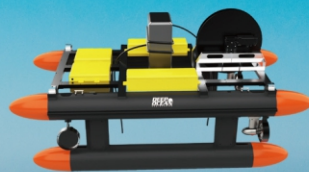




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能创新技术手段引领行业，开发并应用无人直升机航磁系统等全新探测技术，全力构建“远程、无人、遥测、遥感”地球探索新时代，引领行业未来创新增长之路。

目前，劳雷在北京、上海、成都、香港、美国分别设有分公司、代表处、维修中心，已向中国应用地球物理和海洋调查界提供了成千上万套仪器系统，帮助无数用户完成诸多重大国家科学和工程项目。

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电话：(010) 85850099  
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## OT活动指南 Program Guide



2021 国际海洋技术会展 (中国·舟山)  
OceanTech Program (OT 2021)  
Zhoushan, China

浙江大学舟山校区  
Zhoushan Campus, Zhejiang University

2021.5.19-21

[www.oceantech-ap.com](http://www.oceantech-ap.com)

发起单位：浙江大学海洋学院  
Initiated by: Ocean College, Zhejiang University

主办单位：汇展展览有限公司  
Organizer: Together Expo Limited



由中国海洋界发起的综合高新技术会议、展览、海上演示、技术交流、招聘活动的盛事  
A showcase of the latest know-how & live demos conceived and realized by China's ocean community

全国海洋技术大会  
China Ocean Technology Conference

主办单位 Organizer:  
浙江大学海洋学院  
Ocean College, Zhejiang University

#### 协办单位 Co-organizers :

自然资源部第二海洋研究所  
Second Institute of Oceanography, Ministry of Natural Resources  
浙江海洋大学  
Zhejiang Ocean University  
杭州电子科技大学  
Hangzhou Dianzi University  
中共舟山市委人才工作领导小组办公室  
The Office of the Leading Group for Talent Work of the CPC Zhoushan Municipal Committee  
舟山市科学技术局  
Zhoushan Municipal Bureau of Science and Technology  
舟山市科学技术协会  
Zhoushan Science and Technology Association  
汇展展览有限公司  
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中国海洋学会海洋技术装备专业委员会  
Committee of Ocean Technology System (OTS), Chinese Society of Oceanography  
水下技术学会中国分会 (SUT China)  
Society for Underwater Technology China Branch  
IEEE OES Shanghai Chapter  
浙江省海洋学会  
Zhejiang Society of Oceanography  
海洋感知与装备教育部研究中心  
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OT 2021 合作伙伴:  
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发起单位致辞

Greetings from Ocean College , Zhejiang University



各位来宾,女士们, 先生们:

在这个美好的初夏季节, 国内外海洋技术领域的嘉宾汇聚舟山, 共同见证2021国际海洋技术会展隆重召开, 在此我代表浙江大学海洋学院, 向各位嘉宾的莅临表示热烈的欢迎。

2021国际海洋技术会展由浙江大学海洋学院为响应国家“加快建设海洋强国”战略而发起, 由香港汇显展览有限公司主办, 并得到中国海洋界的大力支持。

在汇显公司的组织下, 会展吸引了来自国内外顶尖高校、科研院所和企业的共58家单位展出了各自先进的研究成果和技术装备。汇显公司安排了产品演示、用户培训、专业讲座和海洋人才荟等丰富多彩的活动。与此同时, 浙江大学海洋学院举办了第五届全国海洋技术大会, 学术会议共有大会报告和10个分会场报告, 邀请到了一大批海洋技术领域的顶尖学者以及行业翘楚分享研究成果。我相信本次会展一定能成为科研单位与企业之间重要的交流平台, 为加速提升国家海洋技术装备水平做出新的贡献。

各位来宾, 朋友们! 中国有句古话: 志合者, 不以山海为远。今天, 海洋技术领域的科技界和产业界同仁齐聚海山, 希望各位来宾能够展开充分的交流, 了解海洋技术发展新动态, 建立新资源, 交流新技术。最后, 预祝2021国际海洋技术会展取得圆满成功! 谢谢大家。

浙江大学海洋学院党委书记

王瑞飞  
2021年5月12日



中国海洋学会海洋技术装备专业委员会致辞

Greetings from Committee of Ocean Technology System (OTS),  
Chinese Society for Oceanography



各位来宾:

衷心感谢对2021国际海洋技术会展的信任和支持!

海洋技术与装备研究是我国海洋技术工作的核心组成部分, 肩负着推动海洋技术与装备科技发展、认知海洋自然、保护海洋环境, 促进海洋资源开发与利用的重要使命。

中国海洋学会海洋技术装备专业委员会是全国海洋技术与装备科技工作者和从事海洋技术与装备研究的单位自愿组成成立的学术性、公益性社会团体, 是推动我国海洋技术与装备科学技术事业发展的重要力量。2019年, 我们与汇显展览公司第一次合作, 共同举办2019国际海洋技术会展, 汇集了国内外海洋技术装备厂商和用户, 效果很好, 反响很好。

经过一年的筹备工作, 2021国际海洋技术会展将与第五届全国海洋技术学术会议同期举办, 旨在更加密切地联系产业界, 推动中国海洋技术产业的快速发展, 提升我国海洋技术与装备科研水平和国际影响力。相信在学术界与产业界的联合下, 该系列活动会成为我国海洋技术领域的一大亮点。

最后, 预祝2021国际海洋技术会展圆满成功!

中国海洋学会海洋技术装备专业委员会 主任委员

陈鹰  
2021年5月12日

## 主办单位汇显展览有限公司致辞

## Greetings from the Organizer, Together Expo Limited

各位海洋界的朋友，你们好！

欢迎大家来到浙江大学舟山校区，参加、参观2021国际海洋技术会展（OT 2021），与近千名前来参加第五届全国海洋技术大会的代表共同逐浪舟山，近距离观摩最新的海洋技术与装备的发展！

OT项目是一场由中国海洋界发起的综合高新技术会议、展览、海上演示、技术交流、招聘活动的海洋盛事——本届OT项目真正发挥了作为广集海洋界、促进交流、加强合作的动态平台的功能。

首先浙江大学海洋学院携同13个项目，与18家国家研究所、科研院校共同展示骄人的研发成果，与企业一同激起璀璨浪花，投射中国海洋技术发展的前景！作为OT的主办者，我们非常荣幸能够参与支持催化顶尖技术的工业化及产业化的快速实现！

下一浪，一场“我的海洋梦”分享会，将启动OT海洋人才荟的招聘活动，利用OT 2021的平台，汇集海洋界精英，支援企业及机构成长的人才需求，引领莘莘学子乘风破浪，追逐蓝色事业的梦想！

热烈期盼OT 2021的参展单位成功跨浪，创造无限机遇！

Friends from the ocean world!

Welcome to Zhoushan! And Welcome again for coming to the Ocean College Campus of Zhejiang University to join the OceanTech Program (OT 2021)!

Surf's up! Connect here in Zhoushan with a thousand delegates attending the Fifth China Ocean Technology Conference and witness the latest developments in marine technology!

OT Program showcases the latest know-how & live demos conceived and realized by China's ocean community. Indeed, OT 2021 plays a proactive role as a dynamic platform promoting exchanges, and strengthening cooperation by gathering the marine community.

First, with its 13 projects showcase, Ocean College, Zhejiang University will stage extraordinary R&D accomplishments along with 18 national research institutes and leading scientific research institutions. The impact they wave forth will reverberate in the private sector, transmitting China's marine technology expertise into commercial markets. As the organizer of OT, we are honored to support the drivers to speed up the process to industrialize and commercialize cutting-edge technology!

As a second wave, "My Dream" career sharing workshop will launch the recruitment activities for OceanTech Talent Club. Using the OT 2021 platform, the elites of the ocean industry will be gathered to meet the talent needs to fuel the growth of both the private sectors and research institutions; OceanTech Talent Club will lead students to ride the wind and tide facing, chasing their dream of a blue career!

And finally, we wish everyone a successful time at OT 2021, diving into limitless opportunities!



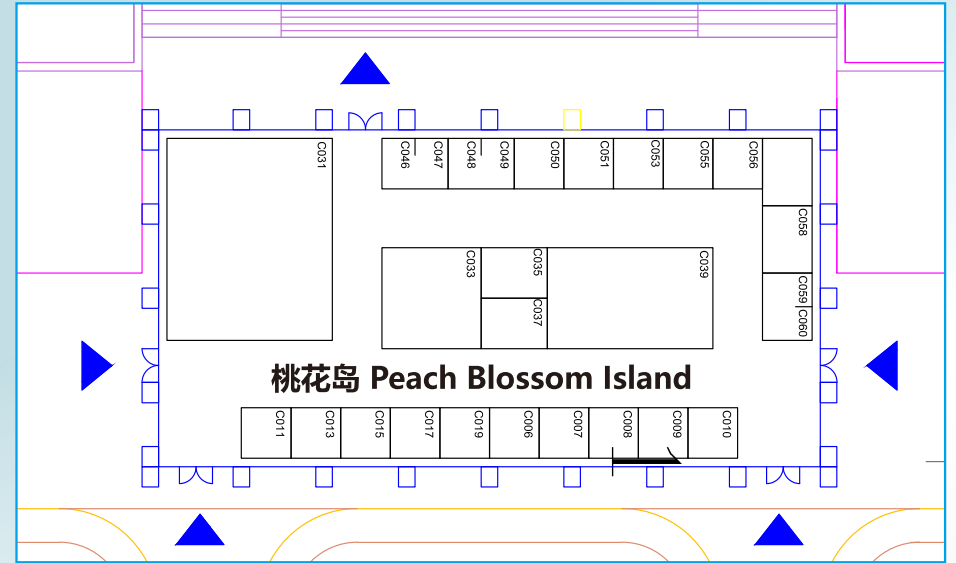
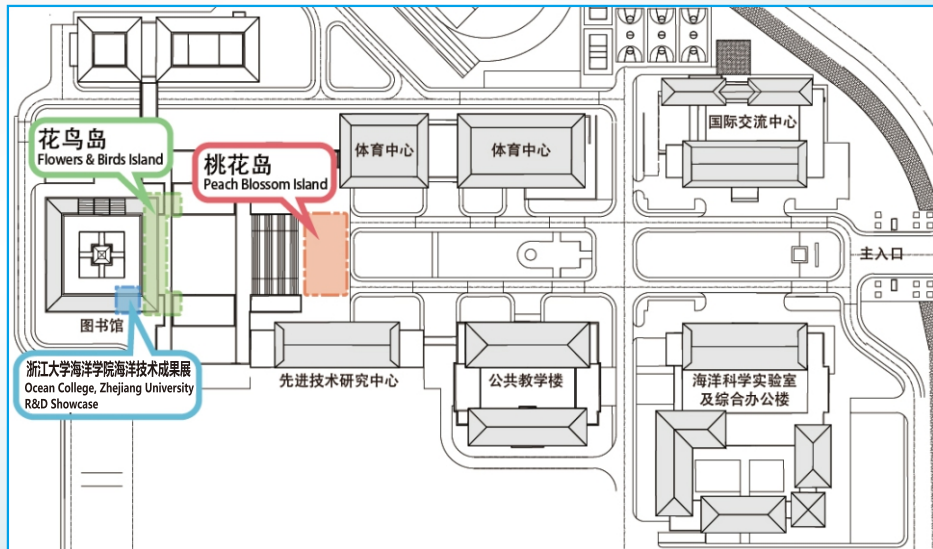
## 展览会及同期活动 OT 2021 Concurrent Program

5.18	
15:30-17:00	OT 海洋人才荟 “我的海洋梦” 分享会 "My dreams" career sharing 地点：智海楼：145室（有线上参会功能） 145 Marine Information Technology Building
17:30-19:30	破冰酒會 Ice Breaking Reception 桃花島展区（大帳篷） Peach Blossom Island (Tent)
5.19	
08:10 - 18:00	大会特邀报告 Main Conference
09:00 - 18:00	展览会 Exhibition
5.20	
08:30 - 18:00	大会分会场（教学楼） Breakout Sessions (Teaching Building)
09:00 - 18:00	展览会 Exhibition
09:30 - 12:00	新一代宽带调频FM地貌系统演示 - 劳雷海洋系统有限公司 Live Demonstration by Laurel Technologies Co Ltd - 新一代宽带调频FM浅地层剖面仪EdgeTech 3400搭载紫金港号，方式是固定安装，需求是借用浙大的紫金港号的多波束安装支架，过程在演示过程中采集地层剖面数据，目的看清海底管线，看透海底地层 - 新一代三频高精度测扫声呐EdgeTech4205搭载紫金港号，方式拖拽。过程在演示过程中采集海底地形地貌数据，目的寻找海底目标。码头附近1公里范围内 注：调查船将在校区的码头附近进行演示，(名额有限！请提前前往劳雷海洋(C039展位)的前台确认登船名额。)
10:00 - 11:00	海底重力的技术报告会 - 劳雷地球物理系统有限公司 Seminar on Remote Operating Gravity Meter - Laurel Geophysical Systems Limited 地点：教学樓224室 VENUE: Rm 224 Teaching Building
13:30 - 17:00	校区实验室参观 Guided tour of lab facilities
15:00 - 16:00	Sonardyne远程演示直播 Sonardyne Remote Live demo/Webinar 地点：教学樓224室 VENUE: Rm 224 Teaching Building
16:30 - 17:30	劳雷海洋应用技术—劳雷海洋系统有限公司 Ocean applications technologies by Laurel Technologies Co Ltd 地点：教学樓224室 VENUE: Rm 224 Teaching Building
5.21	
09:00 - 14:00	展览会 Exhibition

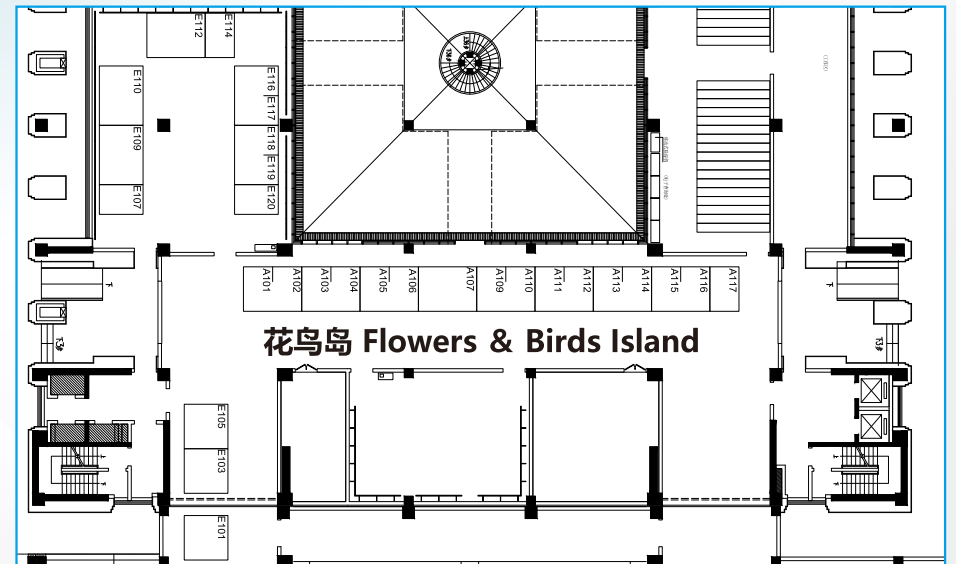
◆以上时间、活动地点，或有改变，请注意现场信息公布。

◆Subject to changes on site.

共同逐浪舟山，近距离观摩最新的海洋技术与装备的发展！  
Surf's up! Connect here in Zhoushan with the ocean world  
witness the latest in marine technology!



帐篷展区  
Exhibits Tent



会议主场比邻展馆  
Main Conference Exhibits Gallery

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**展位: A101**

南方海洋科学与工程广东省实验室(广州)  
Southern Marine Science And Engineering Guangdong  
Laboratory (Guangzhou)  
广州市南沙区南沙街海滨路1119号  
邮政编码: 511458  
1119 Haibin Road, Nansha street, Nansha District,  
Guangzhou  
电邮地址: zhanghanlong@gmlab.ac.cn  
网页: <http://www.gmlab.ac.cn/>  
电话: 020-31953007  
微信号: 15815886410

南方海洋科学与工程广东省实验室(广州)(简称广州海洋实验室)是广州市政府举办的省级科研事业单位,由中国科学院南海生态环境工程创新研究院和广州海洋地质调查局牵头,协同香港科技大学、南方科技大学等优势力量共建,其总部设在广州市南沙区。  
广州海洋实验室以“立足湾区、深耕南海、跨越深蓝”为使命,以实施“海洋强国”战略、发展海洋经济为目标,对标南方海洋国家实验室建设,整合优势海洋领域创新资源,形成国际一流的海洋科技创新基地和粤港澳大湾区海洋科技创新源头。

Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou) (hereinafter referred to as Guangzhou Marine Laboratory) is a provincial public research institution sponsored by the People's Government of Guangzhou Municipality. Guangzhou Marine Laboratory, headquartered in Nansha District of Guangzhou, is co-managed by the Institution of South China Sea Eco-Environmental Engineering under Chinese Academy of Sciences and Guangzhou Marine Geological Survey, and is supported by leading higher institutions such as the Hong Kong University of Science and Technology and Southern University of Science and Technology.

Guangzhou Marine Laboratory is committed to aligning its development with China's endeavors in the Greater Bay Area, South China Sea and cross-sea bridge. Guided by the goals of implementing maritime power strategy and developing marine economy, Guangzhou Marine Laboratory aims to align itself with the development of Southern Marine national laboratories and integrate advantageous innovative resources in the field. It strives to build itself into a world-class marine science and technology innovation base, unleashing fresh impetus that drives marine science and technology innovation in the Guangdong-Hong Kong- Macau Greater Bay Area.

**展位: A102**

南方海洋科学与工程广东省实验室(珠海)  
Southern Marine Science and Engineering Guangdong  
Laboratory (Zhuhai)  
广东省珠海市香洲区唐家湾镇金唐路港湾1号港5栋  
邮政编码: 519080  
Building 5, Harbor No.1, Jintang Road, Xiangzhou,  
Zhuhai, Guangdong, China  
电邮地址: collab@sml-zhuhai.cn  
网页: <https://www.sml-zhuhai.cn/>  
电话: 0756-3923759  
微信号: 南方海洋实验室

南方海洋实验室由珠海市人民政府举办,中山大学牵头建设和管理,陈大可院士担任实验室主任,苏纪兰院士担任学术委员会主任。实验室目标是建设具有国际先进水平的海洋创新基础平台,打造创新型、引领型、突破型的大型综合性海洋研究和应用基地。实验室围绕海洋环境与资源、海洋工程与技术、海洋人文与考古三大研究领域,已布局建设十八个创新团队,并正在大力推进八大公共平台建设。

Southern Marine Laboratory (SML-Zhuhai) was founded by Zhuhai Municipal Government, and managed by Sun Yat-sen University. The laboratory is currently directed by Academician Chen Dake, and its Academic Committee is chaired by Academician Su Jilan.

The SML-Zhuhai aims to become a world-class innovation center for cutting-edge marine science and technology, and a leading institute for integrated oceanographic research and application. The SML-Zhuhai has established 18 research teams in 3 areas, including marine environment and resources, ocean engineering and technology, and marine humanities and archaeology. It is also in the process of building 8 large-scale platforms for research and public service.

**展位: A103**

南方海洋科学与工程广东省实验室(湛江)(简称:湛江湾实验室)  
Southern Marine Science And Engineering Guangdong  
Laboratory (Zhanjiang)  
广东省湛江市霞山区文体路3号  
邮政编码: 524013  
No.3, Wenti Road, Xiashan District, Zhanjiang City,  
Guangdong Province  
电邮地址: zjwlab@163.com  
网页: [www.zjwlab.com](http://www.zjwlab.com)  
电话: 18675987170  
微信号: zjwlab

湛江湾实验室是省委省政府第二批启动建设的广东省实验室之一,2018年11月授牌。主要聚焦海洋装备、海洋能源、海洋生物等三大方向,针对南海渔业资源、海洋绿色能源、深海油气资源、深层水资源等开发利用中面临的科学技术问题,开展应用基础研究与应用技术开发,解决重大科学问题,突破核心技术,目标建成具有国际和国内重大影响力的一流海洋科技创新高地和人才高地,打造国家实验室预备队。

The Southern Marine Science and Engineering Guangdong Laboratory (Zhanjiang) is one of the second batch of Guangdong Province laboratories initiated by the provincial government, which was awarded in November 2018. The laboratory will focus on three major directions, the marine equipment, the marine energy resource and the marine biology. The laboratory carries out applied basic research and applied technology development for the scientific and technological problems faced in the development and utilization of fishery resources, marine green energy, deep-sea oil and gas resources and deep water resources in the South China Sea, solves major scientific problems, breaks through core key technologies, builds a first-class marine science and technology innovation highland and talent with international and domestic major influence highlands, to create a national laboratory reserve.

## 展位: A104

中共舟山市人才工作领导小组办公室  
The Office of the Leading Group for Talent Work of the CPC Zhoushan Municipal Committee  
浙江省舟山市定海区临城街道海天大道681号  
邮政编码: 316021  
681 Haitian Avenue, Lincheng Street, Dinghai District, Zhoushan City, Zhejiang Province  
电子邮件: zjgaoyun@163.com  
网站: <http://www.zsdsj.gov.cn>  
电话: 13758033154  
微信号: zsqdxf

舟山, 依海而生、因海而兴, 是中国东海的一颗璀璨明珠, 地处中国东部黄金海岸与长江黄金水道双龙交汇处, 是中国扩大开放、联通世界的海上门户。总面积2.22万平方公里, 其中海域面积2.08万平方公里, 海洋海岛资源十分丰富, 环境优美, 空气质量稳居国内前列。先后获批第四个国家级新区(首个以海洋经济为主题的国家级新区)、首个江海联运服务中心和第三批自贸试验区, 已成为多项国家战略叠加实施之地。

Zhoushan, born and prospered by the sea, is a shining pearl in the East China Sea. It is located at the intersection of the Gold Coast of East China and the Golden Waterway of the Yangtze River. It is the maritime gateway for China to open up and connect to the world. The total area is 22,200 square kilometers, of which the sea area is 20,800 square kilometers. The marine island resources are very rich, the natural environment is beautiful, and the air quality ranks in the forefront of the country. The fourth national-level new zone (the first national-level new zone with the theme of marine economy), the first river-sea combined transport service center, and the third batch of pilot free trade zones have been approved successively, and it has become a place where a number of national strategies are superimposed and implemented.

## 展位: A105

舟山市科学技术局  
Zhoushan Municipal Bureau of Science and Technology  
舟山市新城海天大道681号市行政中心东1号楼  
邮政编码: 316021  
No.681,Haitian Street,New City,Zhoushan City,Zhejiang Province,China  
电子邮件: 1017182275@qq.com  
网页: <http://zskjj.zhoushan.gov.cn>  
电话: 0580-2281178

市科学技术局是市政府工作部门。主要工作职责:

- 统筹协调全市基础研究、科技攻关、成果转化, 组织实施市级以上各类科技计划;
- 组织实施高新技术发展及产业化、科技促进农业农村和社会发展;
- 牵头组织高新技术企业、科技型中小企业等培育工作, 推进研发机构建设;
- 完善科技成果转化机制建设, 推动科技创新大平台建设;
- 组织开展科技合作与科技人才交流, 牵头推进引进大院名校共建科技创新载体。负责引进国外智力工作和科技人才队伍建设。

Zhoushan Municipal Bureau of Science and Technology is a department under Zhoushan Municipal People's Government. Its primary roles and responsibilities are as follows:

Coordinate the city's basic research, scientific and technological research, and the commercialization of research findings, organize and implement scientific and technological projects at the municipal-level and above;

Organize and implement plans for promoting hi-tech development and wide application and using science and technology to promote agricultural, rural and social development;

Take lead in fostering hi-tech, small and medium-sized enterprises, and promote the construction of R&D institutions;

Improve the mechanisms for applying research achievements, and promote the construction of a major platform for scientific and technological innovation;

Organize scientific and technological cooperation and exchange of talents, and take lead in introducing advantageous resources of famous institutes and universities to jointly build innovative platforms. Responsible for attracting foreign talent and strengthening the ranks of science talent.

## 展位: A106

浙江海洋大学  
Zhejiang Ocean University  
浙江省舟山市定海区临城街道海大南路1号  
邮政编码: 316022  
No.1, South Haida RD, Lincheng Street, Dinghai District, Zhoushan City,Zhejiang  
电邮地址: zjhxyx@zjou.edu.cn  
网页: <https://www.zjou.edu.cn/>  
电话: 0580-2550008  
微信号: zjouz

浙江海洋大学创建于1958年, 是省部共建高校、浙江省重点建设高校之一。习近平总书记曾两次视察我校, 对学校坚持海岛办学给予充分肯定, 要求学校围绕地方经济建设, 努力办出特色, 为全省海洋经济发展作出贡献。

紧紧围绕海洋强国战略, 紧密结合浙江海洋经济发展示范区、舟山群岛新区等建设发展需要, 依托海洋科学、水产两大优势学科, 以建设特色鲜明、国内一流的海洋大学为目标, 努力成为我国重要的海洋人才培养基地、海洋科技研发平台、海洋高新技术孵化园区、海洋科技引智载体和海洋人文社科研究中心。

Founded in 1958, Zhejiang Ocean University (ZJOU) is one of the key universities in Zhejiang Province, co-established by the Ministry of Natural Resources and the People's Government of Zhejiang Province. During his administration of Zhejiang Province, General Secretary Xi Jinping visited ZJOU for inspection and guidance twice, fully affirmed the insistence on running university on islands, and required ZJOU to continue to take the road of hard struggle, strive to develop its characteristics around the local economic construction, and make contributions to the marine economic development of the province.

At present, taking the chance both of the



establishment of marine silk-road and of the construction of Strong Oceanic Country, Zhejiang Ocean University, adhering to connotation-oriented development, collaborative innovation, and international educational and sci-tech cooperation, is optimizing management, developing its characteristics, strengthening advantages, promoting teaching and research quality, striving to become a high-level oceanic university with great influence both at home and abroad.

## 展位: A107

杭州电子科技大学海洋技术与装备研究中心  
Research Center of Ocean Technology and Equipment, Hangzhou Dianzi University  
浙江省杭州市下沙高教园区2号大街1158号  
邮政编码: 310018  
No.2 Road 1158#, Xiasha Higher Education Zone, Hangzhou (310018), P.R.China  
电子邮件: tianxiaqing@hdu.edu.cn  
电话: 18668154789  
微信号: Happiness\_grass

我校自2003年开始参与国家大洋科考, 2013年成立了“海洋工程研究中心”, 拥有“海洋机电装备技术”等多个省重中之重学科; 与“船港机械装备技术研究”等省部级重点实验室; 主持和参加过国家重大涉海项目, 研制的装备连续十余年应用于我国远洋及南北极科学考察, 先后获得过两项国家科技进步二等奖, 一项国家技术发明二等奖等多个省部级奖项。面向“十四五”, 目前中心聚焦于海洋智能装备、海洋水动力、海洋探测与海洋信息化等方向。

Since 2003, our university has participated in the national oceanic scientific research. In 2013, "Ocean Engineering Research Center" has been established, which has several provincial top priority disciplines such as "Marine Electromechanical Equipment Technology", and "Shippot Machinery and Equipment Technology Research" and other provincial and ministerial level key laboratories;

The center has participated in major national ocean-related projects. Lots of equipment has been applied to China's far-ocean and Arctic scientific expedition for more than ten years. We have won two second prizes of national scientific and technological progress and one second prize of national technological invention and other provincial and ministerial awards.

During the 14th Five-Year Plan, the center is currently focusing on the direction of marine intelligent equipment, marine hydrodynamics, ocean exploration and ocean informatization.

## 展位: A109

自然资源部第四海洋研究所  
Forth Institute of Oceanography, MNR  
广西北海市新世纪大道26号  
邮政编码: 536000  
26 New Century Avenue, Beihai, GuangXi  
电邮地址: taoyongjian@4io.org.cn  
电话: 13407707303  
微信号: 13407707303

自然资源部第四海洋研究所(简称“海洋四所”), 挂加中国—东盟国家海洋科技联合研发中心牌子, 与广西海洋发展研究院, 实行“一个机构、一套班子、一体管理”, 是以自然资源部管理为主的国家级公益性、综合性海洋科学研究机构, 由自然资源部和广西壮族自治区人民政府共建。海洋四所立足北部湾、辐射东南亚, 以“1+2+N”模式协同开展科学研究、技术攻关和应用服务的科技创新工作: “1”是开展以海洋生态系统动力学为核心的科学研究; “2”是开展两项以海洋生态环境监测与预测技术, 海洋大数据和区块链技术及智慧应用为重点的技术攻关; “N”是开展若干项以海岸带综合治理, 海洋自然资源开发利用与保护修复, 海洋灾害监测预警与防灾减灾, 海洋经济发展规划等为突破口的应用服务。

The Fourth Institute of Oceanography, Ministry of Natural Resources, also known as "China-ASEAN Countries Joint Research and Development Center of Marine Science and Technology" was approved by the Central Staffing Department and jointly managed in cooperation with the Guangxi Marine Development Institute.

The Institute, facing the Beibu Gulf, the South China Sea and its surrounding sea area, serves the initiative of "One Belt One Road", takes the development of economy and marine management of Guangxi Zhuang Autonomous Region as the center, and aims to form a base for talent cultivation, scientific research, public service, world-class center of theoretical innovation and a think tank for policy consultation for regional development.

## 展位: A110

江苏海洋大学  
Jiangsu Ocean University  
江苏省连云港市海州区苍梧路59号  
邮政编码: 222000  
59 Cangyu Road, Haizhou District, Lianyungang City, Jiangsu Province  
电邮地址: 58547986@qq.com  
网页: <https://www.jou.edu.cn/>  
电话: 18795501806

江苏海洋大学是一所多科性应用研究型大学。学校创建于1985年, 原名淮海工学院, 2019年6月经教育部批准更名为江苏海洋大学。2013年8月, 国务院学位委员会批准学校为硕士学位授予单位。2017年7月, 我校成为博士学位授予立项建设单位。学校占地面积2184.87亩, 有教职工1600余人, 全日制本科生、研究生20000余名。下设19个学院, 开设68个本科专业。“海洋科学”为江苏省优势学科, 机械工程、控制科学与工程、生物工程、药学等8个学科为江苏省重点培育(建设)学科。拥有3个国家级一流本科专业点、2个专业通过教育部工程教育专业认证、3个国家级特色专业、2个国家级专业综合改革试点项目、4个江苏省“十三五”品牌专业、10个江苏省一流专业建设点、9个江苏省特色专业、9个江苏省重点专业(类)。

Jiangsu Ocean University is a multi-subject applied research university. The school was founded in 1985, formerly known as Huaihai Institute of Technology, was renamed Jiangsu Ocean University in June 2019 with the approval of the Ministry of Education. In August 2013,



the Degree Committee of the State Council approved the school as a master's degree granting unit. In July 2017, our university became a Ph.D. awarded to the project construction unit. The school covers 2184.87 acres, has more than 1600 faculty and staff, full-time undergraduates, graduate students more than 20,000. There are 19 colleges and 68 undergraduate majors.

Marine Science is an advantageous discipline in Jiangsu Province, and 8 disciplines, such as mechanical engineering, control science and engineering, biological engineering and pharmacy, are the key cultivation (construction) disciplines in Jiangsu Province. With 3 state-level first-class undergraduate professional points, 2 majors through the Ministry of Education engineering education professional certification, 3 national characteristics of professional, 2 national-level professional comprehensive reform pilot projects, 4 Jiangsu Province "13th Five-Year Plan" brand professional, 10 Jiangsu Province first-class professional construction points, 9 Jiangsu Province specialty, 9 Jiangsu Province key professional (class).

**展位: A111**

海南浙江大学研究院  
Hainan Institute of Zhejiang University  
海南省三亚市崖州区崖州湾科技城用友产业园11号楼  
邮政编码: 572025  
Building 11, Yonyou Industrial Park, Yazhou Bay Science and Technology City, Yazhou District, Sanya, Hainan Province  
电邮地址: zhiguangxin@zju.deu.cn  
网页: http://www.hnyjy-zju.edu.cn/webvnp.zju.edu.cn:8001/  
电话: 13224208182  
微信号: 13224208182

2020年2月17日海南浙江大学研究院在三亚市注册成立, 组建12个科研团队。立足海南战略发展需求和浙江大学“双一流”建设导向, 充分利用海南自贸港资源、区位优势, 政策优势和浙江大学人才、科研、学科优势, 聚焦海洋(深海)和热带农业(南繁育种)领域专题, 深入开展人才培养、科学研究、产业发展等工作, 力争把海南浙江大学研究院建设成为“立足海南、辐射全国”的集教学、科研和成果转化于一体的创新创业研究院。

On February 17, 2020, the Hainan Zhejiang University Research Institute was registered and established in Sanya, and twelve scientific research teams were formed. Based on Hainan's strategic development needs and Zhejiang University's "double first-class" construction orientation, make full use of Hainan Free Trade Port's resources, location, and policy advantages, as well as Zhejiang University's talents, scientific research, and discipline advantages, and focus on marine (deep sea) and tropical agriculture (southern breeding).

We will conduct in-depth work on personnel training, scientific research, and industrial development, and strive to build the Institute of Zhejiang University in Hainan into an innovation and entrepreneurship institute that integrates teaching, scientific research and

achievement transformation "based on Hainan and radiating the whole country".

**展位: A112**

南方科技大学  
Southern University Of Science And Technology  
深圳市南山区桃源街道福光社区学苑大道1088号  
邮政编码: 518055  
No. 1088 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong  
电邮地址: chensw@sustech.edu.cn  
网页: https://www.sustech.edu.cn/  
电话: 18817876116

南方科技大学(简称:南科大)是深圳在中国高等教育改革发展的时代背景下创建的一所高起点、高定位的公办新型研究型大学。学校借鉴世界一流理工科大学的学科设置和办学模式,以理、工、医为主,兼具商科和特色人文社科的学科体系,在本科、硕士、博士层次办学,在一系列新的学科方向上开展研究,使学校成为引领社会发展的思想库和新知识、新技术的源泉。南科大本着“敢闯敢试、求真务实、改革创新、追求卓越”的创校精神,强调“研究,创新和企业家精神”,并致力于推动中国各地的创新项目,并使深圳成为一个创新,现代和国际化的大都市。

Southern University of Science and Technology (SUSTech) is an innovation-oriented public university founded by Shenzhen government in the background of China's higher education reform. SUSTech draws on the experience of world-class science and engineering universities for its disciplinary establishment and governance. It focuses on science, engineering, and medicine in conjunction with distinctive disciplines, including business, humanities, and social sciences. It aspires to be a model and pioneer for promoting higher education reform. In the spirit of "For Truth, Innovation, Reform and Excellence with Diligence and Courage," SUSTech highlights "research, innovation, and entrepreneurship" and dedicates to facilitating innovative projects across China and turning Shenzhen into an innovative, modern, and international metropolis.

**展位: A113**

海南热带海洋学院  
Hainan Tropical Ocean University  
海南省三亚市育才路1号  
邮政编码: 572022  
No.1 Yucai Road, Sanya City, Hainan Province  
电邮地址: yaozhongzhi1992@126.com  
网页: http://www.htou.edu.cn/  
电话: 15057409660  
微信号: 热带海洋学院官方公众号

海南热带海洋学院是由海南省人民政府、国家海洋局、中国海洋石油总公司、三亚市人民政府、三沙市人民政府等共建的全日制公办普通本科省属高校,是外交部、教育部“中国—东盟教育培训中心”、教育部十大“教育援外基地”之一,是国务院学位委员会批准的硕士学位授予单位,是上海合作组织大学中方成员院校,也是海南省中南少数民族地区人才培养摇篮和知识创新、社会服务、文化传承、国际交流与合作基地。



Hainan Tropical Ocean University is a full-time public Undergraduate University jointly built by Hainan Provincial People's government, State Oceanic Administration, China National Offshore Oil Corporation, Sanya Municipal People's government and Sansha Municipal People's government. It is one of the "China ASEAN education and training center" of the Ministry of Foreign Affairs, the Ministry of Education, and the top ten "education aid bases" of the Ministry of Education. It is a master's degree approved by the Academic Degrees Committee of the State Council. It is a Chinese member University of the Shanghai Cooperation Organization and a cradle of talent cultivation and a base of knowledge innovation, social services, cultural heritage, international exchanges and cooperation in the ethnic minority areas of South Central Hainan Province.

**展位: A114**

浙江国际海运职业技术学院  
Zhejiang International Marine Vocational and Technical College  
舟山市临城新区海天大道268号  
邮政编码: 316021  
268 Haitian Road, Lincheng New District, Zhoushan City, Zhejiang Province  
电邮地址: zsg58866@126.com  
网页: http://www.zimc.cn  
电话: 0580-2095031  
微信号: zimc\_xcb

学校坐落在浙江舟山,是一所海洋特色鲜明的公办高等职业技术学院。共有临城本部和岱山两个校区,占地约600亩。在校生8800名,教职工456名,高级职称教师82名,研究生学历(学位)教师占比73%。学校现开设有25个专业,其中国家骨干专业3个,省优势特色专业6个,是全国国防教育特色学校和浙江省“数字校园”示范校。学校坚持“德行四海”校训,弘扬“勤勉”校风,坚持“国际化、应用型、地方性”的办学定位,坚持“立足舟山、服务浙江、面向海内外”的办学方向,努力建设成为海洋特色鲜明的高水平职业院校。

The College Located in Zhoushan, Zhejiang Province, is a public higher vocational and technical college with distinctive marine characteristics. There are two campuses, Lincheng Headquarters and Daishan, covering an area of about 600 mu. There are 8800 students, 456 faculty members, 82 teachers with senior professional titles, and 73% of them have graduate education (degree). There are 25 majors in the school, including 3 national backbone majors and 6 provincial advantageous specialties. It is a national defense education characteristic school and a "digital campus" model school in Zhejiang Province.

The College adheres to the motto of "Virtue goes everywhere", carries forward the spirit of "diligence and practicality", adheres to the orientation of "internationalization, application and locality", and adheres to the direction of "based on Zhoushan, serving Zhejiang and facing both at home and abroad", and strives to build itself into a high-level vocational college with distinctive marine characteristics.

**展位: A115**

嵊泗县人民政府  
Shengsi County Government  
浙江省舟山市嵊泗县菜园镇沙河路  
邮政编码: 202450  
电话: 13645800837  
微信号: 13645800837

嵊泗县是浙江省最东部、舟山群岛最北部的海岛县,海域面积8738平方千米,是宁波舟山港重要组成部分。嵊泗县坚持“生态立县、以港兴县、以旅活县、以渔稳县”总战略,统筹推进产业、生态、品质、设施、数字、改革“六大赋能工程”,以生态优先、高质量发展为主题,全方位融入长三角一体化发展国家战略,全面推进海洋经济转型升级,成功入选全国“两山”发展百强县,成功创建国家生态文明建设示范县、国家海洋生态文明示范区,努力展示“重要窗口”海岛风景线线的嵊泗篇章。

Located in the east end of Zhejiang Province, Shengsi County, an northernmost island county of Zhoushan Archipelago, is an important component of Ningbo Zhoushan port, covering an area of 8738 square kilometers.

In general, Shengsi County adheres to the ecological development underpinned by harbour, tourism and fishery and promotes coordinated progress of "Six Enabling Project", which imparts vitality to the industry, ecology, quality, facilities, digital and reform. Centering on ecological priority and high quality, Shengsi County has infused into the national strategy of Yangtze River Delta Integration in multiple dimensions and pushed forward the transformation and upgrading of marine economy, which leads to its success in being selected as one of the top 100 counties of "Two Mountains" in China and establishing national demonstration county of ecological civilization construction as well as national demonstration zone of marine ecological civilization. Shengsi County will continue devoting great efforts to demonstrate its role in the island scenic line of important windows.

**展位: A116**

海洋出版社/《海洋学报》编辑部  
China Ocean Press/Acta Oceanologica Sinica Editorial Office  
北京市海淀区大慧寺路8号  
邮政编码: 100081  
No.8 Dahuisi Road, Haidian District, Beijing, China  
电邮地址: ocean@hyxb.org.cn  
网页: http://www.oceanpress.com.cn/  
电话: 15311456824  
微信号: 掌上海洋/海洋学报中文版/海洋学报英文版

海洋出版社成立于1978年,是中国最大的海洋科技出版社,每年出版图书300余种。自成立以来出版了3000余种海洋专业著作、普及读物与工具书等相关图书,包括海洋科技、海洋战略、海洋法律、海洋综合管理、海洋环境保护、海洋资源开发、水产养殖、海洋科普等,基本涵盖海洋所有领域。此外,海洋出版社还出版包括图书馆学、计算机、影视动漫等在内的图书。

《海洋学报》《Acta Oceanologica Sinica》是由中国海

洋学会主办、中国科学技术协会主管、海洋出版社出版的海洋科学技术综合性学术期刊。紧密结合我国海洋科研事业的需要，主要刊登物理海洋、海洋化学、海洋地质、海洋生物及海洋交叉学科和海洋工程环境等基础研究和应用基础研究方面有创造性的、代表我国海洋科学技术高水平的原创文章。

China Ocean Press, founded in 1978, is the largest ocean scientific publisher in China. It publishes more than 300 kinds of books each year. Since its establishment, it has published more than 4000 kinds of marine professional works, popular books, reference books and other related books, and covers most of marine area, such as marine science and technology, marine strategy, marine management, marine law, marine environmental protection, marine resource development, aquaculture and marine popular science, etc. In addition, China Ocean Press has published other kinds of books, including library science, computer science, and television animation, etc.

Haiyang Xuebao and Acta Oceanologica Sinica publishes the most recent scientific achievements and results as well as papers in the field of ocean sciences, which includes physical oceanography, marine physics, marine chemistry, marine geology, marine biology, marine meteorology, ocean engineering, marine remote sensing, and marine environment sciences, etc. Progress reports on research projects are also included.

### 展位: A117

中国地质大学(武汉)《地球科学》编辑部  
Editorial Department of Earth Science, China University of Geosciences (Wuhan)  
武汉市洪山区鲁磨路388号  
邮政编码: 430074  
388 Lumo Road, Hongshan District, Wuhan 430074,  
People's Republic of China  
电邮地址: Lgo\_1984@126.com  
网页: <http://www.earth-science.net/>  
电话: 15827584687  
微信号: 15827584687

编辑部现出版有中、英文2本地质综合性学术期刊。《地球科学》(ISSN 1000-2383;CN42-1874/P), 中文科技核心期刊, 被《Ei》数据库100%收录;《Journal of Earth Science》(ISSN 1674-487X;CN 42-1788/P), 英文地学期刊, 被《SCI》数据库100%收录, 2019 IF=2.209。两刊均是由教育部主管、中国地质大学(武汉)主办,以反映最新、高水平的基础地质、应用地质、资源与环境地质及地学工程技术科研成果为主要任务。

The editorial department has two journals, sponsored by China University of Geosciences (Wuhan) and supervised by the Ministry of Education. One is 《Earth Science》(Chinese journal with English abstract, ISSN 1000-2383, CN 42-1874/P), indexed by 《Ei》 database; the other is 《Journal of Earth Science》(English journal, ISSN 1674-487X, CN 42-1788/P), indexed by 《SCI》 database and 2019 IF=2.209. Both of them report essential and original academic research results in all fields of Earth Sciences.

### 展位: C006

上海蓝梭电子科技有限公司  
Shanghai Lansuo Electronics Technology Co., LTD  
上海市宝山区铁山路69号9号楼B208  
邮政编码: 201906  
Room 208, building 9B, no.69, tieshan road  
Shanghai, China  
电子邮件: songcl@lstocean.com  
网站: <http://www.lstocean.com>  
电话: 86-021-56753306  
传真: 86-021-56753306  
微信号: 13818103789

“上海蓝梭电子科技有限公司”、“浙江蓝梭海洋科技有限公司”(以下简称“蓝梭科技”)成立于2015年。是中国海洋学会会员单位, 国家高新技术企业, 国家重点研发计划牵头承担单位。公司具备光、电互连传输行业内权威的技术专家及专业团队, 拥有国家发明专利40余项。

Shanghai LANSUO Electronics Technology Co., Ltd. complying with the new era background of national high-tech marine industrial development, was established as a scientific and technological enterprise for special underwater transmission technology solutions, with the authoritative technical team of experts in domestic optical and electrical interconnection transmission industry, focusing on marine equipment, devices and components, for the purpose of industrial engineering applications, to provide domestic offshore engineering equipment of optical and electrical signals and energy interconnection transmission products. The company has a professional technical research and development team, with more than 30 national invention patents, with the basic skills of product development and production, and systems of technology, quality and testing.

The company's products are mainly applied to the optical and electrical transmission and power transmission of the system and instrument equipment, such as the deep submersible, the ship, the offshore oil platform, the submarine observation network system and so on. For the special environment, the company can customize the connector components and cable products with the characteristics of high pressure sealing performance, corrosion resistance and axial tensile strength.

The representative products of the company mainly include the optical and electrical connector components series, the underwater plug electrical connectors, the rubber connector assembly, the power connector and the new energy automobile wire harness. The performance index of the product can be achieved or better than the imported equivalent products, which is the most appropriate choice for localization and engineering.

### 展位: C007

杭州谱海科技有限公司  
OceanPlot Technology Co., Ltd  
浙江省杭州市余杭区仓前街道龙园路88号3幢1层B103  
邮政编码: 311101



Room B103, Bld 3, No.88, Longguan Road,  
Yuhang District, Hangzhou, China  
电子邮件: info@oceanplot.com  
网站: [www.oceanplot.com](http://www.oceanplot.com)  
电话: 86-0571-88589362  
传真: 86-0571-88589362

杭州谱海科技有限公司是一家集研发、制造及技术服务于一体的高科技企业。谱海科技致力于高精度温盐深测量仪器的设计制造及其应用技术的开发。

本公司主营产品:  
温度测量仪  
水深测量仪  
温盐深测量仪  
温盐测量仪  
温盐深测量仪  
应用于: 表漂、Glider、AUV的OEM温盐深传感器

OceanPlot Technology Co., Ltd. is a high-tech company integrating R&D, manufacturing and technical services. We develop and manufacture high-accuracy CTD used for the fields of physical oceanography, environmental monitoring, aquaculture, etc.

### 展位: C008

赢富仪器科技(上海)有限公司  
INFO.instruments Technology (Shanghai) Co., Ltd.  
上海市杨浦区隆昌路619号城市概念1号楼A208室  
邮政编码: 200090  
Rm A208, NO.1 Building, City Concept, 619 Longchang Road, Yangpu District, Shanghai, China  
电子邮件: sales@infoinstruments.cn  
网站: [www.infoinstruments.cn](http://www.infoinstruments.cn)  
电话: 86-21-65057069  
传真: 86-21-65057101  
微信号: INFO\_instruments

舰船姿态三维运动捕捉系统  
六自由度实时运动数据采集系统  
水下三维运动捕捉系统。

3D Motion Capture System for Ship Attitude  
6-DOF Real-time Motion Data Acquisition System  
Underwater 3D Motion Capture System

### 展位: C009

北京赛迪海洋技术中心  
Beijing Seismic Marine technology center  
北京市海淀区紫竹院路116号10层A座1119  
邮政编码: 100097  
Room 1119, Building A, Jiahao International Center,  
No.116, Zi Zhu Yuan LU,  
Haidian District Beijing, China  
电子邮件: veronica@seismicmarine.com.cn  
网站: [www.seismicmarine.com.cn/](http://www.seismicmarine.com.cn/)  
电话: 86-10-88876983  
传真: 86-10-88879252

北京赛迪海洋技术中心自2002年成立以来,从事海洋水文、地质、资源开发、船舶建造仪器设备的系统集成、市场营销、技术支持和售后服务。

主要产品: IXBLUE声学设备、Nautilus深海浮球和仪器舱、AANDERAA海流计等海洋测量设备、ISE自主式水下潜器等。

Since its establishment in 2002, Beijing Seismic Marine technology center has engaged in research of marine hydrology, geology, resource development, the application to shipbuilding. We also afford system assembling, marketing, technical support and after-sale services.

Main products: IXBLUE: acoustic equipment, Nautilus: Deep Sea Floatation Sphere/Deep Sea Instrument Sphere, AANDERAA current meter and other marine measurement equipment, ISE AUV, etc.

### 展位: C010

上海精导科学仪器有限公司  
Shanghai P-Nav Scientific Instruments Co., Ltd.  
上海市华徐公路999号E通世界北区B幢3A08  
邮政编码: 201702  
Rm3A08 Bld B North Block E-Link World 999 HuaXu Road, Shanghai, China  
电子邮件: sales@p-nav.com.cn  
网站: [www.p-nav.com.cn](http://www.p-nav.com.cn)  
电话: 86-21-32526591  
传真: 86-21-32525022  
微信号: 13917968596

海流计、CTD、波浪仪、浊度仪、边界层沉积物测量仪、海床侵蚀淤积测量仪、潮位仪、声速仪、测深仪、侧扫声呐、浅地层剖面仪、GPS、水声通讯机、USBL、压力传感器、高度计、声呐、水下激光三维扫描仪、惯导、多普勒计程仪、水听器、推进器、水下云台、机械臂

Current Meter, CTD, Wave Sensor, Turbidity Probe, Autonomous Altimeter, Sedimeter TideMaster, SVS, Altimeter, Sidescan Sonar, GPS, Acoustic Communication Module, USBL, Pressure Sensor, Altimeter, Sonar, Underwater Laser Scanner, GNSS, DVL, Hydrophone, Thruster, Underwater Pan-tilt, Robot Arm

### 展位: C011

青岛水德科技有限公司  
Qingdao Watertools Technology Co., Ltd.  
青岛市城阳区中城路345号-2号海都商务中心9层  
邮政编码: 266109  
9F, Haidu Business Center, No. 345-2 Zhongcheng Road, Chengyang District, Qingdao City, Shandong Province  
电子邮件: info@watertools.cn  
网站: [www.watertools.cn](http://www.watertools.cn)  
电话: 86-0532-87761284  
传真: 86-0532-87761264  
微信号: WATERTOOLSTECH

青岛水德科技有限公司专注于为中国用户引进国际先进的海洋调查技术, 我们的设备专门用于海洋、河流、湖泊、地下水等自然水体环境的调查和研究, 主要包括: 水环境采样仪器和水环境监测仪器。

海洋调查研究, 水德与您同行!

Qingdao Watertools Technology Co., Ltd. is a company

who is committed to introducing international advanced oceanographic technique for Chinese users. The instruments and equipment we sell are specially used for the investigation and research of natural water environment such as oceans, rivers, lakes and groundwater, including: water environment sampling instruments and water environment monitoring instruments.

**展位: C013**

上海溪淇电子科技有限公司  
Shanghai Xiqi Technology  
上海市-宝山区-南蕰藻路408号7号楼209室  
Shanghai-Baoshan-Nanyungao Road 408No. 7 Building 209 room  
电子邮件: 790696041@qq.com  
微信号: 18217471542

公司产品主要应用于水下机器人、海洋系统、水下仪器设备间的光、电数据信号及电能传输。如深潜器、舰船、海洋石油平台、海底观测网系统、各类海洋水下仪器等。针对水下特殊环境工程应用定制具有深耐压密封性能、耐腐蚀性能、抗轴向大拉力、微浮力、端面纵向水密等特性的水下特种线缆、水密连接器接插件、组网传输组件及相关附件产品。

The representative products mainly include special watertight cable, watertight connector, shore-based underwater equipment collection and release system, watertight slip ring (rotary connector) and all kinds of marine equipment connection accessories. The product performance index reaches or is superior to imported similar products, has more than 10 years underwater engineering application case, is the underwater system, the marine engineering equipment localization, the engineering application choice.

**展位: C015**

北京欧仕科技有限公司  
Beijing Osees Technology Co.,Ltd.  
北京市朝阳区奥运村街道北沙滩1号中电大厦711室  
Room 711,Zhongkedian Bldg. No.A1 Beishatan,Olympic Village Street,Chaoyang District, Beijing, China 100083  
电子邮件: scarlett@osees.com.cn  
网站: www.osees.com.cn  
微信号: wxid\_ya7tpbtez42i22

北京欧仕科技有限公司成立于2006年,总部位于北京市朝阳区,子公司分布于厦门、上海和青岛,是一家专业的环境仪器设备研发及贸易企业,产品涉及环境保护、海洋生态、生命科学等多个领域,为环境事业的可持续发展提供有力的技术支持。

Beijing Osees is an agency of professional environmental and marine equipments. Our products are mainly used in the field of Ecology, Environment and Oceanography, etc. At present, our company has formed a partnership with a number of internationally renowned instrument manufacturers, and is responsible for business, technical support and providing the service for the customers in China.

**展位: C017**

曼迪匹文(北京)科技服务有限公司  
MDPI  
北京海淀区花园路街道 花园路甲13号院7号楼 庚坊国际发展中心4层  
邮政编码: 100088  
Floor 4, Building 7, Yard 13, Huayuan Rd, Haidian District, 100088 Beijing, China  
电子邮件: jmse@mdpi.com  
网站: https://www.mdpi.com/journal/jmse  
电话: 15932121131  
微信号: 15932121131

Journal of Marine Science and Engineering (JMSE), 最新影响因子是2.033, 在"Oceanography"学科类别中位列Q2, 期刊排名为31/66. JMSE是一个与海洋科学相关的国际型开放获取期刊。期刊范围涵盖海洋科学所有领域。JMSE采取单盲同行评审, 平均处理周期约为33天。

Journal of Marine Science and Engineering (ISSN 2077-1312) is an international, peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering.

**展位: C019**

青岛瑞泰尔电子技术有限公司  
Qingdao Reepairr Electech Co.,Ltd.  
青岛市市北区东胜支路12号106户  
邮政编码: 266000  
No. 12-106 Dongsheng Road, Qingdao China.  
电子邮件: Reepairr@qdreepairr.com  
网站: http://www.reepairr.com  
电话: 86-532-68876918  
传真: 86-532-6887 6922  
微信号: 18661876630

青岛瑞泰尔电子技术有限公司成立于2001年, 坐落在美丽的海滨城市青岛, 是一家注册资本1000万的集技术创新、研发、生产服务于一体的专业技术公司。公司秉承创新精湛、脚踏实地、团结协作、追求卓越的企业精神, 紧跟世界科技发展的步伐, 坚持技术创新14年并通过ISO9001质量管理体系认证, 公司致力于为客户提供高可靠的、高品质的水密连接技术方案和定制服务。

2001年至今, 公司结合国内外同类产品的特点, 经反复研究探索, 实现了替代进口并开发了一系列增强型水密连接器, 能实现玻璃仪器舱的定制化服务: 打孔、密封、安装、压力测试。公司产品广泛应用于海洋科考, 石油钻探, 环保监测, 海洋军工, 海洋养殖捕捞等领域, 主要客户来自于全国各地海洋研究院, 军工厂, 造船厂, 环保局, 水文站。随着新时期国家海洋发展战略的不断深入, 海洋科研领域的不断扩大紧紧把握海洋科技进步时代潮流, 努力发展为集研发与生产于一体的综合部门, 以实现海洋仪器国产化为己任, 力求做出军品级高可靠的海洋仪器, 为中国的海洋事业发展做出自己的贡献。

Qingdao Reepairr Electech Co.,LTD established in 2001, located in the beautiful coastal city Qingdao. Our company is a professional technology company which is combined with research and development, innovation, production and service .

The concept of our company culture is : innovation,



stabilization, cooperation, deployment. Our company insists on innovation for 14 years and we passed the ISO9001 Quality Management System Certification . The main departments of our company : marine instrument department, connector department, technical research and development department, reefer products department, purchase department and financial department.

**展位: C031**

劳雷地球物理系统有限公司  
Laurel Geophysical Systems Limited  
香港筲箕湾南安街83号海安中心15层C室  
北京朝阳区半截塔路55号7楼树创意园B5-1 Room C, 15/F, Eastern Commercial Centre, 83 Nam An Street, Shao Kei Wan, Hong Kong  
Suite B5-1,Qikeshu Innovation Park, #55, Banjieta Raod, Chaoyang District, Beijing  
电子邮件: laurel@laurelgeophysics.com.cn/  
info@laurelgeophysical.com.hk  
网站: www.laurelgeotech.com  
电话: 86-10-85850099  
传真: 86-10-85850091

专注科学探索仪器系统综合服务提供商

劳雷工业集团自1991年成立以来, 专注地球物理勘探及海洋科学调查领域, 最早向中国市场提供地球物理调查仪器及技术解决方案, 坚持创新与合作, 为科研院所、高校机构、企业用户等提供地球物理和海洋调查仪器的应用研究。系统集成、软硬件研发制造、市场营销、售后技术服务以及工程技术咨询服务, 为人类提供穿透地球、遨游海洋的科学信息。近年来, 劳雷工业集团正致力于以无人智能创新技术手段引领行业, 开发并应用无人直升机航磁系统等全新探测技术, 全力构建“远程、无人、遥测、遥感”地球探索新时代, 引领行业未来创新增长之路。目前, 劳雷在北京、上海、成都、香港、美国分别设有分公司、代表处、维修中心, 已向中国应用地球物理和海洋调查界提供了成千上万套仪器系统, 帮助无数用户完成诸多重大国家科学和工程项目。

- 展品包括:
- 远程无人自主海洋综合观测系统
  - OBS海底宽带地震/重力观测系统
  - 水面无人自主工程地震勘探系统
  - FlyImager水下目标快速声学搜寻、光学识别系统
  - T-RANGER超长隧道水下声学成像系统
  - DOE PHANTOM系列遥控机器人 (ROV)
  - 激光光源海磁日变观测站 (海面/海底)
  - GT-3海洋航空重力测量系统

Laurel Industries provides comprehensive scientific exploration instrument systems and related services. Since its establishment in 1991, Laurel Industries has focused on geophysical exploration and marine scientific survey markets. It was the first in China to provide geophysical survey instruments and technical solutions with an emphasis on innovation and cooperation to the nation's scientific research institutes, universities, corporate users, etc.

Laurel provides geophysical and oceanographic survey instruments, engineering consulting services incorporating applications research, system integration, software and hardware R&D, manufacturing, marketing

and after-sales technical services. Laurel provides the means to acquire scientific information enabling human exploration in the earth and in the ocean.

In recent years, Laurel Industries is committed to leading the industry with unmanned intelligent technology by developing and applying new detection technologies such as unmanned helicopter aeromagnetic systems, and making every effort to build a new era of "remote, unmanned, telemetry, and remote sensing" earth exploration.

Leading the industry's future innovation growth path, Laurel, headquartered in Beijing, operates through representative offices, and maintenance centers in Beijing, Shanghai, Chengdu, Hong Kong, and the United States.

Laurel Industries has provided thousands of instrument systems to China's applied geophysics and oceanographic survey disciplines, helping countless users to complete many major national science and engineering projects.

**展位: C033**

江苏亨通海洋光网系统有限公司  
Hengtong Marine Cable Systems Co.,Ltd  
江苏省苏州市常熟经济技术开发区通达路8号  
邮政编码: 215200  
No.8,Tongda Road Changshu Economic Development Zone, Su Zhou Jiangsu Province  
电子邮件: wangiawen@htgd.com.cn  
网站: http://cn.hengtongmarine.com/  
电话: 86-0512-5226815  
微信号: 亨通世界

江苏亨通海洋光网系统有限公司, 是一家致力于海洋通信(跨洋通信系统)、海底观测、海洋信息(水下特种缆系统、海洋探测及安防系统、海洋牧场、海上油气平台等系统解决方案)及智慧水业务(水利、水务、气象信息化及信息化运维)等领域的国家高新技术企业, 拥有“江苏省水下光网络工程研究中心”、“江苏省海洋通信系统装备工程技术研究中心”和“全海域海底光缆系统检测中心”, 截止2020年12月底, 亨通海洋全球海底光缆交付里程数突破40,000公里, 产品已广泛应用于亚、非、南美、欧洲等地区。

Hengtong Marine Cable Systems Co.,Ltd is a national high-tech company dedicated to submarine communication (trans oceans communication system), submarine observation, marine information (underwater special cable system, ocean detection and security system, ocean ranch, offshore oil and gas platform and other system solutions) and smart water business (water conservancy, water service and meteorological informatization and maintenance). Besides, Hengtong has "Jiangsu Underwater Optical Network Engineering Research Center", "Jiangsu Marine Communication System Equipment Engineering Technology Research Center" and "Submarine Optical Cable System Testing Center". By the end of December 2020, the global submarine optical cable delivered mileage of Hengtong Marine has exceeded 40000 km, and products have been widely used in Asia, Africa, South America, Europe and other regions.

**展位: C035**

深海载人装备国家重点实验室 (中国船舶70二所)  
State Key Laboratory of Deep-sea Manned Vehicles  
江苏省无锡市滨湖区山水东路222号  
邮政编码: 214082  
No.222 East Shanshui Road, Binhu District, Wuxi,  
Jiangsu, China  
电邮地址: lilong@cssrc.com.cn  
电话: 0510-85558776

深海载人装备国家重点实验室于2015年9月获得科技部批准, 依托单位为中国船舶集团第七〇二研究所。实验室主要开展深海载人装备技术的创新研究, 研究方向包括深海载人装备总体技术、超大潜深结构技术、水下作业技术以及系统调试和仿真技术。

实验室拥有完备的研究设施和雄厚的人才队伍, 近年来先后研制成功了“蛟龙”号、“深海勇士”号、“奋斗者”号等深海载人潜水器, 为我国海洋事业发展提供了重大装备支撑。

State Key Laboratory of Deep-sea Manned Vehicles, hosted by China Ship Scientific Research Center (CSSRC), the country's largest ship and ocean engineering research institute, was officially approved by the Ministry of Science and Technology of P.R. China in September, 2015. The main task of the lab is to develop innovative technology of the deep-sea manned vehicles, which focuses on the following four research directions, including submersible overall design, high-pressure structure design and evaluation, underwater operation and systematic test and simulation. The lab is equipped with complete research facilities and a high-level scientific research team. And in recent years, the lab has undertaken a lot of national research projects, and successfully developed "Jiaolong", "Shenhaiyongshi", and "Fendouzhe" HOVs. The lab's achievements have made a significant contribution to Chinese ocean exploration and exploitation.

**展位: C037**

上海遨拓深水装备技术开发有限公司  
Auto Subsea Vehicles Inc.  
上海市浦东新区新城镇海基六路218弄8号楼3F  
邮政编码: 201306  
3F, Building 8, Lane 218, Haiji Liu Road., Pudong,  
Shanghai 201306, China  
电子邮件: marketing@autosubsea.com  
网站: www.autosubsea.com  
电话: 86-21-20903012  
传真: 86-21-20903021

遨拓是QHSE认证企业、上海市高新技术及专精特新企业, 牵头承担国家863计划作业型ROV产品化技术研发、国家重点研发计划基于VR技术的ROV辅助作业系统研发与应用等。公司研制深水工程装备并提供专业可靠的水下工程解决方案。

Autosubsea Vehicle Inc. (AVI) is a leading provider of ROV-based underwater engineering services in China with underwater engineering solutions covering inspection and maintenance for subsea oil and gas pipelines, subsea power and communication cables,

underwater structures, hydropower stations etc.  
AutoSubsea is ISO9000/14000/HSE certified by ABS.

**展位: C039**

劳雷海洋系统有限公司  
Laurel Technologies Co., Ltd  
北京市海淀区东北旺西路8号院25号立思辰大厦2层  
邮政编码: 100193  
2F, Lanxum Mansion, No.25 Building, No.8  
Dongbeiwang West Road, Haidian District, Beijing,  
100193, China  
电邮地址: laurel@laureltech.com.cn  
网站: www.laureltechnologies.com  
电话: 86-10-82550789  
传真: 86-10-82550786

劳雷海洋仪器是专注海洋科学探索的仪器系统综合服务提供商, 致力于提供国际一流海洋调查技术与设备, 开拓应用、开放创新, 整合全球先进技术资源, 为海洋测绘、物理海洋学、水下工程作业等领域用户提供有前瞻性且竞争力的解决方案、产品和服务, 为人类提供遨游海洋的科学信息。近年来, 劳雷海洋仪器全力发展远程无人测绘系统、人工智能机器人等技术创新, 引领海洋调查行业创新趋势, 与用户通力合作, 全力构建集海空、海面、水下一体的无人智能海洋观测网。

目前, 劳雷海洋仪器在北京、上海、青岛、广州、香港分别设有分公司、代表处、维修中心, 已向中国海洋调查界提供多波束测深系统近200套、多普勒流速剖面仪超过1000套、高分辨率侧扫声呐近百套.....帮助上千用户完成诸多重大国家科学和工程项目

Over a long period of time in the fields of oceanographic and geophysical instrumentation LAUREL has been engaging in application research, system integration, hardware and software R&D, marketing, post-sale service and engineering consultation.

LAUREL takes active part in scientific investigation, resource exploration, engineering inspection, environmental protection and other activities. It established several branches, representative offices, repair centers in Beijing, Shanghai, Hong Kong and San Jose, USA. LAUREL has successfully introduced many pioneer exploration instrument/system to Chinese market based on the joint R&D with most active scientific clients and well-known instrument manufacturers in the world and adopting resource/venture-sharing policy and parallel working mode at R&D and in-site experiment stages.

LAUREL has provided thousands of instruments and systems to Chinese geologists, geophysicists and oceanographers to help them to fulfill numerous important state scientific research projects and engineering projects.

**展位: C046**

深海矿产资源开发利用技术国家重点实验室  
State Key Laboratory of Exploitation and Utilization of Deepsea Mineral Resources  
湖南省长沙市岳麓区麓山南路966号  
邮政编码: 430012  
966 Lushan South Road, Yuelu District, Changsha City,



Hunan Province  
电邮地址: 351681767@qq.com  
网页: http://www.crimm.com.cn/  
电话: 15874826053  
微信号: crimm0731-88657180

深海矿产资源开发利用技术国家重点实验室是我国第一批以企业为主体建设的实验室, 是我国最早开展海洋矿产资源开发利用技术研究的实验室和我国海洋矿产资源开采和选冶加工等技术开发的主要依托单位, 是我国“十五”至“十一五”海洋采矿中试采矿系统总设计师单位, 完成了海洋采矿部分试验系统135m水深湖上试验、230m水深矿提升试验和304米深海扬矿泵管系统海上试验。完成了我国首台深海采矿作业车“蛟龙500”500米水深海上试验, 代表实验室已突破多项海洋矿产资源开发关键技术, 为未来深海采矿商业化开采奠定了坚实的基础。

State Key Laboratory of Exploitation and Utilization of Deepsea Mineral Resources is the first batch of laboratories built by enterprises in China. It is also the earliest scientific research company to carry out research on the exploitation and utilization technology of deepsea mineral resources in China and the main supporting company for the exploitation and processing of deepsea mineral resources in China. It is the chief designer company of the pilot mining system during the "Tenth Five-year Plan" to "Eleventh Five-year Plan" in China. It has completed the lake test of collector in 135m water depth, the lifting test in 230m water depth and the sea test ore lifting pump pipe system in 303m deep. The first mining collector "Kunlong 500" in China has completed the 500-depth sea test in south China sea, which represents that our company has solved the transportation and collection technical difficulties in ocean mining, and laid a firm foundation for the commercialization of deep sea mining in the future.

**展位: C047**

卫星海洋环境动力学国家重点实验室  
State Key Laboratory of Satellite Ocean Environment Dynamics  
保做北路36号自然资源部第二海洋研究所科技楼607办公室  
邮政编码: 310012  
Room 607 of No.1 Building, No.36 Baochubei Road,  
Hangzhou  
电邮地址: houruikai@sio.org.cn  
网页: https://www.soed.org.cn/  
电话: 0571-81963561, 13913963294  
微信号: 卫星海洋环境动力学国重室

卫星海洋环境动力学国家重点实验室于2006年7月由科技部批准建设, 2009年12月通过验收。实验室以海洋资源、权益与防灾减灾等国家重大需求为牵引, 以建立海洋环境立体监测与预测的技术和理论体系为目标, 围绕海洋卫星遥感技术与应用、海洋动力过程与生态环境、大洋环流与气候变化三大方向, 开展应用基础研究。设有四大公共支撑平台, 即国家海洋卫星地面站、中国Argo实时资料中心、仪器共享中心和计算与大数据共享中心等公共支撑平台。

State Key Laboratory of Satellite Ocean Environment

Dynamics (SOED) was constructed since July 2006 and was approved by the Ministry of Science and Technology in December 2009. Motivated by vital national needs for protecting marine resources and rights, and for disaster prevention and mitigation, and with the goals of establishing technological and theoretical system for three-dimensional marine environmental monitoring and prediction, the staff at SOED carry out researches on applications in three main research fields: marine satellite remote sensing technology and application, ocean dynamic processes and marine eco-environment, and ocean circulation and climate change. Also, four public facilities of SOED have been constructed: National Marine Satellite Ground Station, China Argo Real-time Data Center, Marine Instruments Sharing Platform and Computing and Data Sharing Center.

**展位: C048**

海洋地质国家重点实验室 (同济大学)  
State Key Laboratory of Marine Geology, Tongji University  
上海市杨浦区四平路1239号  
邮政编码: 200092  
1239 Siping Road, Shanghai  
电邮地址: mlab@tongji.edu.cn  
网页: https://mlab.tongji.edu.cn/main.htm  
电话: 021-65985090, 13917410686  
微信号: Tongji\_Ocean

海洋地质国家重点实验室(同济大学)成立于2006年, 以海洋及相邻陆区的环境演变与海底资源为总目标, 以与国际接轨的深海基础研究为特色, 借助国际大洋钻探、国家长期海底科学观测等大型研究计划和平台, 瞄准地球圈层系统和海陆相互作用中的重大科学问题, 开展多时空尺度的基础研究, 突出“地球系统科学”的理念, 实现海洋与陆地结合, 古代与现代结合, 科学与技术结合的学科发展之路。

The State Key Laboratory of Marine Geology (MGLab) at Tongji University was established in 2006. The Goal of MGLab is to investigate environmental changes and natural resources in global oceans and neighbouring continental regions with an emphasis on Asian marginal seas. By actively involving in international ocean drilling activities, submarine observatories, and other large international research programs, MGLab is committed to understanding the comprehensive earth system science and the interaction between ocean and Earth's other spheres at various spatial and temporal scales. The Vision of MGLab is to maintain unparalleled depth and breadth of expertise in marine geology across a range of oceanographic research areas. The Mission of MGLab is to advance the understanding of interplay between ocean and land through broad national and international collaborations for cross-disciplinary integrations and the application of advanced instruments and novel techniques.

**展位: C049**

近海海洋环境科学国家重点实验室 (厦门大学)  
State Key Laboratory of Marine Environmental Science

(Xiamen University)  
福建省厦门市翔安南路4221号  
邮政编码: 361102  
No. 4221 Xiang'an South Road, Xiamen, Fujian, China  
电邮地址: vera\_shiwei@xmu.edu.cn  
网页: http://mel.xmu.edu.cn  
电话: 0592-2186039, 13950003935  
微信号: MELXMMU

近海海洋环境科学国家重点实验室于2005年成立, 瞄准与全球变化有关的重大科学问题, 直面国家对海洋环境保护和生态安全的重大需求, 立足基础研究和应用基础研究, 关注在自然变化和人类活动影响下的海洋生态系统对环境变化的响应和反馈, 主攻海洋生物地球化学过程及其与海洋生态系统相互作用。实验室在海洋碳、氮循环的通量与过程、调控机制及海洋酸化等生态效应方面优势明显, 以原创新技术、新方法的研发为特色, 在海洋现场观测与实验、遥感探测等方面具备卓越的能力。

Established in 2005, the State Key Laboratory of Marine Environmental Science (MEL) is currently a primary research institution in China carrying out marine environmental science research. MEL is dedicated on global change scientific issues to serve China's goal of marine resources sustainability and ecological security. Emphasizing fundamental and interdisciplinary research, MEL focuses on marine biogeochemical processes and their interactions with the marine ecosystems, particular attention is drawn to the impact and feedback of marine ecosystems to environmental changes under the influence of natural and human activities. MEL strives to build a world-class ocean science research center, leading in marine biogeochemistry and related fields, with excellent training capabilities, and as an important force in serving the nation's marine strategic needs and the global maritime affairs.

**展位: C050**

宁波同盛海洋科技有限公司  
Ningbo Topsun Marine Technology Co.,Ltd.  
浙江省宁波市鄞州区天童南路 568 号恒元商务大厦 902-1 室  
邮政编码: 315100  
Room 902-1, Hengyuan Business Building, No.568  
Tiantong South Road, Yinzhou District, Ningbo China.  
电子邮件: sales@topsun-marine.com  
网站: http://www.topsun-marine.com  
电话: 86-400-61581129  
传真: 86-0574-86118299  
微信号: 15158307697

宁波同盛海洋科技有限公司(简称:同盛海洋)成立于2015年,总部位于宁波,在北京、上海、深圳、成都、香港设有办事处,与加拿大Applanix公司设有船载定位定姿联合实验室,是一家专注于地球科学观测和测量系统的综合方案服务商。公司具有专业化的人才队伍,秉承“简约高效、追求卓越”的理念,深耕于海洋领域,立志为人类发现世界、认识世界、改变世界,提供科学的观测和测量数据,从而构建更加美好的未来世界。

同盛海洋公司与全球众多知名厂商建立了合作关系,包括:Teledyne Marine 集团、L3 集团、ASV 公司、VAISALA 公司、Klein Marine 公司、Applanix 公司等等。公司致力

于提供专业化的解决方案,使用户能足不出户就能享受最优质的本地化服务。

公司产品有多波束测深系统、单波束测深系统、侧扫声呐系统、浅地层剖面系统、海事气象系统、成像声呐系统、船载定位定姿系统、水下与水面导航定位系统、海底取样系统、单道与多道电火花地震系统、水下监测系统、水下机器人和无人船测量系统等。

同盛海洋公司具有一支专业化的研发团队,保持着与全球高精尖技术和全球用户的实时交流与融合,本着海洋国产化的目标,本地化的技术服务目的,为用户提供专业的定制系统设计、产品生产和产品售后服务,目前推出了国内第一套商业化国产单道与多道电火花地震系统。

同盛海洋秉承“简约高效、追求卓越”的理念,提供一站式解决方案,与国家多个海洋部门进行了长期稳定合作,参与了雪龙2号、嘉庚号、中大号等科考船建设,与交通运输部、水利部、科技部、中国石化、中国海洋石油、中科院等进行了深入合作,以良好的产品和优质的技术服务赢得了广大行业客户的信任和支持。

Topsun Marine was founded in Beijing in 2015, who is a comprehensive service provider specializing in earth science observation and measurement systems. Adhering to the concept of "simplicity, efficiency and pursuit of excellence", the company is deeply committed to the field of earth science observation and ocean survey, and determined to discover, understand and change the world for mankind, and provide scientific observation and measurement data, so as to build a better future world. At present, the company headquarters set up in Ningbo, Beijing, Shenzhen, Chengdu, Hong Kong have offices.

Topsun Marine concentrates on equipment application, system integration, product development and technical services. We hope to provide users with complete equipment and technical services through experienced, physically and mentally strong, capable and excellent team. At the same time, we will share with the world the technological progress in the field of earth science observation and measurement, and build a better world for human beings.

**展位: C051**

广州浩瀚电子科技有限公司  
Seatech China Co., Ltd.  
广州市番禺区东环街番禺大道北555号节能科技园内天安科技创新大厦309  
邮政编码: 511400  
Rm309, Chuang Xin Da Sha, Tian An Ke Ji Yuan, No.555,  
Pan Yu Da Dao Bei, Panyu, Guangzhou, P.R.China  
电子邮件: dye@seatechchina.com  
网站: www.seatechchina.com  
电话: 020-39388496  
传真: 020-39388337

浩瀚电子代理全球高科技和高可靠性的海洋设备,如声呐、水下连接器及电缆、水下摄像系统、传感器、水下机器人等,同时具有水下电缆组件的密封加工能力。产品主要用于海洋科研、勘探与开发、海军、海油、水下测绘等。

Seatech China engages in distributing international advanced maritime products, equipment and



technology, to promote the domestic industrialized products from maritime research achievements, to obtain and maintain maritime hi-techs and intellectual property rights and put them timely into production, so as to accelerate the development of maritime hi-techs and industry.

**展位: C053**

中航深蓝水下精密技术(深圳)有限公司  
SeaLinks Technology Co.,Ltd  
深圳市盐田区海山街道鹏湾社区海景二路科技大厦6A-374  
邮政编码: 518000  
No.6A-374, Technology Building, Haijing 2nd Road, Pengwan, Haishan Street, Yantian, Shenzhen, China  
电子邮件: Sealinks@tom.com  
网站: http://www.sealinks.cn  
电话: 86-020-31103726  
传真: 86-020-31104705  
微信号: 15013080293

中航深蓝水下精密技术(深圳)有限公司, 2020年成立于中国深圳, 是一家专业的潜水连接器生产厂家。

公司产品主要有水下橡胶和金属电连接器, 水下金属光连接器、水下同轴连接器、水下以太网连接器、水下插拔连接器、水下承重头等各种水下节点及传输方案。产品主要应用于大洋科考、水下工程作业、海洋石油等领域。

公司生产场地占地超过1000平方米, 每个连接器生产都按照最严格的标准, 出厂前都需要进行各项测试, 把保证产品质量作为生产的第一要务。公司研发设计团队有扎实的专业知识, 持续创新, 不断倾听客户反馈, 将设计灵感和客户需求紧密的结合在一起, 不断改进我们的产品性能, 做到精益求精; 销售团队充满活力, 以客户为中心, 为客户提供最优质服务。

中航深蓝水下精密技术(深圳)有限公司的水密连接器产品应用于海洋及水下行业的各个单位和部门, 越来越多的客户认识我们的产品并予以认可, 我们的目标是做客户最满意的水下连接器生产厂家, 为海洋研究和开发事业尽自己的一份力量。

SeaLinks Technology Co.,Ltd established in 2020, based in ShenZhen China .SeaLinks is the major manufacturer of subsea connectors. It focuses on markets of ocean scientific research, underwater engineering, offshore oil and others.

The company offers a portfolio of underwater connector technology, encompassing rubber connectors, metal connectors, fiber connectors, coax connectors, assembly, cables, etc.

**展位: C055**

云南保利天同水下装备科技有限公司  
Baoli Tiantong Underwater Equipment Technology Co., Ltd.  
云南省昆明市安宁市太平新城街道办太安路8号211室  
邮政编码: 100088  
Room 211, 8, Tai'an road, Taipingxincheng sub-district, Anning, Kunming, Yunnan Province.  
电子邮件: 181138101@qq.com  
网站: http://www.hdyocean.com.cn  
电话: 86-871-63539233  
传真: 86-871-63544269  
微信号: 15863083575

公司历史: 保利天同深海技术股份有限公司成立于2002年, 是中国保利集团旗下的水下业务平台  
公司定位: 以水下尖端装备为发展方向的国家级高新技术企业  
主营业务:

- 1.开发世界领先的水声图像、水声通讯、水声导航定位和标准水听器尖端装备, 以及港口智能防御系统
- 2.引进国外顶级深海装备及先进技术成果
- 3.发挥公司雄厚的研发优势, 参与国家重点项目攻关

Baoli Tiantong Underwater Equipment Technology Co., Ltd. is founded in 2002, and is the underwater business platform belong to China Poly Group Corporation.

**展位: C056**

杭州海斗量海洋仪器有限公司  
Hangzhou Haidouliang Marine Instruments Co., Ltd  
杭州市西湖区西港发展中心西3幢A-1002  
邮政编码: 310000  
3A-1002, Xigang Development Centre, Hangzhou, PRC  
电子邮件: hzhdli@haidouliang.com  
网站: www.haidouliang.com  
电话: 0571-86463533  
传真: 0571-86961646

杭州海斗量海洋仪器有限公司成立于2011年, 作为一家高端精密仪器代理机构, 我们始终紧跟用户的脚步, 致力于为海洋调查研究提供更科学精确的数据。

公司自成立以来, 全面拓展业务, 不断引进国际先进的水文仪器, 为客户提供优质前沿科技服务体验并且与国内多家厂商合作, 推进自主品牌产品的研发和生产, 为客户带来灵活高效的服务体验以及最优的售后。

公司代理的国际品牌覆盖了挪威Aanderaa、德国Sea&Sun和法国IXSEA等知名品牌。目前为止, 杭州海斗量海洋仪器有限公司已与众多相关机构、高校、研究所, 以及国外厂商达成了良好的合作伙伴关系; 并以先进的产品、解决方案与优质的服务在客户群中取得了良好的口碑。

Founded in 2011, Hangzhou Haidouliang Marine Instruments Co., Ltd is a high-end precision instrument agency with kinds of oceanographic instruments and sensors. All the way, we follow the steps of our end users and are committed to providing more scientific and accurate data for them, serving marine survey research.

Since the inception, we have expanded our business in an all-round way. On the one hand, we continuously introduce international advanced hydrological instruments, providing users with high-quality and cutting-edge technology service experience. On the other hand, we cooperate with domestic manufacturers, aiming at promoting the R&D of our independent brand products, thus bring users a flexible and efficient service experience and the best after-sales service.

As an agency, the brands we have an engagement with cover a wide range of world-leading brands, including but not limited to AANDERAA (Norway), Sea&Sun (Germany) and IXSEA (France).

So far, we have reached a good partnership with many related institutions, universities, and foreign

manufacturers. With advanced products, solutions, and quality service in the customer group, we have achieved a good reputation.

**展位: C058**

水声技术国防科技重点实验室  
Acoustic Science and Technology Laboratory  
哈尔滨市南岗区南通大街145号  
邮政编码: 150001  
No.145, Nantong Street, Nangang Dist.  
Harbin 150001, Heilongjiang Province  
电子邮件: shuishengjishu@163.com  
网站: http://www.hrbeu.edu.cn  
电话: 0451-82518584

水声技术重点实验室围绕国家、国防重大科技前沿、装备研究的重大需求和制约水声技术性能的重大基础问题和技术瓶颈,探索水声技术的新原理、新方法,开展水声技术科学研究;探索水声工程领域技术的新原理、新方法。实验室拥有水声综合楼和水声水池综合实验楼,是综合性试验场,多年来通过多项实验室能力建设,实验室条件达到国内领先、国际一流水平。现拥有多个大型基础实验设施,是我国海洋信息领域最先进的基础研究平台。

Acoustic Science and Technology Laboratory owns a huge variety of underwater technically advanced facilities, provides a fertile environment for research that has spawned a host of scientific breakthroughs and technical advances. Achievements since it founding include undertaking the projects of National Science Fund, Doctoral Fund of National Education Ministry, high technical shipping scientific, the defense plan and fund of the province and ministry, as well as some other military and civil projects, many of which have been awarded at the provincial, the ministerial and national levels. The research fields including underwater acoustic engineering, acoustics signal and information processing, communication and information systems.

The laboratory owns many labs for teaching and scientific research, the laboratory has several subsections, such as Center of Underwater Acoustic Information Processing, Sonar System Environmental Lab, Underwater Acoustic Signal Channel Simulating Lab and Gravitational Low Noise Water Tunnel Lab. There are 15 workstations and several hundred personal computers in the labs. Additionally the labs are equipped with a large number of advanced software tools.

**展位: C059**

东海实验室  
Donghai Lab  
浙江省舟山市定海区临城浙大路1号  
邮政编码: 316000  
Zhoushan Campus NO.1 Zheda Road Dinghai District,  
Zhoshan, Zhejiang  
电邮地址: lexiaxia@zju.edu.cn  
电话: 0580-2092277

东海实验室是由舟山市政府举办,浙江大学、自然资源部海洋二所共建共管的新型研发机构,目标定位为“立足浙江,联动长三角,深耕东海,走向太平洋,建设国际一流的海洋科创平台”。

实验室重点聚焦陆岛智能联动运营、海洋环境立体感知和海洋资源绿色开发等领域的重大需求,开展应用基础研究、共性关键技术攻关和技术成果产业化,打造“互联网+海洋”科创高地,为早日构建现代海洋产业体系、加快建设海洋强国提供科技支撑。

Donghai Lab is a new type of R&D institution established by Zhoushan Government, and jointly constructed and managed by Zhejiang University and Second Institute of Oceanography MNR. The lab is dedicated to developing a Zhejiang-based, Changjiang-delta-collaborated world-leading research institute focusing on China East Sea towards the Pacific Ocean.

The lab focuses on the fields of Land-Island Intelligent Connection & Operation Management, Comprehensive Sensing of Ocean Environment, and Green Exploitation of Oceanic Natural Resources. It is committed to advancing, implementing and industrializing ocean science and technologies.

**展位: C060**

OT 海洋人才荟  
OceanTech Talent Club  
电子邮箱: oceantalent@together-expo.com.cn

OT海洋人才荟于2019年启动,在全国海洋技术大会暨国际海洋技术会展期间启动组织招聘会,汇集海洋界精英,支援企业及机构成长的人才需求,为莘莘学子开启海洋事业的成功之路!参加会展的单位通过OT海洋人才荟平台发布招聘信息。欢迎海洋界精英今天就免费注册(展位C060),成为海洋人才荟的个人会员,也可以把个人履历发到OT海洋人才荟。OT海洋人才荟将于OT 2021后继续完善配对范围,为海科人才实现事业的理想!请密切注意现场发布的招聘信息。

OceanTech Talent Club was established in 2019, with an objective to serve the industry's growth demand. Anchoring on China International Ocean Technology Conference and OceanTech Program, OceanTech Talent Club organizes recruitment activities to serve the community by gathering the talents aspiring a dream career.

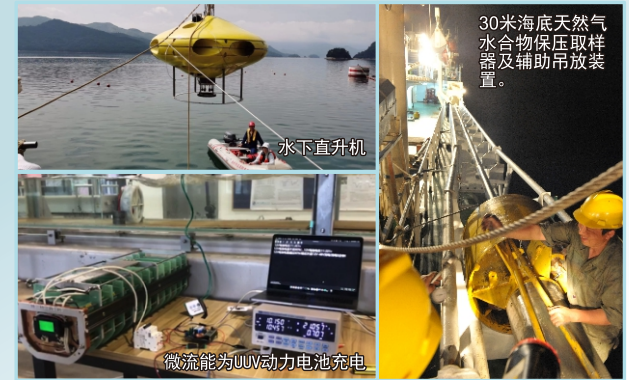
Job vacancies will be posted live through OT 2021



关注我们



浙江大学海洋学院海洋技术成果展  
Ocean College, Zhejiang University R&D Showcase



展示浙江大学海洋学院一系列最新的学术与应用研究成果,为从事海洋技术及其装备研究的单位和研究人员搭建学术交流与合作的平台。

Showcasing an array of the latest academic and applied research accomplishments of Ocean College, Zhejiang University. Its mission is to build a platform for academic exchange and cooperation for institutions and researchers engaged in ocean technology and applications research.

**展位: E101**

水下直升机  
Autonomous Underwater Helicopter-AUH  
联系人: 黄豪彩  
电子邮箱: hchuang@zju.edu.cn

“水下直升机”项目是浙江大学主持的国家重点研发计划项目。水下直升机是一种灵活性强,具有海底至海底工作模式的新型潜水器,在海底实现定点悬停、全周转向和自由起降。目前已完成样机研制、实验室和水库测试,正准备开展海上试验。

The "Autonomous Underwater Helicopter" project is supported by National Key Research and Development Project, and hosted by Zhejiang University. AUH is a new type of submersible with strong flexibility. AUH's working mode is from sea bottom to sea bottom. AUH can realize fixed-point hovering, full-circle turning and free take-off and landing on the seabed. At present, AUH prototype development, laboratory and reservoir testing have been completed, and sea trials are being prepared.

**展位: E103**

钻探岩心样品保压转移技术  
Technology for Pressure-Retaining Transfer of Core Samples for Drilling  
联系人: 陈家旺  
电子邮箱: arwang@zju.edu.cn

针对我国天然气水合物勘探及试采对水合物高质量岩心、高精度检测技术与装备的需求,浙江大学陈家旺教授及其团队开展了钻探岩心样品保压转移技术与装置的研究,解决了海底钻机保压钻具传送对接、岩心长行程保压转移、岩心保压切割、介质压力维持与温度控制等技术难题,填补了国内在该技术领域的空白。相关技术与成果已于2021年4月1日-4月15日在南海北部海域进行了两次钻探岩心样品保压转移试验,证明了该技术与装置的可靠性。该装置用于2021年4月-5月在南海神狐海域及琼东南海域开展水合物区示范应用,将有效推动我国水合物勘探及试采事业的进程。(可燃冰海底地层钻探机器人、沉积物(含上覆水)保真取样器、深渊生物资源采样技术研究)

In response to the demand for high-quality hydrate cores, high-precision detection technology and equipment for natural gas hydrate exploration, Professor Chen Jiawang of Zhejiang University with his team carried out researches on pressure-retaining transfer technology and equipment for drilling core samples, and solved many technical problems such as pressure-retaining drilling tool transfer and docking, core long-stroke pressure-retaining transfer, core pressure-retaining cutting, medium pressure maintenance and temperature control, all of these have filled the gaps in this technical field in China. Relevant technologies and equipment have been used in two pressure-retaining transfer tests of drilling core samples in the northern South China Sea from April 1st to April 15th, 2021, which proved the reliability of the technique and equipment. In addition, the equipment will also be used in the hydrate area for pilot application in the

Shenhu area and Qiong Southeast area of South China Sea from April to May, 2021, which will effectively promote the process of China's hydrate exploration and trial mining. (Intelligent Drilling and Exploration Robot for Natural Gas Hydrate Subsea Stratum, Sediment - including overlying water - fidelity sampler, Research on sampling technology of abyssal biological resources)

### 展位: E105

海洋能装备技术  
Marine Renewable Energy  
联系人: 张大海  
电子邮箱: zhangdahai@zju.edu.cn

作为海洋产业的新兴领域, 海洋可再生能源(海洋能)近年来备受关注。作为全球最大的能源消费国, 中国目前正在不断加大可再生能源的开发力度, 并提出了更高的绿色能源占比目标, 近期提出“二氧化碳排放量力争于2030年前达到峰值, 力争于2060年前实现碳中和”等目标承诺, 而包括波浪能、潮流能和海上风电在内的海洋能也是其中重要一环。实现可再生能源转型, 不仅能够减缓气候变化, 还可刺激经济、改善人类福祉和促进全球健康发展。

Ocean renewable energy (ORE) is notable as an emerging sector of the maritime industry. China, the world's biggest energy consumer, is stepping up its push into renewable energy and proposing higher green power consumption targets, including in the ORE area. Achieving the needed renewable energy transition will not only mitigate climate change, but also stimulate the economy, improve human welfare and boost employment worldwide.

### 展位: E107

中国蓝碳战略与机遇  
Opportunities for Blue Carbon Strategies in China  
联系人: 吴嘉平、李丹  
电子邮箱: Danl@zju.edu.cn

蓝碳战略是指通过保护和恢复红树林、盐沼和海草生态系统, 以及扩大海藻养殖等海洋相关碳汇手段, 最终实现减缓气候变化的目的。中国在《巴黎协定》下的承诺, 为中国发展强大的蓝碳项目提供了独特的机会和必要性。蓝碳战略在中国仍有充分发展潜力, 特别是通过适应气候变化带来的好处, 如海岸保护和海藻养殖的生态环境协同效益, 如为鱼类和其他生物创造栖息地, 缓解富营养化、缺氧和酸化, 与陆上生产相比, 产生对环境影响较小的直接和增值产品。在此基础上, 我们提出了适应中国特色和能力的加方战略路线图。

Blue Carbon (BC) strategy refers to the approaches that mitigate and adapt to climate change through the conservation and restoration of seagrass, saltmarsh and mangrove ecosystems and, in some BC programs, also through the expansion of seaweed aquaculture. The major losses of coastal habitats in combination with the commitments of China under the Paris Agreement provide unique opportunity and necessity to develop a strong Chinese BC program. We conclude that BC strategies have potentials yet to be fully developed in China, particularly through climate change adaptation benefits such as coastal protection and eco-

environmental co-benefits of seaweed farming such as habitat creation for fish and other biota, alleviation of eutrophication, hypoxia and acidification, and the generation of direct and value added products with lower environmental impact relative to land-based production. On this basis, we provide a roadmap for BC strategies adjusted to the unique characteristics and capacities of China.

### 展位: E109

小型化水声网络通信机  
Mini-Underwater Acoustics Network Modem  
联系人: 翟逢重  
电子邮箱: jimqufz@zju.edu.cn

本项目所研发的小型化水声网络通信机是一款智能化程度高、适用范围广的便携式水下无线网络通信设备。小型化的设计使其适用于各类水下机器人/潜器、传感器节点、蛙人等水下平台。自适应调制方式的切换和数据重传机制使其对工作环境的适应性更强。该型通信机重量约1kg, 尺寸为 $\phi 6.5\text{cm} \times 35\text{cm}$ , 但发射功率却可达到50瓦。待机休眠模式功耗约1mW, 浅海环境下实测有效传输距离不小于2.6km, 最大通信净速率约3kbps。可以实现文本、文件和任意波形的传输。内置的MAC协议最多允许64个节点接入同一子网。

The mini-underwater acoustic network modem is a portable underwater wireless network communication device with high degree of intelligence and wide range of application. The miniaturization design makes it suitable for most of underwater robots/submersers, sensor nodes, frogman and other underwater platforms. The intelligent modulation and retransmission control make it more robust to the complex application environment. This type of modem weighs about 1kg, the size is  $\phi 6.5\text{cm} \times 35\text{cm}$ , but the maximum transmitting power can reach 50W. The power consumption in sleep mode is less than 1mW. The effective transmission distance in shallow water environment can reach 2.6km, and the maximum net data rate is about 3kbps. It can transmit text, files and arbitrary waveform. The built-in MAC protocol allows up to 64 nodes to access the same subnet. The adaptive retransmission function for error data improves the reliability of transmission.

### 展位: E110

水下无线光通信技术  
Underwater Wireless Optical Communication  
联系人: 徐敏  
电子邮箱: jxu-optics@zju.edu.cn

海洋在国际政治、经济、军事、外交中的地位日益凸显, 海洋问题已成为国家发展的战略问题。与传统水声通信相比, 水下无线光通信技术具有带宽高、抗干扰能力强、功耗低、体积小等优势, 将在海洋探测、海洋环境监测和海洋资源开发等领域发挥重要作用, 已成为世界各国竞相发展的重要通信技术之一。基于蓝绿光的光通信技术可为实时、高速的近距离水下无线通信提供强大的技术支撑

The status of the ocean in the international politics,

economy, military affairs and diplomacy has become increasingly prominent and ocean related issues have become strategically important for the development of a country. Compared with traditional underwater acoustic communication, underwater optical communication technology has the advantages of high bandwidth, strong anti-interference ability, low power consumption and small volume. It will play an important role in the field of marine environmental monitoring and marine resources exploitation. As one of the important communication technologies, all the countries in the world are racing to develop it, which can provide strong technical support for realtime, high-speed and short-range underwater wireless communication.

### 展位: E112

海底有缆在线观测系统及传感器  
Submarine Cable Online Observation System and its Sensors  
联系人: 姜庆岩  
电子邮箱: jqy0610@zju.edu.cn

海底有缆在线观测系统采用CAN总线方式实现水下仪器的分布式模块化设计, 利用海底电缆解决水下观测设备的能源供给和信息传输, 实现海洋环境要素的实时观测。海底有缆观测系统可以集成海流计、波浪仪、CTD、潮位仪、多参数水质仪、摄像头、水听器、OBS等多种观测仪器, 实现海洋环境中温度、盐度、潮位、海流、海浪、溶解氧、叶绿素、营养盐、pH值、浊度、多环芳烃、海啸、地震等要素以及水下声学信号与水下高清视频的长期连续在线观测。

The submarine cable online observation system uses CAN bus to realize the distributed modular management of underwater instruments, uses submarine cable to solve the energy supply and information transmission of underwater observation equipment, and realizes the real-time observation of marine environmental elements. The underwater observation system can integrate many kinds of observation facilities, such as current meter, wave gauge, CTD, tide gauge, multi-parameter water quality analyzer, camera, hydrophone, OBS and so on, to achieve long-term continuous online monitoring of temperature, salinity, tide level, ocean current, wave, dissolved oxygen, chlorophyll, nutrients, pH value, turbidity, PAHs, tsunami, earthquake and other elements in the Marine environment, as well as underwater acoustic signals and high definition video.

### 展位: E114

“海蜇号”小型无人水下实验平台  
Small Unmanned Underwater Experimental Platform  
联系人: 冀大雄  
电子邮箱: jidaxiong@zju.edu.cn

水下机器人是一门理论与实验相结合的学科, 其关键问题/技术的研究逐渐成为当前海洋、自动化、人工智能等领域的热点。然而, 目前还缺乏一种通用的小型化水下机器人实验平台为科学研究提供测试和验证手段。设计了一种四旋翼轻量化小型水下机器人, 搭载了磁罗盘、IMU、深度、摄像头、

GPS/北斗等传感器, 具有遥控/自动航行功能, 可采集多种航行和导航数据。提出了基于深度学习的水下机器人故障诊断算法以及小微尺度精细导航算法, 并在“海蜇号”上进行了数据采集和实际实验, 验证了“海蜇号”实验平台的有效性、便携性和实用性。

Underwater vehicle (AUV) is a subject combining theory with experiment. The research of its key problems/technologies has gradually become a hot spot in the field of ocean, automation, artificial intelligence and so on. However, there is still a lack of a general miniaturized underwater vehicle experimental platform to provide testing and verification means for scientific research. A four rotor lightweight small underwater robot is designed, which is equipped with magnetic compass, IMU, depth sensor, camera, GPS/Beidou and other sensors. It has remote control/automatic navigation function and can collect a variety of navigation and navigation data. A fault diagnosis algorithm based on deep learning and a small micro scale fine navigation scheme are proposed. Data acquisition and practical experiments are carried out on jellyfish to verify the effectiveness, portability and practicability of the platform.

### 展位: E116

极地海冰/海洋光学观测技术  
Observation of the Polar Sea Ice/Ocean Using Optical Technology  
联系人: 王杭州  
电子邮箱: hangzhouwang@zju.edu.cn

近几十年来北极海冰正发生快速变化, 其中太阳辐射是重要的驱动因素之一。该技术到目前已经发展了3代。前2代, 基于光纤光谱技术, 将多个光纤探头放置到冰内不同深度收集和传输太阳辐射, 采用一个光谱仪的方式获得冰内多个层位太阳辐射。第3代, 基于光纤光谱技术, 把一个透明舱体放置到冰内钻孔中将冰内太阳辐射信号透射到舱体内, 采用一个可以在舱内自由上下移动的光谱仪进行测量, 从而获得冰内太阳辐射剖面。该技术的发展, 为科学研究提供了宝贵的冰内太阳辐射剖面长期连续数据。

The Arctic sea ice is undergoing rapid changes during the recent decades, and solar radiation is one of the important driving factors. The observation technology has been developed for 3 generations so far, based on the fiber optic spectrometry. In the first two generations, multiple optical fiber probes were placed at different depths of the sea ice to collect and transmit solar radiation signals, which were sensed by a spectrometer. In the third generation, a transparent cabin was deployed within a borehole drilled in the sea ice, to transmit solar radiation signals from the sea ice to the cabin. A spectrometer that can move up and down freely in the cabin, were adopted to measure the signals to obtain the solar irradiance profile in the sea ice. The development of this technology provides valuable long-term time-serial solar irradiance profile data within the sea ice for the scientific research.

展位: E117

人工上升流/下降流技术  
Technologies on Artificial Upwelling and Downwelling  
联系人: 樊炜  
电子邮箱: wayfan@zju.edu.cn

近年来,随着外源营养盐输入的增加和内源营养盐的积累,近海生态环境逐渐恶化,如何改善近海环境成为科学家们研究的热点。海洋人工上升流/下降流技术作为一种地球工程手段,通过放置人工装备,增强海水混合,达到增加初级生产力,缓解水体缺氧,以及提高海洋碳汇的效果。浙江大学研究团队针对人工上升流/下降流技术开展了理论与海域试验研究。先后提出了浅层注气概念、上升流羽流控制技术以及篷布式下降流装备,并进行了海域试验验证。研究结果为我国人工上升流/下降流技术的实施提供了有效的解决方案。

In recent years, with the increase of exogenous nutrients import and the accumulation of endogenous nutrients, coastal ecological environment has gradually deteriorated. How to improve the coastal environment has become a major research topic for scientists. As a geoengineering method, artificial upwelling and/or downwelling can effectively increase primary productivity, reduce hypoxia, and improve the capacity of marine carbon sinks by placing artificial equipment to enhance water-mixing. The research team of Zhejiang University has been working on theoretical and experimental studies on artificial upwelling/downwelling technology. Researches on shallow-water air injection, upwelling plume control and tarpaulin-based downwelling equipment have been carried out and sea trials were done. The results and data can support studies on artificial upwelling and downwelling technology in China.

展位: E118

智能海洋视觉实验室  
Smart Ocean Vision Lab  
联系人: 宋宏  
电子邮箱: hongsong@zju.edu.cn

本课题针对目前水下光谱相机体积较大,不易在海中部署这一问题,提出了基于光谱重建的小型凝视型水下光谱成像系统,围绕这一目标,先后完成了小型水下光谱相机样机设计并制作、基于Munsell色卡的水下光谱反射率数据集构建和针对小型水下光谱相机的光谱重建算法开发。

Aiming at the problem that the current underwater spectral camera is large and not easy to deploy in the sea, this paper puts forward a small gaze-based underwater spectral imaging system based on spectral reconstruction, and around this goal, has completed the prototype design and production of small underwater spectral camera, the construction of underwater spectral reflectivity data set based on Munsell color card and the development of spectral reconstruction algorithm for small underwater spectral camera.

展位: E119

低轨海洋宽带通信阵列  
Marine Broadband LEO Communications

联系人: 宋春毅  
电子邮箱: cysong@zju.edu.cn

低轨卫星通讯是实现海洋宽带通讯的最有效的手段。而低轨宽带通信芯片则是决定卫星互联网产业链自主可控与否的关键核心器件,属于卡脖子技术。本项目围绕国内目前尚未见产品的低轨卫星宽带通信芯片和低功耗低成本相控阵终端系统的产业化开展技术攻关,从芯片到阵列系统实现“补强已有产业链,延伸新兴产业链”,旨在研发可用于海洋宽带通讯互联网的核心元器件和关键技术。

Low-Earth-Orbit (LEO) Satellite Communication is one of the most efficient approaches for broadband marine communications. Among the LEO satellite communication system, phase array chips play a critical role. Lacking these key technologies could delay the applications of LEO satellite communication and impose a show stopper to broadband marine communications. This project focuses on the development of key technologies, such as phase array chips and systems, for LEO satellite communication terminals, aiming to offer high performance and low cost chips and arrays for the future broadband marine communications.

展位: E120

水下定位导航与集群探测  
Underwater Localization, Navigation, and Mobile Sensing  
联系人: 黄善和  
电子邮箱: davidhuang@zju.edu.cn

项目针对小型水下载体进行集群探测所需的定位、导航、探测一体化设计提出一系列的架构与设计,包含高度整合的载台运动导航系统及水下超短基线/逆超短基线定位系统;项目并展示了数种可进行移动探测的载荷,如悬浮泥沙浓度测量系统、海底气泡羽流侦测声纳、高频参量阵浅地层剖面声纳系统等。一体化设计的载台与载荷针对的应用场景如:北极海冰下观测、黄河悬浮泥沙含量移动量测、天然气水合物开采井周遭地层探测与气体泄漏探测等。

项目实现了可进行多核通信的高效异质计算架构、高度整合的软硬件系统与高性能算法,所展示的水下逆超短基线定位系统可进行被动式单向时间同步,适合安装于移动载具上进行集群协同观测应用。

System architecture and design scheme are proposed for localization, navigation and cooperative sensing in a grouped small-AUV. Scalable AUV hardware/software platform with integrated iUSBL system is also demonstrated. We also present various payloads suitable for mobile underwater sensing including multi-frequency acoustic backscatter system for suspended sediment concentration measurement, bubble plume detection SONAR, and parametric array for sub-bottom profiling. The main features of these systems include high performance heterogeneous computing platform with inter-processor communication capability, highly integrated system architecture and high-performance algorithms. The demonstrated iUSBL system is capable of passive one-way-travel-time measurement and hence suitable for grouped AUV in cooperative sensing applications.

# “我的海洋梦” 分享会

2021年5月18日15:30-17:00

智海楼: 145室

我当初是如何逐浪大海的?

我对我的海洋事业有什么期待?

大海给了我什么?

主持人溪流先生

与来自不同背景的海洋界翘楚侃侃而谈  
追忆当初各自的梦想



5月18日下午,大会将举行“我的海洋梦”分享会,正式启动OT人才荟的招聘活动,大会邀请劳雷工业总裁及始创人方励先生、西北工业大学航海学院院长潘光教授及浙江大学海洋学院海洋工程与技术研究所副所长张大海教授作为特别嘉宾,与海洋界的明日之星分享投入海洋事业的亲身体验、奋斗历程与对未来这个领域的思路,为广大的年轻人进军海洋事业导航!欢迎参加我的海洋梦分享会。

“昨天我们逐浪大海,扬起了属于你我的缤纷浪花……  
今天我们的成就承载你明天的梦想!”

“我的海洋梦”分享会启动OT 2021在全国海洋技术大会暨国际海洋技术会展期间与所有参展单位共同举办连续4天的OT人才荟招聘日(5月18-21日)作为OT 2021的重要板块之一。



方励先生  
劳雷工业总裁及始创人

潘光教授  
西北工业大学航海学院院长

张大海教授  
浙江大学海洋学院海洋工程与技术研究所副所长



OT海洋人才荟 OceanTech Talent Club

OT海洋人才荟招聘日

OT海洋人才荟于2019年启动，在全国海洋技术大会暨国际海洋技术会展期间启动组织招聘会，汇集海洋界精英，支援企业及机构成长的人才需求，为莘莘学子开启海洋事业的成功之路！参加会展的单位通过OT海洋人才荟平台发布招聘信息。欢迎海洋界精英今天就免费注册（展位C060），成为海洋人才荟的个人会员，也可以把个人履历发到OT海洋人才荟邮箱：oceanalent@together-expo.com.cn OT海洋人才荟将于OT 2021后继续完善配对范围，为海科人才实现事业的理想！



OT WebTrain划开信息的云，远程观摩最新技术装备的应用，了解国际产品市场

OT海洋人才荟推出OT Webtrain，收集全球海洋技术装备的供应商举办的网上产品培训及技术交流信息，制成观摩的时间表，让业界掌握产品信息，建立技术装备目录，设想项目设计方案的可能性，网罗合作目标群；也为技术研究者提供信息库。

OT WebTrain 国际网上培训时间表

(注：培训以英文操作中文翻译仅供参考，部分以完成的培训组织者已经提供录屏培训视屏)

主办者 Organizer	线上培训 Webinar	时间表 Schedule	链接 Link
RBR	RBR's weekly webinars every Wednesday. Learn about new instruments, applications, and methods! RBR 新仪器, 新应用, 新方法 (逢周三进行培训) (Free 免费)	Every Wednesday	<a href="https://rbr-global.com/about-rbr/webinars">https://rbr-global.com/about-rbr/webinars</a>
Quality Positioning Services(QPS)	QPS weekly webinar 荷兰 QPS 每周培训 (Free 免费)	Weekly	<a href="https://www.qps.nl/webinars/">https://www.qps.nl/webinars/</a>
European Marine Board (EMB)	Policy Brief 9 on Sustained Ocean Observation Infrastructure 关于可持续海洋观测基础设施的政策简报 9 (Free 免费)	17 June 2021: 13:00 - 14:00 Central European Summer Time	<a href="https://www.marineboard.eu/science-webinars">https://www.marineboard.eu/science-webinars</a>
Seequent	SIGMA/W Material Model Series: Hardening Soil Model SIGMA/W 材料模型系列: 硬化土模型 (Free 免费)	16 June 2021 @ 10:00 to 11:00 and 18:00 to 19:00 Central Standard Time	<a href="https://www.seequent.com/event/sigma-w-material-model-series-hardening-soil-model/">https://www.seequent.com/event/sigma-w-material-model-series-hardening-soil-model/</a>
Seequent	Leapfrog Geo Fundamentals – Remote 远程基础知识 (900 加元)	15 June 2021 @ 8:30 to 18 June 2021 @ 12:30 Pacific Daylight Time	<a href="https://www.seequent.com/event/leapfrog-geo-fundamentals-remote-15-june-2021/">https://www.seequent.com/event/leapfrog-geo-fundamentals-remote-15-june-2021/</a>
Seequent	Target for ArcGIS Pro Remote Fundamentals 远程基础知识的目标 (450 澳元+税)	15 June 2021 @ 9:00 to 16 June 2021 @ 13:00 Australian Western Standard Time	<a href="https://www.seequent.com/event/target-for-arcgis-pro-remote-fundamentals-15-june-2021/">https://www.seequent.com/event/target-for-arcgis-pro-remote-fundamentals-15-june-2021/</a>
Unmanned System Technology	LIDAR for Drone 2021 – Drone User Conference 适用于 2021 年无人机的 LIDAR – 无人机用户大会 (Free 免费)	9-Jun-21	<a href="https://www.unmannedsystemstechnology.com/webinars/lidar-for-drone-2021-drone-user-conference/">https://www.unmannedsystemstechnology.com/webinars/lidar-for-drone-2021-drone-user-conference/</a>
Seequent	Oasis montaj Fundamentals – Remote 远程基础知识 (450 加元)	8 June 2021 @ 8:30 to 9 June 2021 @ 12:30 Pacific Daylight Time	<a href="https://www.seequent.com/event/oasis-montaj-fundamentals-remote-8-june-2021/">https://www.seequent.com/event/oasis-montaj-fundamentals-remote-8-june-2021/</a>
Unmanned System Technology	Robotics-Assisted Surgery: Critical Challenges and Robotics Opportunities 机器人辅助手术: 关键挑战和机器人机会 (Free 免费)	3 June 2021 @ 13:00 to 14:00 Central Standard Time	<a href="https://gateway.on24.com/wcc/experience/elitewtwhmedia/2927718/2957306/robobusiness?partnerref=echoblu">https://gateway.on24.com/wcc/experience/elitewtwhmedia/2927718/2957306/robobusiness?partnerref=echoblu</a>
Teledyne Marine	BlueView 3D Training Series: Point Cloud Post-Processing Walkthrough BlueView 3D 培训系列: 点云后处理演练 (Free for Business Use 免费供企业使用)	June 3, 2021 11:00 - 11:45 Eastern Daylight Time 15:00 - 15:45 Greenwich Mean Time	<a href="https://go4.teledynemarine.com/807113/2021-03-22/2z2xm">https://go4.teledynemarine.com/807113/2021-03-22/2z2xm</a>
Seequent	Leapfrog Geo Remote Fundamentals 远程基础知识 (900 澳元+税)	1 June 2021 @ 9:00 to 4 June 2021 @ 13:00 Australian Western Standard Time	<a href="https://www.seequent.com/event/leapfrog-geo-remote-fundamentals-1-june-2021/">https://www.seequent.com/event/leapfrog-geo-remote-fundamentals-1-june-2021/</a>

主办者 Organizer	线上培训 Webinar	时间表 Schedule	链接 Link
Seequent	Central Remote Fundamentals 中央远程基础 (200 澳元+税)	27 May 2021 @ 9:00 to 13:00 Australian Western Standard Time	<a href="https://www.seequent.com/event/central-remote-fundamentals-27-may-2021/">https://www.seequent.com/event/central-remote-fundamentals-27-may-2021/</a>
Teledyne Marine	BlueView 3D Training Series: Introduction to Proscan Software BlueView 3D 培训系列: Proscan 软件简介 (Free for Business Use 免费供企业使用)	May 27, 2021 11:00 - 11:45 Eastern Daylight Time 15:00 - 15:45 Greenwich Mean Time	<a href="https://go4.teledynemarine.com/807113/2021-03-22/2z2xk">https://go4.teledynemarine.com/807113/2021-03-22/2z2xk</a>
Association for Unmanned Vehicle Systems International (AUVSI)	ADDRESSING THE CHALLENGES OF SYSTEM CERTIFICATION FOR THE NEXT GENERATION OF AUTONOMOUS FLYING VEHICLES 解决下一代自动驾驶汽车的系统认证挑战 (Free 免费)	MAY 26, 2021 - 15:00 TO 16:00 Eastern Standard Time	<a href="https://www.ausmembers.org/eweb/DynamicPage.aspx?WebCode=LoginRequired&amp;expires=yes&amp;Site=AUVSI2017">https://www.ausmembers.org/eweb/DynamicPage.aspx?WebCode=LoginRequired&amp;expires=yes&amp;Site=AUVSI2017</a>
Seequent	SRK Masterclass – Applied Structural Geology for Mining, Resource and Exploration Geologists – Remote SRK 大师班—采矿, 资源和勘探地质学家的应用结构地质—远程 (450 欧元)	26 May 2021 @ 9:00 to 28 May 2021 @ 13:00 British Summer Time	<a href="https://www.seequent.com/event/srk-masterclass-applied-structural-geology-for-mining-resource-and-exploration-geologists-remote-13-april-2021/">https://www.seequent.com/event/srk-masterclass-applied-structural-geology-for-mining-resource-and-exploration-geologists-remote-13-april-2021/</a>
Seequent	Leapfrog Geo Advanced – Geological & Numeric Modeling – Remote 地质和数字建模—远程 (900 加元)	25 May 2021 @ 8:30 to 28 May 2021 @ 12:30 Pacific Daylight Time	<a href="https://www.seequent.com/event/leapfrog-geo-advanced-geological-numeric-modeling-remote-25-may-2021/">https://www.seequent.com/event/leapfrog-geo-advanced-geological-numeric-modeling-remote-25-may-2021/</a>
Seequent	Target Fundamentals Remote 目标基础远程 (900 加元)	25 May 2021 @ 8:30 to 28 May 2021 @ 12:30 Pacific Daylight Time	<a href="https://www.seequent.com/event/target-fundamentals-remote-25-may-2021/">https://www.seequent.com/event/target-fundamentals-remote-25-may-2021/</a>
Seequent	Leapfrog Works Remote Fundamentals 远程基础知识 (900 澳元+税)	25 May 2021 @ 9:00 to 28 May 2021 @ 13:00 Australian Eastern Standard Time	<a href="https://www.seequent.com/event/leapfrog-works-remote-fundamentals-25-may-2021/">https://www.seequent.com/event/leapfrog-works-remote-fundamentals-25-may-2021/</a>
Unmanned System Technology	Seamless time synchronisation with survey products using Precision Time Protocol (PTP) 使用精确时间协议 (PTP) 与调查产品实现无缝时间同步 (Free 免费)	25 May 2021 @ 22:15 to 23:00 Central Standard Time	<a href="https://register.gotowebinar.com/rt/7806416422825949196">https://register.gotowebinar.com/rt/7806416422825949196</a>
Teledyne Marine	BlueView 3D Training Series: Deployment Platforms, Sonar Selection & Considerations BlueView 3D Training 系列: 部署平台, 声纳选择和注意事项 (Free for Business Use 免费供企业使用)	May 20, 2021 11:00 - 11:45 Eastern Daylight Time 15:00 - 15:45 Greenwich Mean Time	<a href="https://go4.teledynemarine.com/807113/2021-03-22/2z2wm">https://go4.teledynemarine.com/807113/2021-03-22/2z2wm</a>
iXblue	Transitioning to remote hydrography: challenges and opportunities 过渡到远程水文学: 挑战与机遇 (Free 免费)	May 20, 2021 10:00 & 17:00 Central European Summer Time	<a href="https://www.ixblue.com/newsroom/ixlive">https://www.ixblue.com/newsroom/ixlive</a>
European Marine Boards	BIG DATA AND OCEAN CO2 MEASUREMENTS 大数据和海洋二氧化碳测量 (Free 免费)	20 May 2021 @ 13:00 - 14:00 Central European Summer Time	<a href="https://www.marineboard.eu/events/emb-science-webinar-big-data-and-ocean-co2-measurements">https://www.marineboard.eu/events/emb-science-webinar-big-data-and-ocean-co2-measurements</a>
Wartsila	Integrated drive train solutions for high speed craft 适用于高速船的集成传动系统方案 (Free 免费)	19 May, 2021 - 13:00 Central European Time	<a href="https://www.wartsila.com/insights/webinar/waterjets-integrated-drive-train-solutions-for-high-speed-craft">https://www.wartsila.com/insights/webinar/waterjets-integrated-drive-train-solutions-for-high-speed-craft</a>
Seequent	Management & Monitoring of Tailings Storage Facilities 尾矿库的管理与监控 (Free 免费)	19 May 2021 @ 10:00 to 11:00 Pacific Daylight Time	<a href="https://www.seequent.com/event/management-monitoring-of-tailings-storage-facilities-19-may-2021/">https://www.seequent.com/event/management-monitoring-of-tailings-storage-facilities-19-may-2021/</a>
Association for Unmanned Vehicle Systems International (AUVSI)	ENABLING BVLOS 启用 BVLOS (Free 免费)	MAY 19, 2021 - 15:00 to 16:00 Eastern Standard Time	<a href="https://www.ausmembers.org/eweb/DynamicPage.aspx?WebCode=LoginRequired&amp;expires=yes&amp;Site=AUVSI2017">https://www.ausmembers.org/eweb/DynamicPage.aspx?WebCode=LoginRequired&amp;expires=yes&amp;Site=AUVSI2017</a>

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# THANK YOU

感谢您支持2021国际海洋技术会展！热烈期待2023年与你再度逐浪舟山！

Thanks you for supporting OceanTech Program 2021. See you at OT 2023!



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汇显展览有限公司  
Together Expo Limited  
电话: 86-10-8451 0267  
Tel: +852 2881 5889  
邮箱: merryyin@together-expo.com.cn  
Email: info@together-expo.com



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