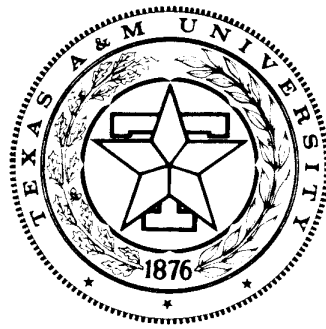
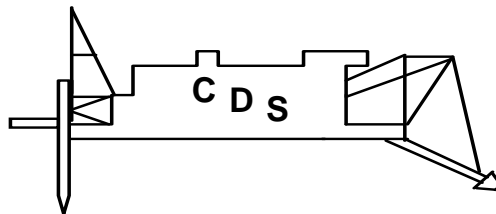


**39<sup>th</sup>**  
***DREDGING***  
***ENGINEERING***  
***SHORT COURSE***

January 11 - 15, 2010



Sponsored by  
**CENTER FOR DREDGING STUDIES**  
OCEAN ENGINEERING PROGRAM  
ZACHRY DEPARTMENT OF CIVIL ENGINEERING  
DWIGHT LOOK COLLEGE OF ENGINEERING  
TEXAS A&M UNIVERSITY



# 39<sup>th</sup> DREDGING ENGINEERING SHORT COURSE

## **Preliminary Course Schedule**

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

### **Monday, January 11, 2010 (8:00 a.m. - 5:00 p.m.)**

*FLUID MECHANICS; CENTRIFUGAL PUMPS; PUMP AFFINITY LAWS  
PUMP CAVITATION  
PUMP PERFORMANCE CHARACTERISTICS AND SYSTEM HEAD CURVES  
SEDIMENT TRANSPORT IN PIPES  
GEOTECHNICAL MECHANICS; PHYSICAL AND ENGINEERING PROPERTIES; DIKE DESIGN  
DREDGING EQUIPMENT  
MECHANICAL DREDGES; SEDIMENT RESUSPENSION*

Aubeny, Hayes, Bergeron, Randall

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

### **Tuesday, January 12, 2010 (8:00 a.m. - 5:30 p.m.)**

*ESTIMATING DREDGING COSTS  
BASIC DREDGE LAWS  
PRACTICAL DREDGE HYDRAULICS  
SMALL HYDRAULIC DREDGES  
CUTTERS AND CUTTER SUCTION DREDGE OPERATION  
HOPPER DREDGES AND DREDGE CONTROL SYSTEMS  
DREDGING LAB; GEOTECHNICAL LAB*

Aubeny, deJong, Randall, Wetta

### **Wednesday, January 13, 2010 (8:00 a.m. - 5:30 p.m.)**

*PREDICTION OF THE FATE OF DREDGED MATERIAL PLACED IN OPEN WATER  
DEMONSTRATION OF OPEN WATER DISPOSAL MODELS  
DREDGING CASE STUDY  
HYDROGRAPHIC SURVEYING AND POSITIONING EQUIPMENT  
BEACH NOURISHMENT  
DENSITY, FLOW AND PRODUCTION METERS  
GEOTEXTILE CONTAINER SYSTEMS  
DREDGING LAB; GEOTECHNICAL LAB*

Aubeny, Fowler, Erb, Randall, Ransome, Simonelli, Smith

### **Thursday, January 14, 2010 (8:00 a.m. - 5:00 p.m.)**

*MANAGEMENT STRATEGIES AND FRAMEWORK FOR ENVIRONMENTAL EVALUATIONS  
CAPPING AND CONFINED DISPOSAL OF DREDGED MATERIAL  
PHILOSOPHY AND ECONOMIC ASPECTS OF DREDGING CONTAMINATED SEDIMENTS  
DREDGED MATERIAL TESTING PROCEDURES AND EVALUATION OF TESTING RESULTS  
EPA AND THE ENVIRONMENTAL ASPECTS OF DREDGED MATERIAL DISPOSAL  
PORT PERSPECTIVE OF ENVIRONMENTAL DREDGING ISSUES  
ENVIRONMENTAL QUESTION AND ANSWER PANEL  
DREDGING LAB; GEOTECHNICAL LAB*

Aubeny, Chase, Santiago, Mohan, Palermo, Randall, Vogt

### **BANQUET (Thursday Evening, 6:30 - 8:30 p.m.)**

### **Friday, January 15, 2010 (8:00 a.m. - 12:30 p.m.)**

*DESIGN CONSIDERATIONS FOR CREATING/ RESTORING WETLANDS USING DREDGED MATERIAL  
COST ESTIMATING OF DREDGING PROJECTS  
BENEFICIAL USES OF DREDGED MATERIAL  
ENHANCED SETTLING OF SUSPENDED SOLIDS  
CERTIFICATE PRESENTATION*

Griffin, Hauch, Hunter, Mohan, Randall

### **Convenient Bryan/College Station Lodging**

- COMFORT SUITES, 907 University Dr. East, College Station, TX 77840; 979.268.5500
- COMFORT SUITES Aggieland, 2313 Texas Ave. S., College Station, TX 77840; 979.680.9000
- FAIRFIELD INN, 4613 Texas Ave. S., College Station, TX 77840; 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
- HOMEWOOD SUITES, 950 University Dr. E., College Station, TX 77840; 979.846.0400
- LaQUINTA INN, 607 Texas Ave. S., College Station, TX 77840; 979.696.7777
- SUPER 8 MOTEL, 301 Texas Ave. S., College Station, TX; 979.846.8800

### **Airlines:**

AMERICAN EAGLE - Connection from Dallas (DFW)

CONTINENTAL EXPRESS - Connection from Houston (IAH)

**Airport in College Station:** Easterwood Airport (CLL)

## **INSTRUCTIONAL STAFF**

### **Visiting Staff**

RAY BERGERON, President, Cable Arm Inc., Trenton, MI; B.S. and M.S., Western Michigan University.

THOMAS J. CHASE, Executive Director, Coasts, Oceans, Ports and Rivers Institute, American Society of Civil Engineers, Reston, VA; B.S., University of Rhode Island.

PETER S. DEJONG, President, Digital Automation & Control Systems, Inc., Houston, TX; B.S., Technical College of Zwolle; M.S., Delft University; M.B.A., Northwestern University.

TOM L. ERB, Research Engineer, Thermo Fisher, Austin, TX; B.S., Georgia Institute of Technology.

JACK FOWLER, Consultant, Geotec Associates, Vicksburg; M.S. and B.S., University of Mississippi; M.S., Mississippi State University; Ph.D., Oklahoma State University; P.E.

JOSEPH Z. GAILANI, Research Hydraulic Engineer, Coastal and Hydraulics Laboratory, Engineering Research and Development Center, Vicksburg, MS; B.S. and M.S., Northwestern University; Ph.D., University of California at Santa Barbara.

JAMES GRIFFIN, Tri-Flo International, Inc., Conroe, TX.

ROBERT G. HAUCH, Physical Scientist, Galveston District, US Army Corps of Engineers, Galveston, TX; B.I.E. and B.S., Georgia Institute of Technology; M.S., Florida Institute of Technology.

DONALD F. HAYES, UNOCAL/BORSF Professor of Civil Engineering, University of Louisiana at Lafayette; Ph.D., Colorado State University; P.E.

DEWEY W. HUNTER, Business Manager, Ciba Specialty Chemicals Corporation; A.A.S., Purdue University; B.S., Regent University.

RAM K. MOHAN, Partner, Anchor QEA, LLC.; B.S., Cochin University of Science & Technology; M.S., University of Rhode Island; Ph.D., Texas A&M University; P.E., Maryland and South Carolina.

MICHAEL R. PALERMO, Michael Palermo Consulting, Vicksburg, MS; B.S. and M.S., Mississippi State University; Ph.D., Vanderbilt University; P.E.

CHRIS R. RANSOME, President, CRA, Inc., Houston, TX; B.Sc., University of Southampton, UK; M.Sc., University of Durham, UK.

ROGER SANTIAGO, Remediation Technologies Program, Environment Canada, Downsview, Ontario, Canada; B.E.S., University of Waterloo.

DAVID SIMONELLI, Vice President, Great Lakes Dredge and Dock, Oak Brook, IL.

JARRELL SMITH, Coastal and Hydraulics Laboratory, Engineering Research and Development Laboratory, Vicksburg, MS; B.S. and M.S., Clemson University.

CRAIG VOGT, Consultant, Washington, DC; B.S. and M.S., Oregon State University; P.E.

WILLIAM J. WETTA II, President and CEO, Dredging Supply Company, Reserve, Louisiana; B.S., Louisiana State University; P.E.

### **Texas A&M University Staff**

CHARLES P. AUBENY, Associate Professor of Civil Engineering, Construction, Geotechnical & Structural Division, Zachry Department of Civil Engineering; B.S., University of Arizona; M.S., University of Colorado; Ph.D., Massachusetts Institute of Technology; P.E.

BILLY L. EDGE, Professor Emeritus, Coastal and Ocean Engineering Division, Zachry Department of Civil Engineering; B.S. and M.S., Virginia Polytechnic Institute; Ph.D., Georgia Institute of Technology; P.E.

ROBERT E. RANDALL, Ford Professor of Ocean & Civil Engineering, Coastal and Ocean Engineering Division, Zachry Department of Civil Engineering; Director, Center for Dredging Studies; B.S., Ohio State; M.S. and Ph.D., University of Rhode Island; P.E.

**ENROLLMENT APPLICATION**  
**39<sup>th</sup> DREDGING ENGINEERING SHORT COURSE**  
**JANUARY 11 - 15, 2010**

*(Print Legibly or Type, please)*

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Name: Last First M.I.

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Position / Title

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Employer / Company Name

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Street Address or Mailing Address

---

City State Country Zip Code

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Telephone Fax Email Address

**Course Fee:** \$1325.00 (includes textbook, lecture notes, banquet and local transportation).

**Enrollment:** Advance enrollment by December 1, 2009 is required and may be made by individuals or companies. Applicants must mail, fax or email completed enrollment application and mail payment for \$1325 (check or money order payable in U.S. dollars and drawn on a U.S. bank) and made payable to *Texas A&M University*; or, a government purchase voucher must be sent. No credit card payments accepted. NO CANCELLATIONS will be granted AFTER DECEMBER 1, 2009

**Application Deadline:** **December 1, 2009**

**Payment Made Payable to:** **TEXAS A&M UNIVERSITY**

**Mail Application to:** Dr. R. E. Randall  
Center for Dredging Studies  
Ocean Engineering Program  
Zachry Department of Civil Engineering  
Texas A&M University  
College Station, TX 77843-3136

**Questions & Information:**

Dr. R. E. Randall, Director  
Tel: 979.845.4568; Fax: 979.862.8162; Email: [r-randall@tamu.edu](mailto:r-randall@tamu.edu)  
Web Site: <http://oceaneng.civil.tamu.edu>  
Ms. Pam Fambro, Administrative Assistant  
Tel: 979.845.4515; Fax: 979.862.8162; Email: [pfambro@civil.tamu.edu](mailto:pfambro@civil.tamu.edu)