

CURRICULUM VITAE

CHARLES H. COLEMAN, JR.

Texas A&M University at Galveston
Marine Sciences Department
P. O. Box 1675
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Home address: Galveston, Texas

PERSONAL

Date of Birth: August 3, 1952, Dallas, Texas
Marital Status: Married (35 years)

EDUCATION

1985-1986 M.S., Physical Science (Geology), University of Houston at Clear Lake, Houston, Texas 77058-1098
1981-1982 Geological Oceanography Department, Texas A&M University, College Station, Texas 77843 (Working on Master's Degree, 19 hours)
1974-1975 B. S., Marine Sciences, Texas A&M University, Moody College, Galveston, Texas 77553
1972-1974 Sam Houston State University, Huntsville, TX 77341
1970-1972 Texas A&M University, College Station, TX 77843

PROFESSIONAL EXPERIENCE

2015-present Instructional Assistant Professor, Introductory Oceanography Lab
Director, Marine Science Department of Texas A&M University at Galveston
2006-2015 Senior Lecturer and Geology Lab Director, Marine Science Department of Texas A&M University at Galveston
1982-2005 Lecturer in Marine Sciences/Research Associate/Lecturer in Introduction to Oceanography, Oceanography Lab Instructor and Director of Geology Labs (Physical Geology, Field Methods, Physics, Sed-Strat) at Texas A&M at Galveston
1986 (Summer) Lecturer, Fundamentals of Oceanography, University of Houston at Clear Lake, Houston, TX 77058-1098
1982 (Summer) Research Assistant, Texas A&M University at Galveston, Galveston, TX 77553, NOAA Contract NA-82-CDA-284
1981-1982 Sediment Technician, Chemical Oceanography Department, Texas A&M University, College Station, Texas 77843
1976-1980 Laboratory Instructor, Texas A&M University, Moody College, Galveston, Texas 77553

1976-1980

Research Assistant, Coastal Zone Laboratory, Texas A&M
University, Moody College, Galveston, Texas 77554

PUBLICATIONS, TECHNICAL REPORTS, ABSTRACTS

Baskaran, M., Coleman, C. H., and Santschi, P. H., 1992. Atmospheric depositional fluxes of ^7Be and ^{210}Pb at Galveston and College Station, Texas. (Journal of Geophysical Research in press as of November, 1993).

Benoit, G., Oktay, S., Cantu, A., Hood, M. E., Coleman, C., Corapcioglu, O., and Santschi, P. H., 1992. Partitioning of Cu, Pb, Ag, Zn, Fe, Al, and Mn between filter-retained particles, colloids and solution in six Texas estuaries, Mar. Chem., in press, November 1993.

Laodong, G., Coleman, C. H., Santschi, P. H., 1992. The distribution of Colloidal and Dissolved Organic Carbon in the Gulf of Mexico. (in press November, 1993).

Abstracts:

Santschi, P. H., Baskaran, M., and Coleman, C. H., 1991. Interfacial processes in estuarine and coastal marine environments, Ocean Sciences Meeting, American Geophysical Union, New Orleans, Jan. 27-31, 1992, EOS, 72/51, 26.

Santschi, P. H., Baskaran, M., and Coleman, C. H., 1991. The coupling of interactions between ions, particles and sediments in estuaries as revealed by natural radioisotopes such as those of Th, Be, and Pb. 11th Biennial International Estuarine Research Conference, San Francisco, Nov. 10-14, 1991.

Benoit, G., Coleman, C. H., Cantu, A., Griffin, L., and Santschi, P. H. 1990. Trace metals in Texas estuaries. EOS 71/2, 112.

Baskaran, M., Coleman, C. H., Benoit, G., and Santschi, P. H., 1990. Natural radionuclides in Texas estuaries. EOS 71/2, 71.

Cantu, A., Coleman, C. H., Benoit, G., and Santschi, P. H., 1990. Trace metals in Texas estuaries. Proc. Texas Acad. Science 93rd Meeting, March 2-3, 1990.

SPONSORED RESEARCH PARTICIPATION

Summer of 2005: GLO Contract No. 04-366 C; WO# 1231-05-001, Galveston Offshore Sand Sources Study Phase 1: Field Investigation
Dr. Tim Dellapena, Principle Investigator.
Design and supervision of offshore Galveston vibracore sampling and analyses to delineate sand resources for beach renourishment efforts for The GLO of Texas.

1993 Vibracoring in the Galveston Ship Channel - Delineation of local sand bodies,
City of Galveston, \$4950

Texas A&M Research Foundation, "Vibracoring in the Galveston Jetty System".
Co-Principal Investigator, Dr. E. L Estes and C. Coleman, 1993 (\$4975), (RF-93-350)
Participation was under P.I. and Co-P.I.'s and includes; planning and execution of
experiments, field sampling, lab analytical work, purchasing of supplies and data
acquisition and analyses.

Unpublished

Sponsored Independent Student Research Study done as a 485 problems Course,
TAMUG. "Galveston Island's West End: A Study of Beach Morphological Responses
During The 2003 Atlantic Hurricane Season", Prepared for Charles H. Coleman Jr. , by
Michael S. Lee, Andrew J. McInnes, Mandy Daigle, undergraduates at Texas A&M At
Galveston, December 26, 2003.

Vibracoring Follets Island. Looking for possible sand renourishment deposits. Six 485 Problem
Course students assisted by myself, Dr. Estes and Dr. Tim Delapena. **Fall of 2004 and continuing.**

University of North Texas Teacher Workshop, under Sea Camp, TAMUG, Dr. Judy Wern
Sponsorship. Summer of 2005, Teaching High School Teachers Coastal Process Field sampling
techniques and theory.

PROFESSIONAL SKILLS

- * Teaching and organization of college level courses in Geology and Oceanography
- * Characterization of coastal environment, paleo and modern, with strength in geochemical and hydraulic regimes, and the physical nature of sedimentation
- * Environmental assessments of man's impacts on Coastal Processes, geochemical and physical
- * Field sampling experience includes, ultra-clean trace metal sampling techniques for ppb conc. levels, vibra-coring, piston coring, gravity coring, bathymetry mapping and plane surveying
- * Development of computer programs for sediment textural and regression analyses
- * Trace metal ion determinations for sediment and water column with Atomic Absorption Spectrophotometer/ Flame and HGA Graphite Furnace
- * TOC analyses (using Shimadzu 5000 model)
- * Excellent writing and verbal skills with the ability to instruct, supervise and coordinate group activities

EXPERIENCE AND ACCOMPLISHMENTS

* Developing MARS 310 Field Methods Course, Developing MARS252 and OCNG252 Introductory Oceanography Lab as separate 3 and 2 hour labs courses one for science majors and one for non-science majors respectively and have developed Science Olympiad science tests since 2010 at for Marine Science Department Texas A&M at Galveston

* Environmental Assessment of the Buccaneer Oil/Gas Field (Sampling, textural analyses ,data reduction)

* Aquatic Disposal Field Investigation, Galveston disposal site-investigation of the hydraulic regime and the physical nature of sedimentation (statistical evaluation of textural data)

* Corpus Christi Environmental impact Study (trace metal determination and textural analyses of sediments)

* Trace metal Re-cycling for Dike Dredge Disposal (coring, trace ion determination and sediment textural evaluation)

* Sabine Pass Sampling Program (grain size analyses and associated statistical data reduction)

* Consulting with Southwestern Laboratory for Dupont (analyses of Tetra-ethyl Lead containment pond for leaching pathways to adjacent bay environment)

* Consulting with Chemical Oceanography Dept., Texas A&M University (physical and geochemical sediment evaluation)

* Seminar presentation for young visiting students to Texas A&M University at Galveston, on Marine Geology and possible Marine Science Careers

* Graduate level course work and related research papers:
Plate Tectonics- Initial and Modifying Influences On Subduction Zone Geometry
Remote Sensing- Seafloor Remote Sensing And Some Recent Influences On Tectonic Concepts
Environmental Chemistry- Critique of Cytotoxicity and
Genotoxicity and Application of Cell Culture Techniques To The Measurements of Marine Sediment Pollution

* Other relevant Graduate Courses:

Structural Geology

Sedimentary Petrology

Petroleum Geology

Seismic Interpretation

Probability & Statistical Inferences

Geologic Writing

Astronomy: Planetary Sciences

Chemical Oceanography

Biological Oceanography

Research Methods in Geology

* United States Yacht Racing Union (USYRU) Qualified Sailboard Instructor

* I am a Songwriter/Guitarist as a hobby and creative outlet