS BBQ DINNER (Monday Evening, 6:30 - 8:30 p.m.)*

Aubeny, Bergeron, Figlus, Hayes, Mohan, Perlin, Randall

TUESDAY, JANUARY 8, 2019 (8:00 a.m. - 5:15 p.m.)

*BEACH NOURISHMENT & DUNES
BASIC DREDGE LAWS & DREDGE HYDRAULICS
SMALL HYDRAULIC DREDGES
CUTTERS AND CUTTER SUCTION DREDGE OPERATION
HOPPER DREDGES AND DREDGE CONTROL SYSTEMS
DREDGING BEST MANAGEMENT PRACTICES AND CLAIMS AVOIDANCE
DREDGING GROUP PROJECT EXERCISE; GEOTECHNICAL LAB*

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

WEDNESDAY, JANUARY 9, 2019 (8:00 a.m. - 5:15 p.m.)

*FATE OF DREDGED MATERIAL PLACED IN OPEN WATER
NUMERICAL MODELS FOR PREDICTING THE FATE OF DREDGED MATERIAL
DREDGING SAFETY CONSIDERATIONS
DATA NEEDS & TECHNICAL INPUTS FOR DREDGING
DREDGE MONITORING
ECOSYSTEM RESTORATION USING DREDGED MATERIAL
GEOTEXTILE CONTAINER SYSTEMS
ADVANCES IN HYDROGRAPHIC SURVEYING
DREDGING GROUP PROJECT EXERCISE; GEOTECHNICAL LAB*

Allen, Aubeny, Davis, Edge, Gailani, Mohan, Ramsdell, Randall, Ransome, Trierweiler

THURSDAY, JANUARY 10, 2019 (8:00 a.m. - 5:15 p.m.)

*SUBAQUEOUS CAPPING & CONFINED DISPOSAL OF DREDGED MATERIAL
CONTAMINATED SEDIMENT MANAGEMENT CONSIDERATIONS
CANADIAN EXPERIENCES IN MANAGING CONTAMINATED SEDIMENTS
CONTRACT DOCUMENTS AND CONSTRUCTION MANAGEMENT CONSIDERATIONS
DREDGED MATERIAL TESTING MANUALS AND EVALUATION OF TESTING RESULTS
EPA AND THE ENVIRONMENTAL ASPECTS OF DREDGED MATERIAL DISPOSAL
ENVIRONMENTAL TOPICS - QUESTION AND ANSWER PANEL
DREDGING GROUP PROJECT EXERCISE; GEOTECHNICAL LAB
BANQUET (Thursday Evening, 6:30 - 8:30 p.m.)*

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

FRIDAY, JANUARY 11, 2019 (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
CERTIFICATE PRESENTATION*

Hudson, Jamieson, Mohan, 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)
- ❖ 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)
- ❖ CHRIS RANSOME, President, CRA, Inc., Houston, TX (B.Sc., University of Southampton, UK; M.Sc., University of Durham, UK)
- ❖ 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 APPLICATION
48th DREDGING ENGINEERING SHORT COURSE
JANUARY 7 - 11, 2019

(Please Print Legibly or Type)

Name: Last First M.I.

Position / Title

Employer / Company Name

Street Address or Mailing Address

City State Country Zip Code

Telephone Cell Email Address

Course Fee: \$1500 (includes textbook, lecture notes, banquet and local transportation).

Enrollment: Due to limited space (75 total), advance enrollment by December 5, 2018 is required and may be made by individuals or companies.

Please pay course fee by credit card (<https://engineering.tamu.edu/ocean/research/center-for-dredging-studies>) or mail payment of \$1500 by check or money order payable to "Texas A&M University" in US dollars and drawn on a US bank. Bank wire transfer or a US government training form is also acceptable forms of payment.

No cancellations will be granted after December 5, 2018.

Application Deadline: December 5, 2018

Payment Made Payable to: TEXAS A&M UNIVERSITY

Mail Application to: Robyn Wright
Center for Dredging Studies
Department of Ocean Engineering
Texas A&M University
College Station, TX 77843-3136

Questions & Information:

Dr. Ram Mohan, Course Director

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

Web Site: <https://engineering.tamu.edu/ocean/research/center-for-dredging-studies>

Dr. Robert Randall, Director Emeritus

Tel: 979-845-4568; Email: r-randall@tamu.edu

Robyn Wright, Business Assistant

Tel: 979-845-4586; Fax: 979-862-8162; Email: rwright@tamu.edu