

2026 未来海洋国际产学研用合作会议

(青岛)

2026 Future Ocean International Conference on the Cooperation and
Integration of Industry, Education, Research and Application (Qingdao)

会议手册 Conference Brochure



中国 · 青岛

Qingdao · China

2026 年 10 月 23-24 日

October 23rd-24th, 2026

开幕式议程

Agenda of Opening Ceremony

时间：2026 年 10 月 23 日 星期五 上午 9:00

Time: 9 am, Friday, October 23rd, 2026

会场：中国海洋大学学术交流中心 三楼多功能厅

Venue: Multi-functional Hall (Third Floor), Academic Exchange Center, Ocean University of China

线上途径（腾讯会议）

Online Meeting Link: <https://meeting.tencent.com/dm/W7ZDGsrCfr8A>

Meeting ID: 683-372-595

主持人：陈朝晖（中国海洋大学）

Host: **Zhaohui Chen** (Ocean University of China)

Time	Item
09:00-09:30	1. 观看宣传片《蓝色华章》 Promotion Video For Ocean 2. 致辞 Speech 3. 合影 Group Photo
09:30-10:10	主旨报告 Plenary Speech 1 Speaker: Xiaojun Yuan (Columbia University) Title: Multidecadal Changes in the Tropics Drive Predictability of Antarctic Sea Ice
Break	
10:30-11:10	主旨报告 Plenary Speech 2 Speaker: Alyssa Marshall (University of Tasmania) Title: Harnessing AI and Machine Learning to Support Sustainable Wild Fisheries in Tasmania, Australia
11:10-11:50	主旨报告 Plenary Speech 3 Speaker: Hans Burchard (Leibniz Institute for Baltic Sea Research Warnemünde) Title: Estuarine Mixing

分会场 1：物理海洋与海洋信息技术

Physical Oceanography and Marine Information Technology Forum

主题：极地海洋与全球变化

Theme: Polar Ocean and Global Change

October 23rd Friday Afternoon

专题报告：海洋冰冻圈的观测与模拟

Session: Observation and Modelling of Marine Cryosphere

Venue: Academic Hall 2 (学术报告厅 2)

Host: **Jie Su 苏洁** (Ocean University of China)

Mingfeng Wang 王明锋 (Ocean University of China)

Time	Item
13:00-13:15	Speaker: Xiangshan Tian-Kunze (Alfred Wegener Institute) Title: Long-term observations of sea ice thickness from SMOS and CryoSat-2 in the Arctic and Antarctic
13:15-13:30	Speaker: Iuliia Radchenko (Nansen International Environmental and Remote Sensing Centre) Title: Robust model selection for Arctic sea ice: Reducing uncertainty in CMIP6 projections
13:30-13:45	Speaker: Paul Spence (University of Tasmania) Title: Interannual variability of ocean heat content in the eastern Amundsen Sea controlled by wind

13:45-14:00	Speaker: Bin Cheng (Finnish Meteorological Institute) Title: Snow and ice thermodynamics in the changing climate: Modelling and observation
14:00-14:15	Speaker: Zhaoru Zhang (Shanghai Jiao Tong University) Title: Impacts of Ocean–Ice shelf Interactions on Dense Shelf Water Formation in the Ross Sea
14:15-14:30	Speaker: Shiming Xu (Tsinghua University) Title: Improving physical modelling of CryoSat-2 radar waveforms over sea ice using meter-scale topography
14:30-14:45	Speaker: Yibin Ren (Institute of Oceanology, Chinese Academy of Sciences) Title: Optimizing the spring predictability barrier in Arctic sea-ice prediction using artificial intelligence
14:45-15:00	Speaker: Lijuan Lu (Guangzhou Institute of Geochemistry, Chinese Academy of Sciences) Title: Southern Ocean response to intensified Southern Hemisphere westerlies during the Last Interglacial
Break	
15:15-15:30	Speaker: Gunnar Spreen (University of Bremen) Title: Variability and changes in Antarctic snow depth from satellite microwave radiometer observations 2002–2025 (Online)
15:30-15:45	Speaker: Xi Zhao (Sun Yat-sen University) Title: Unexpected return of late-summer sea ice in the Pacific Arctic
15:45-16:00	Speaker: Mingkun Liu (Ocean University of China) Title: Microwave sea surface temperature retrieval in the Arctic marginal ice zone based on a hybrid physical-deep learning model

专题报告：极地海洋生物地球化学循环及其生态环境效应机制

Session: Polar Marine Biogeochemical Cycles and Their Ecological and Environmental Effects

Venue: Academic Hall 2 (学术报告厅 2)

Host: **Xiaotong Xiao 肖晓彤** (Ocean University of China)

Yantao Liang 梁彦韬 (Ocean University of China)

16:00-16:15	Speaker: SeungIl Nam (Korea Polar Research Institute) Title: Into the Blue (i2B): Insights from past climates analogous to today's Arctic warming— Preliminary results of the 2026 <i>R/V Kronprins Haakon</i> Arctic Expedition
16:15-16:30	Speaker: Ding He (The Hong Kong University of Science and Technology) Title: Molecular fingerprints of oceanic refractory organic carbon: Polarity, isomerism, and terrestrial sources
16:30-16:45	Speaker: Wee Cheah (University of Malaya) Title: Photophysiological and optical signatures of phytoplankton across Southern Ocean fronts
16:45-17:00	Speaker: Kazuhiro Yoshida (Saga University) Title: Freezing and melting stress on the photophysiology of ice algae: <i>ex situ</i> incubation of ice algae using an ice tank
17:00-17:15	Speaker: Meiaoxue Han (First Institute of Oceanography, MNR) Title: Light reshapes DNA virus-host interactions in Antarctic sea ice

October 24th Saturday Morning

专题报告：极地海洋动力过程及其气候效应

Session: Polar Ocean Dynamic Processes and Their Climate Effects

Venue: Beijing Hall (北京厅)

Host: **Wenli Zhong 钟文理** (Ocean University of China)

Qiuxian Li 李秋娴 (Ocean University of China)

Time	Item
08:30-08:45	Speaker: Camille Hankel (University of Washington) Title: Arctic sea ice meltwater as a forcing and feedback on the Atlantic Meridional Overturning Circulation (Online)
08:45-09:00	Speaker: Yushan Qu (University of New South Wales) Title: Future responses of mesoscale eddy activity in subantarctic mode water formation regions (Online)
09:00-09:15	Speaker: Igor Bashmachnikov (St. Petersburg State University) Title: Mesoscale and submesoscale eddies in the marginal ice zone of Arctic seas
09:15-09:30	Speaker: Qi Shu (First Institute of Oceanography, MNR) Title: Dynamical downscaling simulations and future projections of the Arctic Ocean
09:30-09:45	Speaker: Dapeng Li (Ocean University of China) Title: High-latitude Southern Ocean warming hotspot induced by ocean mesoscale eddies
09:45-10:00	Speaker: Wandi Jing (Ocean University of China) Title: Upper ocean salinity variability and impact in the Southeast Indian Subantarctic Mode Water formation region during the Argo era
Break	

专题报告：极地-热带相互作用 Session: Polar-Tropical Interactions <u>Venue: Beijing Hall (北京厅)</u> Host: Fei Huang 黄 菲 (Ocean University of China) Jian Shi 石 剑 (Ocean University of China)	
10:15-10:30	Speaker: Yunhe Wang (Institute of Oceanology, Chinese Academy of Sciences) Qinghua Ding (UC Santa Barbara) Title: Multiyear tropical warm pool warming drives slowdown in Antarctic mass loss (Online)
10:30-10:45	Speaker: Emilia Kyung Jin (Korea Polar Research Institute) Title: Climate forcing and Antarctic cryospheric response: From shifting drivers to future glacier instability
10:45-11:00	Speaker: Xichen Li (Peking University) Title: Interaction between Southern Ocean and lower latitudes
11:00-11:15	Speaker: Dasom Lee (Korea Polar Research Institute) Title: Strengthened causal influence of Antarctic sea ice on East Asian summer precipitation following the mid-2010s sea-ice regime shift
11:15-11:30	Speaker: Xiaoming Hu (Sun Yat-sen University) Title: Geographic origins of asymmetric polar amplification
11:30-11:45	Speaker: Qiuxian Li (Ocean University of China) Title: Revisiting the role of ocean circulation changes in polar ocean heat transport anomalies under global warming

分会场 2：水产资源开发与保护

Aquatic Resources Development and Conservation Forum

October 23rd Friday Afternoon

Fisheries Academic Forum

Venue: Multi-functional Hall (多功能厅)	
Host: Zhishuai Hou 侯志帅 (Ocean University of China)	
Time	Item
14:00-14:30	Speaker: Ximing Guo (Rutgers University) Title: Oyster Genetics and Aquaculture
14:30-15:00	Speaker: Culum Brown (Macquarie University) Title: Overfishing Social Fish
15:00-15:30	Speaker: Xueyan Shen (James Cook University, Singapore Campus) Title: Optimizing Feeds for Singaporean Red Snapper Aquaculture
Break	
15:45-16:15	Speaker: Li Li (Ocean University of China) Title: Managing Nitrogen in Aquaculture Systems: Inorganic Nitrogen Control and Nitrous Oxide Mitigation
16:15-16:45	Speaker: Roongparit Jongjaraunsuk (Kasetsart University) Title: AI for Smart and Sustainable Aquaculture: Applications in Fish Growth Monitoring and Water Quality
16:45-17:15	Speaker: Sandra Freiburger Affonso (Federal University of ABC) Title: The Ocean Connects Us All: Science, Education and Teamwork from the Poles to the Tropics

Online Meeting Link: <https://meeting.tencent.com/dm/pLMPUVIIBeBH>

Meeting ID: 999-937-064

October 23rd Friday Afternoon
Fisheries Industry Forum

<u>Venue: Sunshine Hall (阳光大厅)</u> Host: Min Wan 万敏 (Ocean University of China)	
Time	Item
13:30-13:35	Speech: Al Qinghui (Dean, College of Fisheries, OUC)
13:35-14:00	Award Appointment Certificate for Adjunct Postgraduate Supervisor
14:00-15:30	Industry Expert Reports
Break	
Industry Salon Host: Liuyi Huang 黄六一 (Ocean University of China)	
15:45-17:00	Exchange and Discussion

Online Meeting Link: <https://meeting.tencent.com/dm/TuQl7M3jegjO>

Meeting ID: 913-421-564

October 24th Saturday Morning
Fisheries Academic Forum

Venue: <u>Sunshine Hall (阳光大厅)</u>	
Host: Chunlong Liu 刘春龙 (Ocean University of China)	
Time	Item
9:00-9:30	Speaker: Ivan Jarić (Université Paris-Saclay) Title: Harnessing Online Digital Data for Research and Management of Fisheries and Aquatic Resources
9:30-10:00	Speaker: Chunwei Bi (Ocean University of China) Title: Theory and Technology for Safety Design of Deeper-offshore Aquaculture Facilities
10:00-10:30	Speaker: Aaron Irving (Seafood New Zealand) Title: Fishing in the Deep: New Zealand Deepwater Fisheries
Break	
10:45-11:15	Speaker: Hogeun Jang (Pukyong National University) Title: Integrating Remote Sensing and Climate Thresholds into Seaweed Aquaculture Governance
11:15-11:45	Speaker: Lianhui Wu (Tokyo University of Marine Science and Technology) Title: From Coastal Uplift to Fishing Port Recovery: Remote Sensing and Field Observations after the 2024 Noto Peninsula Earthquake

Online Meeting Link: <https://meeting.tencent.com/dm/sVIFc60DWJaZ>

Meeting ID: 376-548-832

October 24th Saturday Morning Fisheries Postgraduate Forum

Venue: Academic Hall 1 (学术报告厅 1)	
Host: Huiru Li 李惠茹 (Ocean University of China)	
Time	Item
8:30-8:45	Speaker: Lang Guo (Ocean University of China) Title: Exploring Key Developmental Processes and Transcriptional Regulatory Mechanisms of Sex Determination and Differentiation in the Pacific Oyster (<i>Crassostrea gigas</i>)
8:45-9:00	Speaker: Xinlin Yang (Ocean University of China) Title: Insights into Pregnancy Maintenance in the Viviparous Teleost <i>Sebastes schlegelii</i>
9:00-9:15	Speaker: Sonthaya Phuynoi (Kasetsart University) Title: The Caudal Gland of <i>Sepiella inermis</i> : Integrated Nutritional, Antimicrobial, and Transcriptomic Evidence for a Specialized Bioactive Defense Organ
9:15-9:30	Speaker: Hao Xu (Ocean University of China) Title: Cathelicidin Antimicrobial Peptides Contribute to Host Defense of Juvenile Rainbow Trout (<i>Oncorhynchus mykiss</i>) against <i>Vibrio anguillarum</i>
9:30-9:45	Speaker: Pawida Prasopsook (Kasetsart University) Title: The Octopus Bank as a Model for Marine Resource Conservation: Hatchery Production, Release into the Wild, and Monitoring Using Genetic Markers
9:45-10:00	Speaker: Xingchen Jiang (Ocean University of China) Title: MARCH8 Restricts Hirame Novirhabdovirus Through NDP52-Associated Autophagic Turnover of the Nucleoprotein
Break	

10:15-10:30	Speaker: Yaobing Li (Ocean University of China) Title: Mechanisms of Intestinal Sensing-induced Cell Death in <i>Litopenaeus vannamei</i> under Ammonia-N Stress
10:30-10:45	Speaker: Ning Zhang (Ocean University of China) Title: Metabolomic Profiling Reveals That the Heterogeneity of Microhabitats Can Assist Intertidal Snails in Surviving Extreme Temperature Events
10:45-11:00	Speaker: Huachen Liu (Ocean University of China) Title: Molecular and Functional Characterization of the SK/CCK-Type Neuropeptide Signaling System in <i>Apostichopus japonicus</i>
11:00-11:15	Speaker: Yuanyuan Li (Ocean University of China) Title: Brief Introduction of a Global Database of Useful Fishes
11:15-11:30	Speaker: Chunmei Liu (Ocean University of China) Title: Biochar Reshapes Sulfur Cycling in Sulfur Autotrophic Denitrification: Trade-Offs between Nitrogen Removal and Sulfide Control across Dissolved Oxygen Levels
11:30-11:45	Speaker: Dongdong Xiao (Ocean University of China) Title: Physiological and Molecular Adaptations to Air Exposure and Aquatic Recovery in Mudskippers
11:45-12:00	Award Certificate for Presentation

Online Meeting Link: <https://meeting.tencent.com/dm/zUotQ0ZkNWGD>

Meeting ID: 540-207-990

分会场 3：环境污染控制与生态保护

Environmental Pollution Control and Ecological Protection Forum

October 23rd Friday Afternoon

Venue: Beijing Hall (北京厅)	
Host: Tao Wang 王涛 (Ocean University of China)	
Time	Item
14:00-14:20	Speaker: Changming Dong (Nanjing University of Information Science and Technology) Title: A Universal Curl-vorticity Relation for Wind Work on Mesoscale Ocean Eddies
14:20-14:40	Speaker: Wensheng Jiang (Ocean University of China) Title: Coupled Modeling of Storm Surge Inundation and Urban Drainage Networks with Applications
14:40-15:00	Speaker: Hui Wu (East China Normal University) Title: Numerical Skewness in Ocean Models
15:00-15:20	Speaker: Zhaoyun Chen (Shantou University) Title: Dynamical Interactions between Upwelling and River Plume off Eastern Guangdong Coast
Break	
15:40-16:00	Speaker: Peng Zhan (Southern University of Science and Technology) Title: Submesoscale Vertical Heat Flux Amplifies a Cross-Scale Positive Feedback
16:00-16:20	Speaker: Jian Shi (Ocean University of China) Title: Impacts of the Northeast Pacific warm Blob on ENSO: Physical mechanisms and decadal Variability
16:20-16:40	Speaker: Zikuan Lin (Ocean University of China) Title: Latent Space-Based Data Assimilation and Parameter Estimation in Earth System Models

中国海洋大学简介

中国海洋大学，是一所学科门类齐全、海洋和水产学科特色显著的教育部直属重点综合性大学，是国家“211工程”“985工程”和“双一流”重点建设高校。学校由教育部、自然资源部、山东省人民政府和青岛市人民政府共建。学校的发展目标是：到2030年，建成世界一流的综合性海洋大学；到本世纪中叶，建成特色显著的世界一流大学。

2022年4月10日，习近平总书记视察学校三亚海洋研究院，强调：“建设海洋强国是实现中华民族伟大复兴的重大战略任务。要推动海洋科技实现高水平自立自强，加强原创性、引领性科技攻关。”2024年10月24日，在学校建校100周年之际，习近平总书记给学校全体师生回信，希望学校“以建校百年为新起点，以科技发展、国家战略需求为牵引，完善学科设置调整机制和人才培养模式，加强原创性、引领性海洋科技攻关，努力培养更多胸怀蓝色梦想、堪当时代重任的优秀海洋人才，为建设教育强国、海洋强国作出更大贡献”。习近平总书记的重要讲话和重要回信为学校发展指明了前进方向，提供了根本遵循，注入了强大动力。

学校创建于1924年，历经私立青岛大学、国立青岛大学、国立山东大学、山东大学等几个办学时期，1959年更名为山东海洋学院，1988年更名为青岛海洋大学，2002年更名为中国海洋大学。学校秉承“教授高深学术，养成硕学宏材，应国家需要”的创校宗旨，秉持“海纳百川，取则行远”的校训，弘扬“勇立潮头，谋海济国”的海大精神，传承红色基因、执着蓝色梦想，走出了一条“特色立校、科学发展、树人立新、谋海济国”的内涵式发展道路。

学校始终走在国家高等教育前列，1960年被中共中央确定为全国13所重点综合大学之一，1981年成为我国首批博士和硕士学位授予单位。学校现有4个校区，其中，崂山校区、鱼山校区和浮山校区共占地2400余亩；西海岸校区规划占地约2800亩，一期工程于2022年建成启用。现辖1个学部、21个学院和1个基础教学中心。在校生39000余人，其中本科生19090余人、硕士研究生15210余人、博士研究生4480余人、外国留学生290余人。现有教职工4380余人，其中，全职两院院士8人，国家级人才190余人次，省部级以上人才760余人次，连续四届入选全国高校黄大年式教师团队，形成了25个国家级创新团队，打造了世界重要的海洋人才高地。

学校坚守为党育人、为国育才初心使命，全面落实立德树人根本任务，着力打造人才培养的海大模式，大力培养胸怀蓝色梦想、堪当时代重任的优秀海洋人才，为强国建设、民族复兴伟业提供坚实人才支撑。在培养的38万余优秀人才中，涌现出以

17 位海洋领域的两院院士、4 任国家海洋局局长为代表的一大批海洋科技领军人才和管理骨干，在“神舟”飞天、“嫦娥”奔月、“蛟龙”探海、极地科考、巡洋护航、守礁戍边、耕海牧渔、架桥通隧等各战线各领域，都活跃着中国海大人的身影，他们为推动社会发展、增进人民福祉贡献力量，也为母校赢得广泛赞誉。

学校坚持科技高水平自立自强，着力打造海洋领域国家战略科技力量。牵头筹建的崂山实验室于 2022 年挂牌成立，构建高校-国家实验室融合发展体系。主持建设我国地球科学领域首个教育部前沿科学中心（深海圈层与地球系统前沿科学中心），主持海洋领域首个国家自然科学基金委卓越研究群体项目（多场多体多尺度耦合及其对海工装备性能与安全的影响机制）。建有全国重点实验室、国家工程技术研究中心等省部级以上各类科研基地平台 50 余个。拥有全球最高静音等级 5600 吨综合科考实习船“东方红 3”船等 3 艘科学考察实习船舶。提出了“透明海洋”“蓝色粮仓”“蓝色药库”等重大科技战略。主持获得国家技术发明一等奖 1 项、二等奖 4 项，自然科学二等奖 2 项，科技进步二等奖 12 项；4 次获山东省科学技术最高奖，7 次获青岛市科学技术最高奖。

学校坚持开放办学，是全球海洋科教交流合作的重要推动者。与 50 多个国家和地区的 300 余家科教机构建立合作关系，与澳大利亚阿德莱德大学共建中外合作办学机构海德学院，与英、澳等国家的高水平院校合作举办中外合作办学项目、共建联合研究中心。牵头发起成立国际涉海大学联盟、中国-挪威海洋大学联盟，承办全球气候领域重要国际组织“气候变率及可预测性组织”（CLIVAR）项目办公室，承接国际南极学院秘书处，牵头“第二次黑潮及周边海域国际合作研究”等国际大科学计划。牵头联合全球主要涉海科教机构及国际学术组织，发布《未来海洋青岛共识》。

面向百年跨越，中国海洋大学将坚持以习近平新时代中国特色社会主义思想为指导，深入学习贯彻习近平总书记关于教育和建设海洋强国的重要论述，全面贯彻落实习近平总书记视察学校三亚海洋研究院重要讲话和给学校全体师生重要回信精神，牢记嘱托、勇担使命，感恩奋进、勇攀高峰，坚持中国特色、海大范式、世界一流，着力实施新时代海大工程，推进新时代蓝色梦想计划，打造新时代海大范式，加快建设特色显著的世界一流大学，奋力书写“强国建设，海大有为”的时代答卷，为以中国式现代化全面推进强国建设、民族复兴伟业作出新的更大贡献！

(<http://www.ouc.edu.cn/31000/list.htm>)

About OUC

Ocean University of China (OUC) is a key comprehensive university under direct administration of the Chinese Ministry of Education (MOE), with a complete range of academic and research programs, and distinctive strengths in marine science and fisheries. We are part of the country's Project 211 and Project 985. Since 2017, we have been included in China's plan of building world-class universities. Upholding our motto "ocean embraces all streams; exploring promises reaching far", we aim at becoming a world-class comprehensive university with a strong emphasis on ocean sciences by 2030, and a world-class university with distinctive characteristics by the middle of this century.

Founded in 1924, the university has undergone various periods of development under different names, including Private Qingdao University, National Qingdao University, National Shandong University, and Shandong University. In 1959, it became Shandong Oceanographic College. It was renamed Qingdao Ocean University in 1988 and Ocean University of China in 2002.

We have four campuses. Laoshan, Yushan, and Fushan campuses cover a total of 160 hectares. The West Coast Campus is planned to cover around 187 hectares. In 2022, its first phase of construction was completed and put into use. We have 1 faculty, 20 colleges/schools, and a Teaching Center of Fundamental Courses. Currently, there are 36,500 students enrolled, including 17,720 undergraduate students, 14,730 master's students, 3,790 doctoral students, and 320 international students. We have 4,220 faculty and staff members.

We have established a comprehensive system of marine-oriented disciplines with distinctive Chinese characteristics, fostering the integration and mutual support of academic clusters in marine science and technology, life sciences and technology, engineering, humanities and social sciences, and fundamental sciences.

We are deeply committed to cultivating outstanding talent with a strong commitment to the marine field. Among our 370,000 proud graduates, a significant number have emerged as leading figures in marine science and technology and administrative leadership—represented by 16 academicians of the Chinese Academy of Sciences or the Chinese Academy of Engineering, and 4 directors of the State Oceanic Administration. Our alumni are active across diverse sectors, contributing to social progress and public well-being while earning OUC widespread recognition and acclaim.

We are dedicated to strengthening national strategic capacity in science and technology. We actively supported the building of the Laoshan Laboratory, which was officially inaugurated in 2022, creating an integrated development framework between universities and national laboratories. We spearheaded the establishment of the Frontier Science Center for Deep Ocean Multispheres and Earth System, China's first frontier science center in geosciences under the MOE. We have also led the "Coupled Multi-Field, Multi-Body, Multi-Scale Interactions and Impact Mechanisms on the Performance and Safety of Offshore Engineering Equipment", the first fundamental science center

project in oceanography under the Natural Science Foundation of China.

We host more than 50 provincial/ministerial-level or higher research platforms, including national key laboratories and national engineering technology research centers. We operate three research vessels, represented by Dong Fang Hong 3, a 5,600 DWT vessel with a Silent-R certificate. We have put forward major scientific initiatives such as the “Transparent Ocean”, the “Blue Granary”, and the “Blue Drug Storage”. We have led projects that won 1 First Prize and 3 Second Prizes for National Technological Invention, 2 Second Prizes for National Natural Science, and 12 Second Prizes for National Science and Technology Progress. We have received the Highest Award for Science and Technology in Shandong Province 4 times and the Highest Award for Science and Technology in Qingdao 6 times.

We have proposed a new theory on the role of oceanic heat transport in driving global climate change, developed a dynamic framework for understanding air–sea interactions across the Pacific, Indian, and Atlantic Oceans, and built the world’s largest integrated “sea–land–air–space” regional ocean observation system. We have established the world’s first whole-genome selection breeding platform for aquatic animals, developed a precision nutrition database covering China’s major aquaculture species, and bred a series of new aquaculture varieties. These efforts have spearheaded and driven five waves of development in China’s mariculture industry: kelp, shrimp, scallop, turbot, and sea cucumber and abalone farming. We have also created the world’s largest marine ciliate DNA database, earning the reputation of a “global research hub for marine ciliates”.

We developed and brought to market a series of marine polysaccharide drugs, represented by Propylene glycol sodium alginate sodium sulfate (PSS), China’s first modern marine drug, and co-developed GV-971, a first-in-class drug for the treatment of Alzheimer’s disease, which has been approved for clinical use. We have also addressed a range of technical challenges in ocean engineering design, safe construction, and operation and maintenance, and we have advanced a comprehensive system for ocean engineering safety and disaster prevention technologies.

We remain firmly committed to global engagement, having established partnerships with over 300 universities and research institutes across more than 50 countries and regions. We jointly founded Haide College, a Sino-foreign cooperative education institution, with Adelaide University, and have launched joint education programs and research centers in collaboration with top universities in the United States, the United Kingdom, and other countries. We have led the establishment of the International Alliance of Marine-Related Institutions and China-Norway Marine University Consortium Alliance. We host the International Climate and Ocean: Variability, Predictability and Change (CLIVAR) Project Office and have taken the lead in major international scientific initiatives such as the 2nd Cooperative Study of the Kuroshio and its Adjacent Regions (CSK-2). Together with leading global marine research and educational institutions, we have spearheaded the release of the Qingdao Consensus on Sustainable Development of Future Ocean 2024.

(<http://eweb.ouc.edu.cn/Generalinformation/list.htm>)

