

## **CENTRE FOR OFFSHORE RESEARCH & ENGINEERING (CORE)**

1. The Singapore Economic Development Board (EDB) and the National University of Singapore (NUS) officially launched the Centre for Offshore Research & Engineering (CORE) in September 2004. This milestone event for the oil & gas and offshore engineering industry was supported by a 'pledge of commitment' from Keppel Offshore & Marine Ltd, Cooper Cameron Corporation, SMOE (a subsidiary of SembCorp Utilities) and Lloyd's Register Asia.
2. CORE aims to be a leading centre for research and education in the field of oil & gas and offshore engineering. Hosted by the Faculty of Engineering in National University of Singapore (NUS), it will coordinate the R&D and manpower developments for Singapore's offshore engineering industry. CORE aims to be the platform for industry, universities, and A\*STAR (Agency for Science, Technology and Research) and its public research institutions, to work closely together on R&D – both program-based and project-specific collaboration, as well as education and training. It is envisaged that a common platform such as CORE will facilitate ties with the industry, including oil & gas companies, contractors, equipment manufacturers and consultants.
3. CORE has the following objectives:
  - Promote and coordinate R&D and manpower developments for Singapore's offshore engineering industry
  - Establish an influential, constructive and convenient platform for networking amongst offshore and marine industries, universities and research institutes
  - Develop identified core and strategic research programs which result in knowledge generation and IP creation
  - Facilitate the transfer of technology and know-how for upgrading and training of manpower through courses, workshops and lectures
4. Currently, CORE is working on the following areas:
  - Innovative structural and foundation schemes for offshore systems
  - Installation engineering, dynamic modelling and control
  - LNG infrastructure (safety, gas storage and processing)

- Novel design, construction and repair technologies for fixed and/or floating structures
- System integrity and Hazard mitigation

### **How can companies participate in CORE?**

5. Companies can participate in CORE through one or more of the following ways:

- *Project-based R&D collaboration*  
This would address company-specific needs for the short to medium term.
- *Program-based R&D collaboration*  
This would address industry-specific needs for the medium to long term.
- *Advisory committee*  
The Advisory Committee, comprising members from academia and industry, will provide advice on technological developments and advances in the offshore and related industries which the Centre may establish R&D programs or initiate industry collaboration projects.

### **Recent Activities in CORE**

6. CORE has successfully organized a number of international conference and workshops, and professional level short courses conducted by renowned experts, including:

- FPSO JIP Week and Research Forum in April 2004
- International Conference on Technology & Operation of Offshore Support Vessels in September 2005 (with Singapore Joint Branch of RINA-IMarEST)
- OGP-CORE Workshop on The Jack-up Drilling Option – Ingredients for Success in October 2005 (with International Association of Oil & Gas Producers)
- 19<sup>th</sup> TEAM Conference in December 2005

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