

# DeepStar®

## Global Offshore Technology Development Consortium

### 28 Years of Industry Excellence

#### DeepStar Recruiting Members for DeepStar 2019

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DeepStar is the industry's longest running and most successful offshore technology development consortium and it has generated significant value by providing technology transfer to its members and the industry. There is an increased need in the industry for an operator-driven, collaborative technology development program.

#### DeepStar® Core + Satellite Model

##### Core Program

DeepStar CORE Program focuses on all members' common collaborative technology needs; discusses industry technology issues and develops ideas for larger, elective satellite projects.

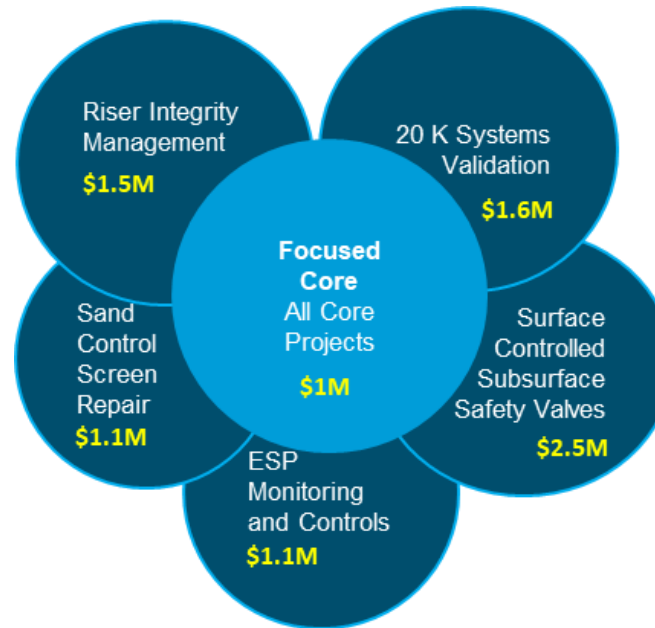
##### Satellite Program

Focuses on elective Satellite Projects in which the technology advancement is aided by collaborative among interested parties.

##### Partnership Program

Leverage external non-member funds to advance technology for industry and our members needs.

#### DeepStar 2019 Model



#### DeepStar® Technical Subcommittees:

- **Drilling, Completion and Intervention**
  - Drilling Operations
  - Downhole Early Kick Detection
- **Flow Assurance**
  - Concurrent Wax and Hydrates Deposition
  - Plugged Flowline Diagnostic Technologies
  - Quantifying the Effect of Insulation on Hydrate Deposition in Gas-Filled Deadlegs
- **Subsea Systems Engineering**
  - Thermoplastic Composite Pipe in Deepwater
  - Subsea Asset Integrity – Docking Station Standardization
  - Subsea Composite Flowlines
  - Subsea Electrical Fail-Safe Valves
  - Subsea Leak Detection with AUV
  - Integrated Flowline cost reduction program
  - HPHT Systems Review & Validation
- **Floating Systems & Met-Ocean**
  - Integrity Management
  - Riser Continued Service
  - Accurate and Reliable Surface Measurement
  - Data Standardization for Digital Lifecycle

#### Potential Technical Subcommittees

- **Geoscience**
- **Reservoir**
- **Operations**

#### DeepStar Membership Fee

- **Core Member (\$100,000 - annual)**
- **Associate Member (\$15,000 - annual)**

#### CORE Members



#### Potential Participants

Apache  
Aramco  
BP  
HESS  
INPEX  
Kosmos Energy  
LLOG  
PEMEX  
PETRONAS  
Repsol  
Tullow Oil



## **DeepStar Management Committee**

**Anadarko** — Flora Yiu

**Chevron** — Shak Shamshy (Chairman)

**CNOOC** — Jiayou Mao

**Equinor** — Anish Simon

**ExxonMobil** — William Van Geertruyden &  
Ginny Garriques

**JX Nippon**—Umezu Kaoru

**Petrobras** — Cesar Lima

**Shell** — Dahai Chang

**Total** — Khalid Mateen

**Woodside** — Julie Morgan

## **DeepStar Staff**

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# DeepStar®

A Global Offshore Technology  
Development Consortium



## DeepStar®

### **Mission**

Initiate an industry-led cooperative effort to develop economically viable, fit-for-purpose offshore production technology with global applicability and to support the qualification and acceptance of this technology.

### **Value**

Leverage financial & technical resources to:

- Accelerate technology development
- Build deepwater technical competency
- Remove Barrier to technology introduction

### **Strategy**

- Align technology development with offshore business needs
- Gain acceptance of deepwater technologies by industry
- Transfer and apply technology to offshore assets

