



Marine & Ocean Information Brief

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ICNAME Founding Members News

HEU Shipbuilding College's Wave Self-Powered Technology Published in Nano Energy

A fluid mechanics research team from the College of Shipbuilding Engineering at Harbin Engineering University has reported a breakthrough in ocean-wave energy harvesting. The team developed a helical-rod-driven cylindrical triboelectric nanogenerator that can efficiently collect ultra-low-frequency and low-steepness wave energy. Inspired by the lifting mechanism of a “bamboo dragonfly,” the device converts wave-induced reciprocating motion into continuous one-way rotation, enabling a single low-frequency excitation to sustain power generation for 12 seconds. In sea trials in Sanya Bay, the device lit 532 high-brightness LEDs and powered a temperature-humidity monitoring module, showing potential for ocean observation, marine environmental monitoring, deep-sea early warning and low-power marine sensor networks.

Source: Harbin Engineering University News / College of Shipbuilding Engineering
Link: <https://news.hrbeu.edu.cn/info/1141/88988.htm>

HEU Leadership Visits CSSC Liaohai Equipment and Shenyang Institute of Automation to Deepen Cooperation in Marine Equipment and Underwater Robotics

On June 17, Yin Jingwei, President of Harbin Engineering University, led a delegation to CSSC Liaohai Equipment Co., Ltd. and the Shenyang Institute of Automation, Chinese Academy of Sciences. At Liaohai Equipment, the two sides discussed key technology breakthroughs, major project collaboration, joint talent training and research-platform development, with a focus on supporting China's maritime-power strategy and the high-quality development of the shipbuilding industry. At the Shenyang Institute of Automation, the delegation visited underwater-robot R&D and manufacturing facilities and learned about deep-sea exploration equipment, autonomous-operation systems, intelligent manufacturing and advanced sensing technologies.

Source: Harbin Engineering University News / Research Institute
Link: <https://news.hrbeu.edu.cn/info/1141/88996.htm>

HEU and Harbin Welding Institute Establish Joint Research Institute for Advanced Materials and Intelligent Welding

Harbin Engineering University and the Harbin Welding Institute under China Academy of Machinery Science and Technology Group signed a strategic cooperation agreement and established the Harbin Welding Institute–HEU Joint Research Institute for Advanced Materials and Intelligent Welding. The two sides will focus on high-end welding materials, intelligent welding equipment, major R&D projects, collaborative technology breakthroughs and high-level engineering talent training. The cooperation is expected to support the development of advanced welding technologies for ship and ocean equipment.

Source: Harbin Engineering University News

Link: <https://news.hrbeu.edu.cn/info/1141/88989.htm>

CCS and Shanghai Jiao Tong University Sign Cooperation Plan for Ship and Ocean Engineering Innovation

China Classification Society and Shanghai Jiao Tong University signed a cooperation plan to jointly advance education, science and technology, and talent development. The two sides will deepen cooperation in frontier scientific research, intelligent and digital transformation of ships, marine new energy, green low-carbon power and joint talent cultivation. The cooperation aims to build a talent hub and innovation source for China's ship and ocean engineering field, improve technical standards and research capabilities, and strengthen China's influence in international maritime standards.

Source: China Classification Society

Link: <https://www.ccs.org.cn/ccswz/articleDetail?id=202606180966016384>

CSSC and China First Heavy Industries Discuss Deeper Cooperation in Key Technologies and New Materials

On June 17, Xu Peng, Party Secretary and Chairman of China State Shipbuilding Corporation, met with Lü Zhiqiang, Party Secretary and Chairman of China First Heavy Industries, at CSSC headquarters. The two sides discussed serving national strategic needs, strengthening the role of state-owned enterprises, accelerating the development of new quality productive forces and deepening strategic cooperation. They agreed to expand collaboration in key technology innovation, product application, technology transfer and new materials R&D, with the aim of supporting high-end shipbuilding and

offshore engineering equipment development.

Source: China State Shipbuilding Corporation / CSSC News and Publicity Center / China Ship News

Link: <https://www.cssc.net.cn/n5/n19/c33827/content.html>

CCS Harbin Branch Promotes Water Safety Education in Schools

China Classification Society Harbin Branch, together with local maritime, emergency-management and education authorities, carried out a water-safety education activity at Tongjiang No. 5 Primary School. The program introduced students to water-transport safety, passenger-ship safety, drowning prevention, self-rescue and the correct use of lifejackets and lifebuoys. The activity aimed to raise young students' awareness of water safety and support broader maritime safety education.

Source: China Classification Society

Link: <https://www.ccs.org.cn/ccswz/articleDetail?id=202606180973994684>

Other Maritime and Ocean Engineering News

Domestic Polar-Grade Ship Steel Developed After Joint Research Effort

China has made progress in the development of domestic polar-grade ship steel. According to Xinhua, the China Polar Research Center and China Classification Society worked with Chinese steelmakers for more than two years to develop high-strength steel suitable for polar ships. A Baosteel product became the first of its kind to receive CCS certification. The steel is designed to maintain toughness at temperatures as low as minus 60°C and withstand repeated ice impacts, supporting future polar ships and icebreaking vessels. The R&D process also involved CSSC's 708th Research Institute, CSSC's 725th Research Institute, Jiangnan Shipyard and Shanghai Maritime University.

Source: Xinhua News Agency

Link:

<https://www.xinhuanet.com/politics/20260617/61fe8a83c3cc4019ab9257adb0dcaee4/c.html>

Sallaum Lines Orders Two Next-Generation 8,600-CEU Car Carriers

Sallaum Lines signed a shipbuilding contract with Xiamen Shipbuilding Industry for two firm and two optional next-generation pure car and truck carriers. Each vessel will have a capacity of 8,600 CEU, making them the largest ships ever commissioned by Sallaum Lines. The vessels will feature dual-fuel engines capable of operating on LNG, VLSFO and MGO, and will be ammonia-ready. The newbuildings are designed to support the company's fleet-expansion strategy and align with international decarbonization goals.

Source: The Maritime Executive

Link: <https://maritime-executive.com/corporate/sallaum-lines-orders-two-next-generation-8-600-ceu-car-carriers>

Norway Accelerates Hydrogen-Powered Bulk Carrier Project for Short-Sea Shipping

Norway is accelerating the development of hydrogen-powered short-sea bulk carriers. LH2 Shipping received additional support from Enova to build two more liquid-hydrogen-powered bulk carriers, expanding its planned fleet to six vessels. The design features a 7,700-dwt vessel equipped with a liquid hydrogen tank, PEM fuel cells, battery storage and shore-power capability. The project is intended to demonstrate the

feasibility of hydrogen propulsion for commercial short-sea shipping.

Source: The Maritime Executive

Link: <https://maritime-executive.com/article/norway-accelerates-hydrogen-power-bulker-project-for-shortsea-shipping>

Korean Partners Develop Robotic “Total Hull Care Solution”

HD Hyundai Heavy Industries, KCC and TAS Global signed a memorandum of understanding to develop a robot- and data-based integrated hull-management solution. The system aims to automate hull diagnosis, underwater cleaning, paint-damage inspection and performance verification. By reducing biofouling and improving hull condition monitoring, the solution is expected to improve fuel efficiency and reduce ship emissions. The project combines shipbuilding, coating and robotic technologies for next-generation vessel maintenance.

Source: MarineLink

Link: <https://www.marinelink.com/news/korean-partners-develop-robotic-total-540428>

Chinese Licensees Expand J-ENG Marine Engine Manufacturing Capacity

Japan Engine Corporation reported that its Chinese licensees, Guangzhou Diesel Engine Factory and Zhejiang Yungpu Diesel Engine, are expanding their UE marine engine manufacturing capacity. The expansion responds to strong engine demand driven by China’s growing shipbuilding market. Guangzhou Diesel Engine Factory is operating a new factory in Guangzhou and expanding its Jingjiang facilities, while Zhejiang Yungpu Diesel Engine is upgrading and expanding its production lines. The developments indicate continued growth in China’s marine-engine supply chain.

Source: MarineLink

Link: <https://www.marinelink.com/news/chinese-licensees-expand-jeng-engine-540427>

BP Awards Subsea Decommissioning and Recycling Contract to DeepOcean

BP awarded DeepOcean a subsea decommissioning and recycling contract for equipment from the former FPSO at the Foinaven field, west of Shetland on the UK Continental Shelf. The scope includes removing flexible process risers, dynamic subsea umbilicals, a static umbilical and associated subsea equipment. The project reflects continued demand for specialized offshore decommissioning, subsea recovery and

recycling services as mature offshore fields reach the end of production.

Source: Offshore Energy

Link: <https://www.offshore-energy.biz/bp-entrusts-subsea-decom-and-recycling-job-at-uk-field-to-deepocean/>

EConnect to Provide Jettyless LNG Transfer Solution for Colombia's New LNG Terminal

EConnect Energy will deliver its IQuay F-Class jettyless transfer system for Puerto Bahía's LNG import terminal in Cartagena Bay, Colombia. The system will be used together with a floating storage and regasification unit and is expected to support the fast-track development of Colombia's second LNG import terminal on the Caribbean coast. The jettyless system allows LNG imports without additional jetty construction, reducing offshore construction requirements and marine intervention.

Source: Offshore Energy

Link: <https://www.offshore-energy.biz/econnect-tasked-with-jettyless-transfer-solution-for-colombias-new-lng-terminal/>

CSSC's Guangzhou Shipyard International and Guangdong Partner Establish New Ship Company

A new ship-related company, CSSC Port & Shipping (Guangdong) Ship Co., Ltd., was established with registered capital of RMB 588 million. Its business scope includes general component manufacturing, sales of fiber-reinforced plastic products, international maritime freight forwarding, and manufacturing of high-performance fibers and composite materials. Shareholding information shows that the company is jointly held by CSSC's Guangzhou Shipyard International and Guangdong New China Shipyard.

Source: Guandian / Qichacha Data

Link: <https://www.guandian.cn/article/20260617/567852.html>