

Research Group for the Capacity Building of Deep-sea Research, Institute of Oceanology, Chinese Academy of Sciences

This research group has been devoted to the capacity building of deep sea research for more than 10 years, built state-of-the-art multidisciplinary deep-sea exploring and research platform, established technical talent team and deep sea research team. These achievements promoted the building of a series of new generation research vessels and development of marine equipment in China. This group has been working on the sea for more than 640 days with this platform in the last 3 years, sailing 76000 nautical miles, the ROV "Discovery" has successfully made 56 dives, piles of deep sea environment data and samples were collected and a series of new scientific discoveries were achieved. The major innovative achievements have laid a solid foundation for further development of Chinese deep-sea science and technology and made contribution to the world deep sea exploration.

Outstanding contributors of this research group

Sun Song

Team leader and organizer of the research group, chief scientist for the research project.

Li Tiegang

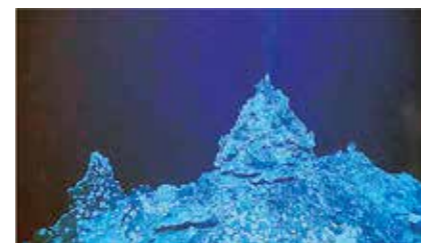
He is responsible for organizing project proposal, determining technological specifications and system integration. He also organized deep-sea exploration and research activities.

Yu Jianjun

He is responsible for guiding the optimization design of hull lines, comprehensive layout for modern ship cabin. He created overall design specifications and all kind design standards for all non-standard assembly units, management on engineering quality and quality control systems.



原位观测甲烷从海底溢出
In situ observation on the methane release from the seafloor



原位观测热液喷口
In situ observation on the hydrothermal vents



深海生物取样
Biological sampling in the deep sea



深海岩石取样
Rock sampling in the deep sea

Other members

Sui Yiyong
Kong Xiancai
Zhang Shaojing
Liu Heyi
Liu Changjie
Shi Mingjin
Sun Zongqiang
Wang Yong
Ren Jianming
Yin Hong
Li Chaolun
Zeng Zhigang
Yu Fei
Zhang Xin
Wu Gang
Yan Fang
Yang Changwu



航行中的“科学”号
“KEXUE” vessel on voyage

深海探测与研究平台体系建设研究集体

研究集体推荐单位：中国科学院海洋研究所

研究集体主要科技贡献：

历时 10 年，完成我国新一代科学考察船、深海装备体系、技术体系和人才队伍体系建设，建成国际一流水平的深海探测与研究综合平台，突破我国深海探测与研究领域技术与装备瓶颈，使我国深海探测与研究能力跨入世界先进国家

行列，引领我国新一代科学考察船建设，带动我国海洋装备技术体系发展。建成三年来，“科学”号海上科考 640 余天、航行 7.6 万海里，取得大量宝贵的多学科调查数据资料；“发现”号深潜器成功下潜 56 次，获得高精度深海极端环境信息、地质和生物样品及系列重要科学发现，成功开展了深海原位观测和现场研究，为我国深海探测与研究跻身国际前沿并向纵深发展打下了坚实基础。

研究集体突出贡献者



孙松 Sun Song

孙松 中国科学院海洋研究所

主要科技贡献：深海探测与研究平台体系建设的倡导者、组织者与领导者。部署一系列深海科研任务，推动深海探测与研究跨越式发展。



李铁刚 Li Tiegang

李铁刚 中国科学院海洋研究所

主要科技贡献：组织项目建议、可行性研究、设计、建造和运行，探测技术指标确定和系统集成，组织开展深海探测与研究。



于建军 Yu Jianjun

于建军 中国科学院海洋研究所

主要科技贡献：指导设计新的船舶线型、现代化船舶舱室综合布局，制定总体设计规范和各种非标准件设计标准、工程质量管理 and 质量控制体系。

研究集体主要完成者

隋以勇 孔宪才 张绍京 刘合义 刘长杰 石铭金 孙宗强 王勇 任建明 尹宏 李超伦 曾志刚 于非 张鑫 吴刚 颜芳 杨昌武



国际一流深海综合探测能力
State-of-the-art multidisciplinary exploring capability on deep-sea research



英国“自然”杂志两次跟踪报道：
……“科学”号是最先进的海洋科学基础研究和技术研发移动平台，尤其是深海研究；
……中国的深海大洋研究是600年前郑和下西洋之后中国人的又一个创举。
Nature News and comments highlight the works of “KEXUE” vessel:
“It is a state-of-the-art moving laboratory for fundamental and technological development in marine science, especially deep-sea research.”
“Six centuries ago, Chinese explorer Zheng He set sail into the Pacific Ocean…… that extended China’s maritime influence from Indonesia to the Red Sea. China’s latest foray into the Pacific will be smaller but much more advanced.”