

Design of Fixed Offshore Platforms (DFOP)

May 9-20, 2022

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>

DR. ADEL YOUNAN

ExxonMobil Upstream Research Company



- Senior Offshore Civil and Structures Consultant at ExxonMobil and a licensed PE with 25 years of experience
- He holds three Civil Engineering degrees – a PhD from Rice U., an MSc and a BSc from Cairo University. Recently, he also pursued an MSc in Applied Statistics from Penn State University
- Adel’s career started in 1994 at Rice U. as a postdoctoral researcher for 2 years. His research focus was earthquake engineering and dynamic soil-structure interaction
- He then joined the industry starting with EQE International (ABS Consulting), then MSL Engineering (Atkins), Mustang Engineering (Wood) and finally joined ExxonMobil in 2000. His industry experience covered offshore platforms, seismic and arctic concepts
- At ExxonMobil, he started in the risers group, leading then the Structures team followed by the Ice Team before becoming a Senior Offshore Civil & Structures Consultant in 2009. He’s played that role for the past 10 years
- Adel was involved with many ExxonMobil mega offshore platforms such as Orlan offshore Sakhalin, Adriatic LNG Terminal offshore Venice, Italy, and the Hebron platform offshore Newfoundland. He has over 61 publications and holds 7 offshore arctic concept patents
- He has been serving in API and ISO committees since 1999, including chairing two Offshore Structural Reliability conferences in 2014 and 2018

DR. OLEG ESENKOV

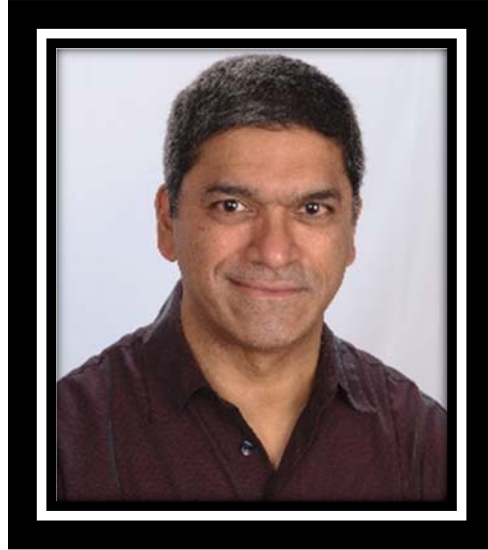
ExxonMobil Upstream Integrated Solutions Company



- ExxonMobil Upstream Integrated Solutions Company, Principal Marine Engineer - Metocean, February 2021 – present
- ExxonMobil Upstream Integrated Solutions Company, Senior Technical Professional Advisor, 2018 – 2021
- ExxonMobil Production Company, Senior Advisor, 2014-2018
- ExxonMobil Development Company, Sr. Development Planner, 2012 – 2014
- ExxonMobil Upstream Research Company, Sr. Research Engineer, 2001 – 2012
- NOAA/AOML, Postdoctoral Associate, 2000 – 2001
- RSMAS/University of Miami, Ph.D., Physical Oceanography, 1994 – 2000
- WHOI/MIT, Research Fellow, Geophysical Fluid Dynamics Program, 1995
- Dartmouth College, M.S., Mechanical Engineering, 1992 – 1994
- Moscow Institute of Physics and Technology, B.S., Physics and Applied Mathematics, 1987 – 1992

DR. LANCE MANUEL

The University of Texas at Austin



- University instruction: Probability and Statistics for Civil Engineers, Structural Analyses; Advanced Structural Analysis, Dynamic Response of Structures; Structural Reliability; Wind Engineering
- Ph.D., Stanford University, Civil Engineering, 1993
- M.S., University of Virginia, Civil Engineering and Applied Mechanics, 1986
- B. Tech., Indian Institute of Technology, Bombay, Civil Engineering, 1984

DR. ROBERT GILBERT

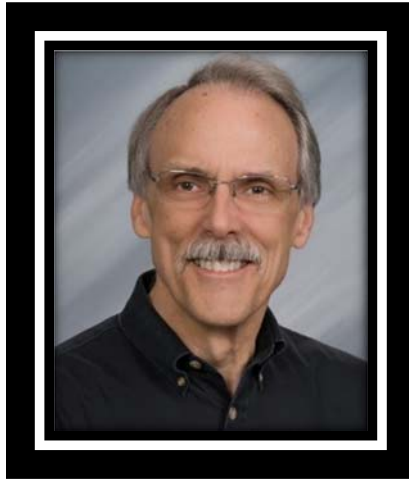
The University of Texas at Austin



- 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

DR. BRAD CAMPBELL

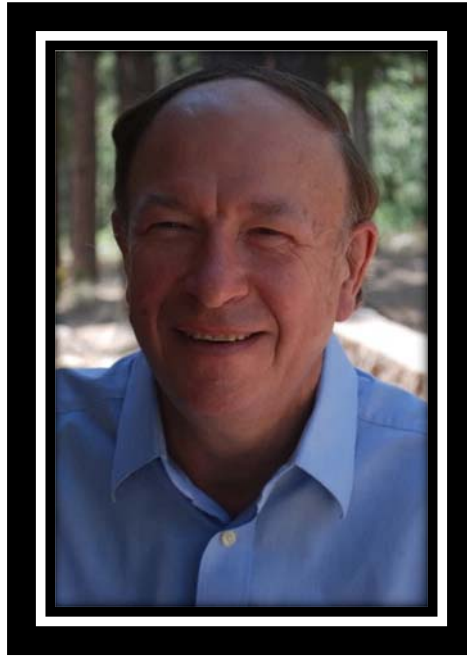
ExxonMobil Upstream Research Company



- Ph.D. in Ocean Engineering from MIT in 1979
- ExxonMobil in Structural Engineering Section the Upstream Research Company
- Group Leader in Structural Analysis Technology Project and was responsible for development and validation of analysis tools used to design of fixed bottom platforms
- Led a team to develop comprehensive structural analysis capabilities for floating structures, 1993
- Riser Group Leader responsible for research on deepwater riser systems, 1999
- Research activities include: vortex-induced vibrations, ultra-deepwater riser systems, LNG sloshing, exploration and development for the Artic and robotic systems to support upstream activities
- Currently the Principle Engineer for Steel Riser Systems

JOHN STIFF

ABS Consulting (Retired)



- Retired from ABS Consulting
- B.S., Civil Engineering, Leeds University; UK, 1976
- *Experience:* Senior Consultant, ABS Consulting; Vice President Risk Analysis, Noble Denton and Associates Inc.; Field Engineer, Pullman Kellogg; Engineer, Noble Denton and Associates Ltd., London, UK; 30+years as a Marine Warranty Surveyor and Risk Analyst in the Offshore Oil Industry involved in transportation, installation and analysis of jackets, jack-up, semi-submersibles and other offshore equipment
- Registered Professional Engineer, Texas; Chartered Engineer, UK

DR. YASHAR MOSLEHY

Spire Engineers



- Doctor of Philosophy in Structural Engineering
- Experience in managing projects and structural engineering resources
- Experience in complex analysis, inspection and design of structures such as performing sudden impact, time-history, response spectrum and pushover analysis
- Experience in analysis and design of complex steel and concrete structures for extreme loading scenarios such as wind, wave, blast, ice and earthquakes using both finite element analysis tools and conventional methods
- Experience in performing and managing offshore inspection campaigns
- Experience in performing risk analysis on structural reliability and its application in codes
- Experience in rehabilitation of reinforced concrete bridges and walls
- In depth knowledge of design codes including: AISC Steel Manual, IBC, AISC 7, ACI 318, ASCE-41, API-RP-2SIM, API RP-2A, API RP-2MET, API 4F and API RP-2EQ