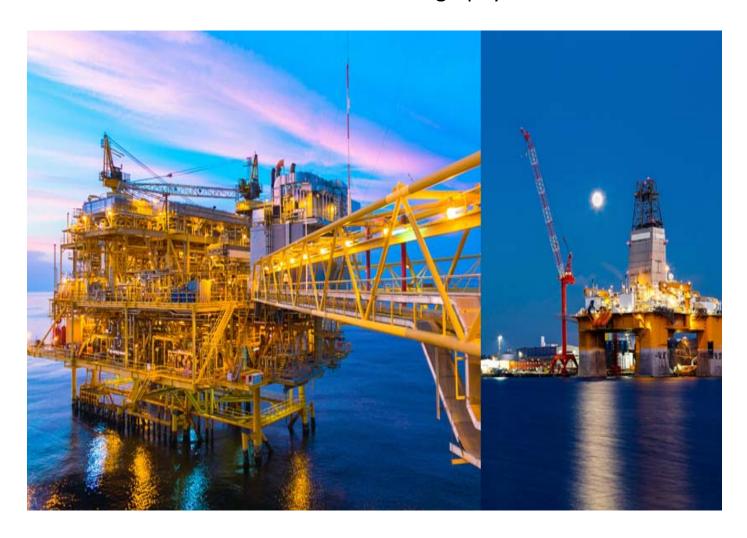


### **Design of Floating Production Systems (DFPS)**

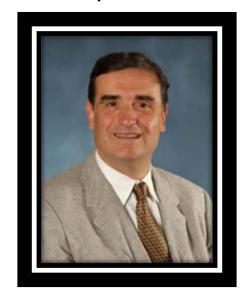
July 11-22, 2022
The University of Texas at Austin

**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: <a href="http://www.caee.utexas.edu/prof/kinnas/home.html">http://www.caee.utexas.edu/prof/kinnas/home.html</a>

#### DR. STEPHEN HODGES

**SBH Creative Consulting** 



- SBH Creative Consulting: Offshore Consultant, Career Coach, Mentor
- Over 35 years in the Offshore Industry
- Gulf Oil Company 1984
- Shell International Exploration and Production, Inc. 1989 2019
- During the 30 years with Shell
  - Worked on the design, fabrication and installation of most of Shell's deepwater developments worldwide to include hydrodynamics, global performance, structural design, construction site engineering, project management and organizational management
  - Serves as the Engineering Manager for Riser Systems for many years
  - Senior Principal Advisor for Pipelines, Flowlines and Risers –
    accountable for assessment and appointment of technical
    authorities, development and maintenance of technical standards
    and technical assurance for major projects
  - Coach and Mentor to Junior Engineers
- B.S. in Civil Engineering from Northwestern University, and M.S. and Ph.D. degrees from the University of California, Berkeley in Naval Architecture & Offshore Engineering, focusing on hydrodynamics and ship motions, whilst consulting in the offshore industry, conducting model tests for various clients, and more than occasionally setting sail on the San Francisco Bay

#### DR. SERGIO JARAMILLO

Shell Oil Company



- Sergio Jaramillo is a Metocean Engineer working for the oil and gas industry since 2011 focusing on the characterization of the offshore environment for platform/instrumentation design, risk analysis, and operational efficiency at sea
- Prior to working for Shell, Sergio worked as a researcher at the Ocean and Resources Engineering Department at the University of Hawaii. He spent 10years in the in the Colombian Navy as a navigation officer, obtained an MSc in Physical Oceanography at the University of British Columbia, a PhD in Coastal and Oceanographic Engineering at the University of Florida

#### DR. RICHARD MERCIER

Texas A&M University



- Director, OTRC and Professor, Civil Engineering, Texas A&M University
- Ph.D., Oceanographic Engineering, MIT/Woods Hole Oceanographic Institution
- S.M., Massachusetts Institute of Technology
- B.A.Sc., University of Waterloo (Canada)
- Experience includes 19 years of research, design, project management and team leadership experience with Shell Oil, focused on technology development for design of Shell's deepwater oil and gas production platforms in the Gulf of Mexico and worldwide. Member of global design team for Shell's Auger, Mars, Ram/Powell and Ursa Tension Leg Platforms in 3000 4000 foot water dept. Leader of global design team for Shell's Na Kika Semisubmersible Floating Production System in 6400 foot water depth. Global design lead for several spar and tanker-based PFSO concept development studies for the Gulf of Mexico, offshore West Africa and the Northern North Sea

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

# **BRIAN MARTIN**Principal Power Inc.



- Senior R&D Engineer
- M.S.E Naval Architecture & Marine Engineering, University of Michigan, 2011
- B.S.E Naval Architecture & Marine Engineering,
   University of Michigan, 2009
- Former Engineer Floating Systems, SBM Offshore
- Areas of specialization:

Global Performance

**Hydrodynamics** 

Floating Offshore Wind

Mooring Design & Analysis

Tendon Design & Analysis

Hydrodynamic Model Testing

Metocean Analysis

Field Development

**Concept Development** 

#### **JOHN KENNEY**

#### **Shell Global Solutions**

- B.S. Civil Engineering (w/ Architectural Option), University of Wyoming, 1981
- M.E. Civil Engineering, Tulane University 1983
- Registered Professional Engineer in the States of Texas and Louisiana
- Chairman of American Petroleum Institute Subcommittee 2 (API SC2)
- American Welding Society (AWS) Certified Welding Inspector (CWI)
- Voting Member of American Welding Society D1 Committee and Chairman of the Tubular Task Group
- Author or co-author of eight OTC papers relative to design and construction of offshore structures
- Holder of two patents relative to offshore structures
- 38 years with Shell in various positions related to the design and construction of offshore structures
- Current role as Principal Technical Expert Offshore Structures in support of the COP Discipline Shell's Offshore developments worldwide
- Background: Provided design and construction support for the Appomattox Semisubmersible, Olympus and Malikai TLP's, Gumusut semisubmersible, Perdido spar. Registered Professional Engineer of Record for Shell' Brutus TLP and Shell's Nakika semisubmersible hulls. On-site construction engineer for Shell's Ursa, Ram/Powell and Mars TLP hulls, the Auger TLP topsides, the Merluza Platform and Shell's Bullwinkle Platform

#### 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, Geoenvironmental 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. THOMAS KWAN

**Kwan Engineering Services** 



- Formerly employed by Exxon Production Research Company
- Ph.D., Civil Engineering, University of Houston
- Fields of specialization include mooring, riser, and floating structures
- Past chairman, API Mooring Resources Group (1982-2006)
- Tom Kwan holds a Ph.D. degree in structural engineering and has more than 40 years of experience in mooring, riser, and floating structure design.
- From 1982 to 2006, Tom was chairman of the API Mooring Task Group, responsible for the development of API RP 2SK for mooring design, API RP 2I for mooring inspection, and API RP 2SM for fiber rope mooring.
- He has initiated, steered, and conducted a number of joint industry projects including several DeepStar projects to advance mooring technology. Tom worked with ABS to conduct a JIP on polyester rope stiffness modeling and revised the ABS Guidance Notes on the Application of Fiber Ropes for Offshore Mooring.
- Tom worked for The Offshore Company from 1972 to 1978, and Exxon Production Research Company from 1978 to 2000, and later works as a consultant for a large number of companies such as JD Marine, SparTEC, Chevron, and IntecSea.

#### ROBERT LITTLE

Chevron Energy Technology Company



- Offshore Geotechnical Engineer
- B.S. summa cum laude and M.S., Civil Geotechnical Engineering, Texas A&M University
- Experience includes leading offshore site investigations worldwide. His experience in foundation design ranges from sites with underconsolidated deltaic clays to those with sediments having a density similar to that of concrete. His analytical and numerical experience includes: finite element modeling of the subsidence and seabed displacements resulting from offshore sulfur mining; wave-induced seabed instability and mudflow effects on platforms in the Mississippi delta; quantification of the risk of earthquake-induced slope failures and subsequent debris flow and turbidity current effects on development infrastructure; and the effects on subsea facilities and well stability that can result from the dissociation of naturally occurring gas hydrates in the shallow seabed during hydrocarbon production
- Immediately prior to joining Chevron, Rob was Engineering Manager and Senior Consultant at Fugro GeoConsulting, Inc. He has worked as a consultant, project manager and engineer for offshore geotechnical firms for the previous 26 years
- Working to establish international standards for offshore foundation design of fixed and floating structures
- Areas of Expertise: Design of offshore foundations and the application of geotechnical engineering concepts in the evaluation of geological hazards

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- Areas of Expertise: Design of offshore foundations and the application of geotechnical engineering concepts in the evaluation of geological hazards

## DR. ORIOL RIJKEN SBM Offshore



- Manager, Floating Systems
- Educational background: Masters, Mechanical Engineering, Delft University of Technology, 1989 Masters, Ocean Engineering, Texas A&M University, 1991 PhD, Civil Engineering, Texas A&M University, 1997
- Atlantia Offshore now SBM Atlantia; 1997 present
- Areas of specialization:

Tension Leg Platforms & Semi Submersibles

Model testing

Data monitoring

**Global Performance** 

Semi-Submersible Vortex Induced Motion

Weight control & Ballast Systems

#### **ASHISH BUDHIRAJA**

- 30 years of experience in Offshore Oil and Gas and Marine industry
- Experience: SBM Offshore, KBR, and American Bureau of Shipping
- MS Degree in Structural /Civil engineering
- Registered Professional Engineer (PE) in Texas