

# Fundamentals of Offshore Structures (FOS)

April 19-30, 2021

The University of Texas at Austin

Instructor Biography



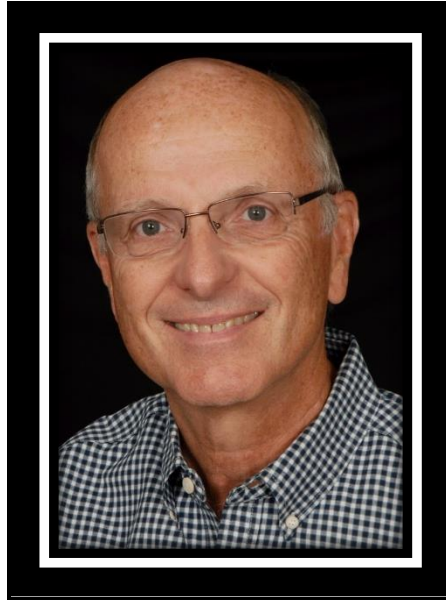
**DR. SPYROS A. KINNAS**  
Faculty-In-Charge  
The University of Texas at Austin



- Hudson Matlock Professor, Civil, Architectural and Environmental Engineering, University of Texas at Austin, Cockrell School of Engineering
- Associate Director, Offshore Technology Research Center
- In charge of Ocean Engineering Graduate program at UT Austin
- Diploma, Naval Architecture and Marine Engineering, National Technical University of Athens, Greece
- Ph.D., Massachusetts Institute of Technology (M.I.T.)
- 10+ years' experience in research and teaching at M.I.T. (Dept. of Ocean Engineering)
- Founded in 1993 consortium on cavitation of high speed propulsors (currently in Phase VIII)
- Fields of specialization include marine propulsors, thrusters, and tidal/ocean current turbines; cavitating and separated flows; wave theory and wave body interaction; computational hydrodynamics with applications on the prediction of performance and design of devices used for the propulsion or control of ocean vehicles and offshore structures
- Website: <http://www.cae.utexas.edu/prof/kinnas/home.html>

# JOHN JONES

ExxonMobil (Retired)



- 34 years of experience at ExxonMobil as a structural engineer involved in design, construction and installation of fixed offshore oil and gas platforms. The platforms locations include Malaysia, Australia, Japan, and the UK and Norwegian North Sea
- B.S. and M.S. Degrees in Civil Engineering (Structural), Oklahoma State University
- Retired

## **J. WARD TURNER**

ExxonMobil (Retired)



- BSCE - Rice University 1976
- MS - Rice University 1978, thesis on dynamics of cylindrical liquid storage tanks under Dr. A. S. Veletsos
- 39 + year career with Exxon and ExxonMobil primarily related to engineering of offshore structures - design, research and project implementation. Retired as the Senior Technical Professional for Civil and Structural Engineering
- 2016 to 2019: Professional Consultant to industry
- 2000 to 2016: ExxonMobil Development Company
- 1986 to 2000: Exxon Production Research Company
- 1978 to 1986: Exxon USA Platform Design Section

## DR. ALI SARI

Omega Advanced Engineering and Risk Consulting



- Twenty plus years' experience as a structural engineer in onshore and offshore oil and gas industry
- Director of Omega Advanced Engineering and Risk Consulting, "Omega-Risk" in Houston
- Key experience areas are offshore structures, blast/fire engineering, finite element analysis, earthquake engineering, reliability analysis, and fatigue/crack growth analysis
- Author of more than 80 technical publications in these areas and he is also a member of ASCE, API, and ISO technical committees regarding Offshore Structures
- Ph.D. in Structural Engineering from the University of Texas at Austin

## **DR. ROBERT GILBERT**

The University of Texas at Austin



- Brunswick-Abernathy Professor and Department Chair, Civil, Architectural and Environmental Engineering Department, The University of Texas at Austin, Cockrell School of Engineering
- B.S., Civil Engineering, University of Illinois at Urbana-Champaign
- M.S., Civil Engineering, University of Illinois at Urbana-Champaign
- Ph.D., Civil Engineering, University of Illinois at Urbana-Champaign
- Experience: consultant on the design and assessment of numerous fixed and floating offshore structures
- University instruction: undergraduate courses in Soil Mechanics, Foundation Engineering and Probability and Statistics; graduate courses in Foundation Engineering, Slope Stability, Geo-environmental Engineering and Decision, Risk and Reliability Analysis; and short- course instruction in Design and Construction QA/QC for Waste Containment Systems, Slope Stability, Risk-Based Decision Making, and Risk and Reliability Analysis for Levees and Dams
- Awards and Fellowships: Numerous award and fellowships, including U.S. Army Corps of Engineers Medal for Outstanding Civilian Service for Hurricane Katrina work

# KERRY CAMPBELL

Fugro Marine GeoConsulting, Inc.



- Principal Geoscientist, Fugro Marine GeoConsulting, Inc., Houston
- B.S., Geology, University of Massachusetts, Amherst, 1968
- M.S., Geology, University of Massachusetts, Amherst, 1975
- More than 45 years of professional engineering-geological experience, including employment with the U.S. Geological Survey, Geophysical Survey Systems, D'Appolonia Consulting Engineers, BBN Geomarine, McClelland Engineers and Fugro
- Fields of specialization: deepwater geohazards assessment; integrated marine site characterization; interpretation of marine high-resolution and 3-D seismic data for engineering purposes, including pipeline routing and platform siting; prediction of general geotechnical properties of marine soils; geologic assessment of seafloor stability; assessment of shallow-water-flow and other drilling hazards; and preliminary engineering assessments of deepwater areas. Experience includes engineering-geologic interpretation of high-resolution seismic and soils data acquired in various areas off North and South America, Africa, Asia, Australia and Europe
- Helped pioneer marine engineering geology and marine integrated site investigations for the petroleum industry
- Authored and co-authored some 45 technical papers on geology, engineering geology, engineering geophysics and marine geohazards
- Certified Professional Geologist; Licensed Professional Geoscientist in Texas; Registered Geologist and Certified Engineering Geologist in California

# DR. JEAN AUDIBERT

Independent Consultant



- Independent Consultant to the oil & gas industry
- Formerly, VP of Engineering, Fugro-McClelland Marine Geosciences, Inc.
- B.S., engineering, Ecole Nationale Supérieure d'Arts et Métiers, Paris, 1968
- Ph.D., Civil Engineering, Duke University, 1972
- Participated as main investigator or director in State-of-Practice and State-of-the-Art studies for deepwater platforms, offshore pile-supported and gravity structures and State-of-Art reviews on pile group foundations and on pile foundations in calcareous soil
- Experience: 37+ years' foundation design, in situ testing, tool development, certification of platforms, pipeline routing and engineering, feasibility studies, pile load tests, and research and development studies



# DR. ATEF “ADAM” SALEH, PE, MBA

Solquest Engineering, Inc.



- President of SOLQUEST Engineering Inc., providing geotechnical consulting services to the oil and construction industries
- Former positions include:
  - Staff contractor at Chevron in Houston, Texas for over 5 years providing geotechnical engineering and management services for projects in West Africa, Australia, Gulf of Mexico, North Sea, and Asia
  - Staff contractor at Shell in Houston, Texas for over 4 years providing geotechnical engineering and management services for projects worldwide
  - Senior Research Engineer in the Offshore Division of ExxonMobil Upstream Research Company, developing new technology to improve design basis and reduce costs of foundation systems in deepwater. Also provided geotechnical stewardship and consulting for ExxonMobil affiliates on offshore exploration, development, and production projects worldwide
  - Project Manager/Branch Manager for geotechnical firms in Massachusetts, Florida and Texas
  - Registered Professional Engineer in multiple states with over 34 years of progressive technical and management experience in onshore and offshore projects worldwide. Experience pertinent to this course include:
    - Soil Field Investigation/Soil Laboratory Testing Programs
    - Foundation Engineering Design & Analysis/Shallow & Deep Foundations
    - Mudmats/Hybrid Foundation (Mudmats and pin piles)/Piles
    - Foundation Installation
    - Pile Monitoring during Installation
    - Pile Drivability Prediction during Design Phase/Pile Fatigue Studies
    - Foundation Failure Analysis/Slope Stability
    - Jack-up Rig Foundation Design & Analysis
    - Casing/Conductor Design & Analysis
- B.S. M.S, Northeastern University, Boston, Massachusetts
- MBA, Rice University, Houston, TX
- Ph.D., The University of Texas at Austin, Austin, Texas

## **DR. KARL FRANK**

The University of Texas at Austin (Retired)



- Professor, Emeritus Civil Engineering, University of Texas at Austin, Cockrell School of Engineering
- B.S., Civil Engineering, University of California at Davis
- M.S., Civil Engineering, Lehigh University
- Ph.D., Civil Engineering, Lehigh University
- Ten plus years of engineering experience with government and industry
- University instruction: 40+ years' teaching, Lehigh University and University of Texas at Austin

# RODNEY DESCHAMPS

Chevron Energy Technology Company



- 2013 – Present: Chevron ETC, SCME, Marine Terminal Engineer
- 1991 – 2013: Senior Managing Principal Engineer, ABS Americas Offshore Engineering Department, Structures Group
- B. S., Civil Engineering, Texas A&M University
- M.S., Petroleum Engineering, University of Houston
- Prior to ABS Americas 10+ years of offshore structures design experience