

## THE SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

# STUDENT DESIGN COMPETITION PARTICIPATION GROWING STRONGER BUT WE STILL NEED MORE ENTRIES

SNAME has a number of student design competitions each year that attract entries from Europe and South America as well as the U.S. Both the number of competitions and the number of entries have been increasing. The two oldest each have more than 10 entries this year and the two newer competitions have 7 and 2 entries. However, we still need more entries.

The granddaddy of the design competitions is the **Dr. James A. Lisnyk Student Ship Design Competition** for ships above 500 tons displacement. The Lisnyk SSDC is open to undergraduate students who are Student Members of SNAME and/or ASNE in their final undergraduate year of an accredited naval architecture program. Students can enter as individuals or in teams of up to six students. Designs shall meet the requirements for the identified in the competition rules.

The other design competition that is going into its 4<sup>th</sup> year is the **International Student Offshore Design Competition (ISODC)**, which is sponsored by a number of professional institutions including the Society of naval Architects and Marine Engineers, the Offshore Ocean and Artic Engineering Division of the American Society of mechanical Engineers, the Coastal, Ocean, Port and Rivers Institute of the American Society of Civil Engineers and the Institute of Marine Engineering, Science and Technology. The three key missions of the ISODC are to promote student interest in the offshore industry, its technology, and the practice of various engineering disciplines for offshore applications; recognition by educators of the application of their particular engineering disciplines to offshore endeavors; and offshore industry awareness of the schools which address offshore applications and where future talent may be found.

Two newcomers to the design competition ranks are the **International Student Workboat/Small Craft/Yacht Design Competition (ISWSCYDC)** and the **MARAD International Student Commercial Design Competition (MCSDC)**.

The **ISWSCYDC** was initiated to provide a design competition for students to fill the gap by covering workboats, small craft and yachts with and overall length from 10 to 70 meters and a displacement less than 500 MT.

The **MISCSDC** is sponsored by the U.S. Maritime Administration and is specifically for commercial ships. For this year the sponsors identified a specific short sea RO-RO need for which the designs were to be prepared. The MCDC is open to undergraduate students in their final undergraduate year of an accredited naval architecture program. Students can enter as individuals or in teams of up to six students. Designs shall meet the requirements for the identified specific operational need.

Three prizes will be issued for \$1,500, \$750 and \$500 for the First, Second and Third Awards respectively for each competition, except the ISODC where the prizes are \$2,500, \$1,500 and \$1,000.

Further details of all the student design competitions can be obtained from the following contacts:

<http://www.sname.org/standing/education/competitions.html>

<http://www.sname.org/standing/education/Lisnyk/index.htm>

<http://www.isodc.com/>

<http://www.sname.org/standing/education/ISWSCYDC/index.html>

<http://www.sname.org/standing/education/Marad/index.htm>

The ISODC Web site also provides accessible copies of the winning designs for the past years.

In recent years the Lysnyk competition has been struggling to obtain enough entries but this year has rebounded back. The ISODC gets more entries each year. Of the two new design competitions the ISWSCYDC has an encouraging number of entries for the first year, but the MCSDC has been struggling, despite the efforts of its sponsors and the Education Committee.

It is not too late to enter a design providing it meets all the competition rules and is submitted by the stated deadline.

To show the wide range of designs entered into each competition this year's entries are:

### **LISNYK**

- |  |   |                                     |
|--|---|-------------------------------------|
| 1. Live Food Fish Carrier              |   | University of Newcastle             |
| 2. Double Acting CNG Ship              |   | University of Newcastle             |
| 3. Oceanographic Research Ship         |   | University of Newcastle             |
| 4. LCS                                 |   | University of New Orleans           |
| 5. Containership<br>Technology         |   | Norwegian University of Science and |
| 6. CNG Carrier<br>Technology           |   | Norwegian University of Science and |
| 7. Advanced Logistics delivery vehicle | 1 | Virginia Tech                       |
| 8. Advanced Logistics delivery vehicle | 2 | Virginia Tech                       |
| 9. Littoral Warfare Submarine          | 1 | Virginia Tech                       |
| 10. Littoral Warfare Submarine         | 2 | Virginia Tech                       |

### **ISODC**

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|--|--|-----------|
| 1. Design of a Floating Liquefied Natural Gas Production<br>Storage and Offloading Facility for Offshore Indonesia |  | Texas A&M |
| 2. South China Sea Floating Liquefied Natural Gas<br>Facility Design   |  | Texas A&M |
| 3. Design of West Africa Floating, Production, Storage,<br>and Offloading Liquefied Natural Gas Unit               |  | Texas A&M |

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|--|--|
| 4. Design of a Floating Liquefied Natural Gas Production Vessel for Timor Sea                                | Texas A&M                                    |
| 5. Design of a Floating Liquefied Natural Gas Production, Storage, and Offloading Facility Offshore of Qatar | Texas A&M                                    |
| 6. CVAR Equipment Deployment and Connection Procedure  | Texas A&M                                    |
| 7. Coupled Floating Production Units (FPSO + FPS) for Deep Water Oil Productions System)                     | University of Sao Paulo                      |
| 8. Subsea Production System for Gas Field Offshore Brazil  | Federal University of Rio de Janeiro         |
| 9. Preliminary Design of a Floating Offshore Production Unit   | Khajeh Nasir Toosi University (Tehran, Iran) |
| 10. in the Caspian Sea   |  |
| 11. Escort Tug - Design Study of a Tug for Escort Services in the Barents Sea                                | University of British Columbia               |
| 12. MV "Magnet"  | University of New Orleans                    |
| 13. ULTRADEEP Truss SPAR   | University of Michigan                       |

#### **ISWSCYDC**

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|---------------------------------------|--------------------------------|
| 1. USSS VARUNA – 115’ Patrol Boat     | University of New Orleans      |
| 2. 54’ Diesel-electric Sailing Yacht  | University of New Orleans      |
| 3. 105’ Escort Tug                    | University of New Orleans      |
| 4. 50-70’ Dive Team Search and Rescue | University of British Columbia |
| 5. Transpac 52 Box Rule Sailing Yacht | University of Michigan         |
| 6. VOLVO Open 70 Offshore Racer       | University of Michigan         |
| 7. 175-1865’ Catamaran Luxury Yacht   | State University of New York   |

#### **MISCSDC**

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|---|------------------------------|
| 1. Short Sea RO-RO Design for Norfolk to New London Trailer Service | University of Michigan       |
| 2. Title Unknown  | State University of New York |