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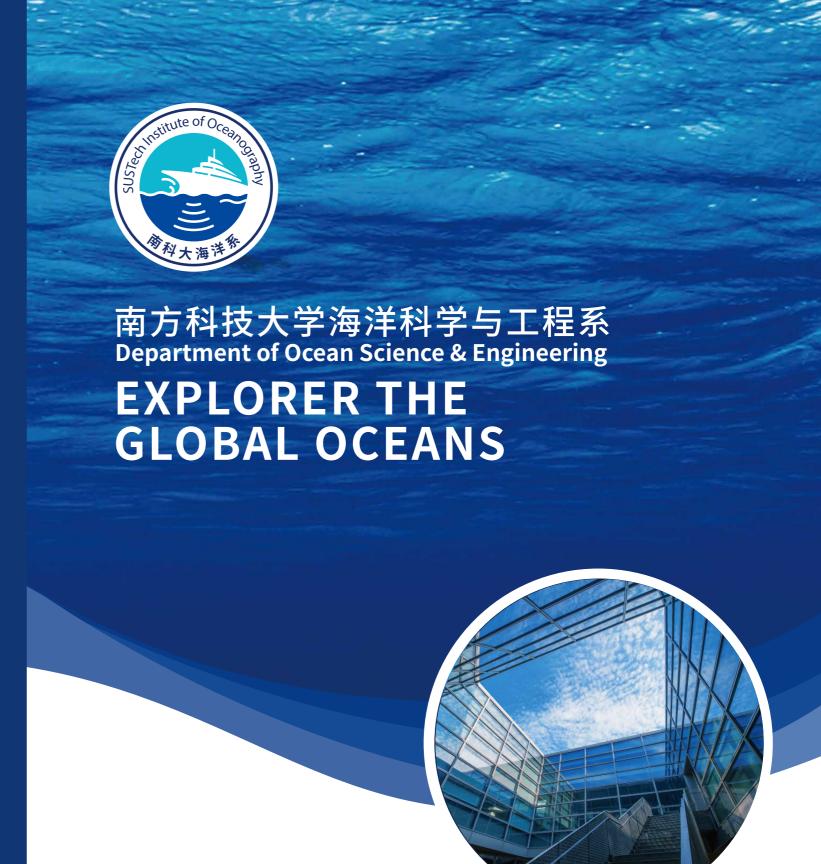
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| <mark>关于本系</mark> | ABOUT THE | DEPARTMENT

海洋科学与工程系自2015年12月创系以来,凝聚了国内外优势的科研力量,致力于在重大国际海洋科学与海洋工程问题上取得突破性研究成果。海洋科学与工程系建系目标是成为国际知名的海洋科学与工程研究基地和国际化、高层次深海研究人才培养基地。海洋科学与工程系始终把海外人才引进和具有国际视野的高水平师资队伍建设放在首位,截止到2020年6月,海洋科学与工程系有教学科研序列讲席教授6名,教授2名,副教授1名,助理教授10名,研究序列教师15名,其中包括教育部特聘教授2人,国家"杰青"2人,"百人计划"1人。

目前,海洋科学与工程系已获批了南方海洋科学与工程广东省实验室(广州)深圳分部和三个深圳市重点实验室:深圳市发改委资助建设的深圳海底地震仪设备与技术工程实验室和深圳海洋油气钻采装备与管缆工程实验室;深圳市科创委资助的深圳市海洋地球古菌组学重点实验室。

借助深圳海洋研究院提供的海洋关键技术研发平台,海洋科学与工程系将迅速建成拥有科学考察船(深圳号)、码头、以及海洋装备和工程技术实验室的多学科交叉海洋研究中心,跻身世界领先海洋研究机构行列。乘国家"进军深海"的强劲东风,为深圳建设全球海洋中心城市做贡献。

Since its establishment on December 2015, the Department of Ocean Science and Engineering (OSE) has gathered the strengths of scientific research across the globe in its commitment to achieving breakthrough scientific results in major international marine science or engineering issues. OSE aims to become an internationally renowned marine science and engineering research base that cultivate high-level talents.

The top priority for OSE has been to build up a world-class faculty. In doing so, its team is researching a range of topics such as the marine plate and internal structure of the Earth, the interaction between the ocean lithosphere and marginal sea, marine sediments and oil/gas/mineral resources, marine geological microbes, marine microbial resources, biogeochemistry, ocean circulation and climate, sea-air interaction, marine engineering technology, and marine engineering structure.

Currently, the Department of Ocean Science and Engineering has been approved a Southern Ocean Science and Engineering Guangdong Laboratory (Guangzhou) Shenzhen Branch and three key laboratories in Shenzhen: Shenzhen Key Laboratory of Ocean Bottom Seismograph Equipment and Technology Engineering, Shenzhen Key Laboratory of Marine Oil & Gas Drilling Equipment and Pipeline Engineering and Shenzhen Key Laboratory of Marine Archaea Geo-Omics.

Building upon the platform provided by the Institute of Ocean Engineering of Shenzhen, which is funded by the Shenzhen City Government, the Department of Ocean Science and Engineering will soon become an oceanographic institution equipped with a research vessel (R/V Shenzhen), a dock, and a multidisciplinary laboratory of ocean engineering, which will allow us to become in breast with the world-leading institutions of oceanography. Serving the government policy "deep sea exploration", and contributing to the construction of an Global Ocean Center City in Shenzhen.

系主任寄语 HEAD'S WORDS



陈永顺 CHEN Yongshun

生命起源于海洋,海洋约占地球面积的71%,目前为止,人类已探索的海底仅仅为5%,上天与下海,是科技界面临的两道难题,海洋学科已成为是如今科技探索的热点。

南方科技大学海洋科学与工程系自创系以来,凝聚了国内外最优势的研究力量,致力于在重大国际海洋科学问题上取得突破性研究成果。依托深圳市的优势和近海的独特地理位置,乘国家"进军深海"的强劲东风,将南科大海洋学科建设成国际知名的海洋科学和工程技术研究基地,为国家战略"一带一路"培养高层次深海研究人才。诚挚欢迎海内外学者加入我们海洋系,立足深圳,放眼全球三大洋!

The origin of life is from the ocean, and ocean accounts for about 71% of the Earth's area. So far, only 5% of the sea has been explored. "Going up to the sky" and "going to the sea" are two difficult problems faced by the scientific and technological circles. Marine science has become a hot spot of scientific and technological exploration.

Since inception of the Department of Ocean Science and Engineering of SUSTech, we has united the best research strength at home and abroad, and has made breakthroughs in the study of major international marine scientific issues. Relying on the advantages of Shenzhen and its offshore unique location, The Oceanology of SUSTech will be built into the internationally renowned marine science and engineering research base and cultivate high level deep-sea research talents for "The Belt and Road". Sincerely welcome scholars at home and abroad to join our Department of Ocean Science and Engineering, based in Shenzhen, and take a broad view of the world's three oceans!



顾问委员会ADVISORY COMMITTEE



李家彪 院士 所长 LI Jiabiao, Academician

研究方向:海底环境与地球动力学 单位:自然资源部第二海洋研究所 Research Field: Submarine environment and geodynamics The Second Institute Of Oceanography,MNR



焦念志院士 JIAO Nianzhi, Academician

研究方向:微型生物海洋学 单位:厦门大学 Research Field: Microbial Oceanography Xiamen University



陈大可院士主任 CHEN Dake, Academician

研究方向:物理海洋学 单位:自然资源部二海洋研究所卫星海洋环境动力学国家重点实验室 Research Field: Physical Oceanography State Key Laboratory of Satellite Ocean Environment Dynamics of The Second Institute Of Oceanography,MNR



戴民汉院士 DAI Minhan, Academician

研究方向:海洋碳循环 单位:厦门大学 Research Field: Marine carbon cycle Xiamen University



潘永信 院士 PAN Yongxin, Academician

研究方向:古地磁学 单位:中科院地质与地球物理研究所 Research Field: Paleomagnetic, Institute of Geology and Geophysics, CAS



蒋兴伟 院士 JIANG Xingwei, Academician

研究方向:海洋卫星工程技术 单位:自然资源部国家卫星海洋应用中心主任 Research Field: Marine satellite engineering technology National Satellite Ocean Application Service, MNR



钱培元 讲座教授 QIAN Peiyuan, Chair Professor

研究方向:海洋生物和生态学 单位:香港科技大学 Research Field: Marine Biology and Ecology The Hong Kong University of Science and Technology



师资队伍 FACULTY

海洋科学与工程系始终把海外人才引进和具有国际视野的高水平师资队伍建设放在首位,截止到2020年8月,海洋科学与工程系有教学科研序列讲席教授6名,教授2名,副教授1名,助理教授10名,研究序列教师15名,其中包括教育部特聘教授2人,国家"杰青"2人,"百人计划"1人。海洋科学与工程系教师主要研究领域包括:海洋板块和地球内部结构、海洋岩石圈与边缘海相互作用、海洋沉积与油气和矿产资源;海洋地质微生物、海洋微生物资源、生物地球化学;大洋环流与气候、海气相互作用;海洋工程技术、海洋工程结构、深海探测仪器研发等。

Our top priority is recruiting world-class scientists into the faculty of the department. By the end of March 2019 the faculty members in the Department of Ocean Science and Engineering include two "Distinguished professor of Ministry of Education", two "National Outstanding. The main research areas of teachers include: Marine plate and internal structure of the Earth; interaction between ocean lithosphere and marginal sea; marine sediments and oil and gas and mineral resources; marine geological microbes; marine microbial resources; biogeochemistry; ocean circulation and climate; sea-air interaction; marine engineering technology; Marine engineering structure, etc.



陈永顺 讲席教授 系主任 CHEN Yongshun Chair Professor Head, DOSE



张传伦 讲席教授 系副主任 ZHANG Chuanlun Chair Professor Associate Head, DOSE

海洋地球物理学 Research field: Marine Geophysics

美国普林斯顿大学博士(1989) 教育部特聘教授,杰出青年 Ph.D., Princeton University, USA Distinguished Professor of Ministry of Educ

Distinguished Professor of Ministry of Education
National Science Fund for Distinguished Young Scholars.

个人简介 Honour received

普林斯顿大学博士,教育部特聘专家,杰出青年,曾任北京大学地球与空间科学学院理论与应用地球物理研究所所长,国际大洋中脊协会主席。主要从事海洋地球物理学和地震大地构造学等方面的研究。曾在海洋扩张板块边界动力学和海洋地壳形成机制等方面作出开创性的贡献。2004年-2008年,被聘为海洋地球物理学杂志(Marine Geophysical Researches)两位主编之一;中国综合大洋钻探计划(IODP-China)专家委员会成员;2013年1月-2015年12月被聘为国际大洋中脊协会主席(Chair of InterRidge)。累计发表论文140余篇,包括Nature、JGR、EPSL、GRL文章,累计被引用2738次。主持国家自然科学基金重大研究计划项目、重点项目、科技部973\863项目、地震行业科研专项项目、国土资源部行业调查等项目十多项。

Ph.D., Princeton University. "Distinguished Professor of Ministry of Education" and "Distinguished young scientist of CAS". He was director of the Institute of theoretical and applied geophysics at the school of earth and Space Sciences, Peking University, and chairman of the Inter Ridge. Prof. Chen is mainly engaged in the research of marine geophysics and seismic tectonics etc.. and he has made a seminal contribution to marine expansion, plate boundary dynamics, and the formation mechanism of oceanic crust. He has published more than 140 papers in international authoritative academic journals(such as Nature, JGR, EPSL, GRL, which are cited more than 2738 times. he hosts more than 10 national major projects.

微生物海洋学 Research field: Microbial Oceanography

美国德州农工大学 (TAMU) 博士 (1994) Ph.D., Texas A&M University, USA

个人简介 Honour received

美国德州农工大学 (TAMU) 博士学位,1994-1998年在美国橡树岭国家实验室从事博士后研究工作;1998年起历任美国密苏里大学副教授,美国佐治亚大学海洋系副教授,终身教授;2008年至2016年,兼任同济大学海洋学院讲席教授,2017年起任职南科大并兼任教学系副主任。主要研究领域为微生物海洋学和地质微生物学。创建了海洋地球古菌组学重点实验室;提出了构造微生物学新概念。在国际地球科学和生命科学期刊上发表学术论文180余篇,其中>170篇被SCI收录,引用次数超过7400次,H-index为53。

Ph.D., Texas A&M University. He worked as a postdoctoral fellow at the Oak Ridge National Laboratory from 1994 to 1998, taught as an assistant professor in the Department of Geology at University of Missouri from 1998 to 2002 and as an associate and full professor (tenured) at the University of Georgia from 2002 to 2014. He also served as a chair professor in Tongji University in China from 2008 to 2012. He joined the Southern University of Science and Technology in 2017 to lead a program in Microbial Oceanography and Geomicrobiology and serves as the vice chair of the Department of Ocean Science and Engineering. His research interests include the role that microorganisms play in the environment and energy transfer, life evolution and global climate change, with pioneering work in archaeal lipid biogeochemistry in the Gulf of Mexico gas hydrates, terrestrial hot springs and the South China Sea ecosystems. He was the founder of the Institute for Archaeal Geo Omics Research (TIAGOR) at SUSTech and developed a new concept of Tectonomicrobiology for promoting geomicrobiological research linking with tectonic activities at various scales. Prof. Zhang has published over 180 peer-reviewed papers in international journals of earth and life sciences, in which over 170 were indexed by SCI, with over 7400 citations and an H-index of 53.



Jason P. Morgan 讲席教授 Jason P. Morgan **Chair Professor**



个人简介 Honour received

海洋地球物理学

美国布朗大学博士(1985)

美国地球物理学会(AGU)会士

Ph.D., Brown University, USA

Research field: Marine Geophysics

American Geophysical Union (AGU) Fellow

Jason P. Morgan, 讲席教授, 1981年毕业于美国布朗大学获学士学位, 1985于美国布朗大学获地球物理学博 士学位。1986-1990年任麻省理工学院地球大气和行星科学系助理教授,1990年 - 1998年在拉霍亚斯克里普斯海洋 学研究所地球物理与行星物理研究所先后副教授、副教授。1999年至2004年担任德国基尔GEOMAR研究中心地球 动力学部主任。2004年至2012年在美国康奈尔大学地球与大气科学系任教授,2015年任RHUL石油地球科学硕士 项目代理主任,2012年至2018年任伦敦大学皇家霍洛威地球科学系主任、教授。美国地球物理联盟 (AGU) Fellow。 2019年加入南方科技大学。

Jason P. Morgan, Chair Professor, graduated from Brown University in the United States with a bachelor's degree in 1981 and a Ph.D. in geophysics from Brown University in the United States in 1985. 1986-1990 Assistant Professor, Department of Earth Atmospheric and Planetary Sciences, Massachusetts Institute of Technology, 1990 - 1998 Associate Professor and Associate Professor at the Institute of Geophysics and Planetary Physics at the Institute of Oceanography, La Jolla. From 1999 to 2004, he served as Director of the Department of Geodynamics at the GEOMAR Research Center in Kiel, Germany. From 2004 to 2012, he was a professor at the Department of Earth and Atmospheric Sciences at Cornell University. In 2015, he served as the Acting Director of the RHUL Master of Petroleum Earth Science Program. From 2012 to 2018, he was the Director and Professor of the Royal Holloway Department of Earth Sciences at the University of London. American Geophysical Union (AGU) Fellow. Joined Southern University of Science and Technology in 2019.



陈建飞 讲席教授 **CHEN Jianfei Chair Professor**

海洋工程 **Research field: Ocean Engineering**

爱丁堡大学博士(1996) 孔雀A类人才

Ph.D., University of Edinburgh, UK Peacock A Talent

个人简介 Honour received

浙江大学学士、硕士,英国爱丁堡大学博士,曾任教于浙江大学,英国诺丁汉大学,2002年起任教爱丁堡大学(讲师 2002-2006: 准教授2006-2013), 2013-2019年任英国贝尔法斯特女王大学教授。2019起任南方科技大学海洋工程讲 席教授。主要研究领域:(1)新材料如高性能纤维增强复合材料(FRP)、高性能混凝土及新结构在海洋及土木工程中 的应用;(2)先进离散元、有限元方法;(3)松散材料力学。在这些领域均取得了系统的创新性研究成果,在世界范围 内产生了重要的影响,发表期刊与会议论文300余篇,入选2016年上海软科与Elsevier发布的"全球土木工程学科高 被引学者"150人名单。大量研究成果被国际上相关标准或指南采用,任权威学术机构国际土木工程复合材料学会第 四任主席(2014-2018), 获英国土木工程师学会历史最悠久的霍华德奖章等。

Dr Jian-Fei Chen, BEng & MSc (Zhejiang University), PhD (Edinburgh University), taught at Zhejiang University, Nottingham University, Edinburgh University (Reader 2006-2013) and Queen's University Belfast (Professor 2013-2019). He joined Southern University of Science and Technology in 2019 as a Chair Professor. He has research interests in 1) applications of new materials such as FRP and high performance concretes and new structures in Ocean and Civil Engineering, 2) advanced numerical methods such as the finite element method (FEM) and discrete element method (DEM), and 3) behavior of granular solids. He has authored or co-authored over 300 publications with an H-index of 33 in WoS. His work has been widely cited and had major impact on engineering practice through the adoption in design standards and guidelines worldwide. According to an Elsevier research, he was one of the 150 Most Cited Researchers worldwide in Civil Engineering in 2016. Prof. Chen received many awards including the Howard Medal given by the Institution of Civil Engineering (ICE).



Chair Professor

林间 讲席教授 LIN Jian

海洋地球物理学 **Research field: Marine Geophysics**

美国布朗大学博士(1988) 美国科学促进会会士(AAAS Fellow)、美国地质学会会士(GSA Fellow)

Ph.D. Brown University, USA

Fellow of American Association for the Advancement of Science (AAAS) and Fellow of Geological Society of America (GSA)

个人简介 Honour received

林间,讲席教授,国际著名海洋地球物理学家。1982年获中国科学技术大学学士学位,1988年获美国布朗大学博士 学位。历任美国伍兹霍尔海洋研究所高级研究员,麻省理工学院/伍兹霍尔海洋研究所研究生联合项目教授等。美国科 学促进会会士(AAAS Fellow)、美国地质学会会士(GSA Fellow)、亨利-比奇洛杰出海洋学家讲座教授、国际大洋发现计 划杰出讲座科学家、香港中文大学杰出学人讲座教授、美国卡尔彼泊青年科学家奖,入选"2019年度中国十大海洋科技 进展"等。对全球大洋板块动力学、大洋中脊与边缘海形成演化、俯冲带构造、地震触发机制等研究作出卓越贡献。在国 际顶级期刊Nature、Science等发表论文230多篇,据ESI统计,其一论文在国际地震学领域十年引用率全球第一。

Chair Professor Jian Lin is an internationally renowned marine geophysicist, a senior scientist at the Woods Hole Oceanographic Institution, and a faculty of MIT/WHOI Joint Program. He received a B.S. in geophysics from the University of Science and Technology of China in 1982 and Ph.D. from Brown University in 1988. Prof. Lin was elected a Fellow of American Association for the Advancement of Science (AAAS) and Fellow of Geological Society of America (GSA). He was awarded the Henry B. Bigelow Chair for Excellence in Oceanography, International Ocean Discovery Program Distinguished Lecturer, Charles E. Culpeper Young Scientist Award among others. He made distinguished contributions to research of Earth's oceanic and marginal sea tectonics and geodynamics from ocean ridges to subduction zones, earthquake interaction, and tsunamis. One of his papers was ranked the #1 most cited paper on earthquake research in a decade.



刘青松 讲席教授 党支部书记 LIU Qingsong **Chair Professor**

海洋地质学和海洋磁学 Research field: Marine Geology & Marine Magnetism

中科院地球物理所博士(1999),美国明尼苏达大学博士(2004) 教育部特聘教授,杰出青年

Ph.D., University of Minnesota, USA Distinguished Professor of Ministry of Education National Science Fund for Distinguished Young Scholars

个人简介 Honour received

中科院地球物理所博士(1999),美国明尼苏达大学博士(2004)。2004-2005年在美国加州大学Santa-Cruz分 校作博士后。2005年获欧盟玛丽居里奖学金,在英国南安普顿大学/国家海洋中心做研究,并于2007年获Lecturer职 位。同年入选中科院"百人计划",任中科院地质与地球物理所研究员、博士生导师。2010年获国家杰出青年科学基 金;2012年获中科院青年科学家奖;2015年入选青岛海洋科学与技术国家实验室"鳌山人才"卓越科学家。2016年加 入南科大,2018年入选教育部特聘教授和深圳市国家级领军人才。先后主持国家自然科学基金项目、中国大陆架钻 探计划课题等10多项科研项目。发表SCI论文200余篇,SCI引用7000余次,H因子39。

Professor LIU Qingsong obtained his PhD degree in University of Minnesota, USA in 2004. Then he worked at the National Oceanography Centre, UK as a Marie-Curie fellow. In 2007, he was appointed as a Lecture. After that, he initialized his research in Institute of Geology and Geophysics, CAS from 2007-2016. In August 2016, he began his works at the department of Ocean Science and Engineering, SUSTech. His scientific interests focus on the geological application of rock-, environmental-, and paleo-magnetism. For his distinguished scientific works, he has been awarded: Distinguished Professor of Ministry of Education; National Science Fund for Distinguished Young Scholars; Aoshan Distinguished Professor, Oingdao National Laboratory for Marine science and Technology; Distinguished Professor, CAS; Outstanding teacher award of CAS; The national science and technology innovation talents, China; China 100 Distinguished Chinese Alumni Award of University of Minnesota, etc.



徐景平 教授 系副主任 XU Jingping Professor Associate Head, DOSE

海洋地质学 Research field: Marine Geology

美国弗吉尼亚海洋研究所博士 (1993) "泰山学者"海外特聘专家 Ph.D., Virginia Institute of Marine Science, USA Taishan Scholar Overseas

个人简介 Honour received

美国弗吉尼亚海洋研究所地质海洋学博士。曾任美国路易斯安娜州立大学助理教授;1996年-2014年任美国地质调查局海洋学研究员;2014年入选山东省"泰山学者"海外特聘专家和青岛市创新领军人才计划,2014年-2017年在中国海洋大学任"筑峰工程"特聘教授。2014年-2019年被聘为中国综合大洋钻探计划专家委员会委员。长期从事海洋沉积动力学的基础研究及其在海洋环境监测、海岸/海底工程保护和海洋地质灾害防护中的应用研究,关注海底重力流的沉积输运方式、原理和控制因素及其环境和灾害效应。自1990年至今在Geology,Marine Geology等国际地学主流学术刊物发表论文60余篇,引用次数超1700次,h指数23。主持多项国家自然科学基金重大研究计划项目、重点项目等项目。

Prof. Jingping Xu, vice dean of Department of Ocean Science and Engineering at Southern University of Science and Technology. He received his PhD in geological oceanography in 1993 at Virginia Institute of Marine Science. In 1996, Jingping Xu served as oceanographer at U.S. Geological Survey. Since 2014, Jingping Xu returned to China and served as processor at Ocean University of China. During that year, he was awarded as the Distinguished Professor of Taishan scholar overseas and was employed as the committee member of IODP-China. The main research focus of Jingping Xu is Source-to-sink transport across continental margins and his principal research interests are: Turbidity currents and submarine canyon processes and Bottom boundary layer sediment dynamics. Since 1990, he had published more than 60 papers in the world's leading geoscience journals, including Nature Communications, Geology, Marine Geology, JGR, GRL.



杨挺 教授 YANG Ting Professor

海洋地球物理学 Research field: Marine Geophysics

美国罗德岛大学博士(2005) "浦江人才"孔雀B类人才 Ph.D., University of Rhode Island Pujiang Talents, Peacock B Talent

个人简介 Honour received

杨挺教授于1997年在同济大学获得硕士学位,2000年在中国地震局地球物理研究所获得固体地球物理学博士学位,2005年在美国罗德岛大学(GSO-URI)获得海洋学博士学位,2006年-2007年在美国德克萨斯大学奥斯丁分校(UT-Austin)进行博士后研究,2007年回国加入同济大学任副教授、教授,2016年11月加入南方科技大学。

杨挺教授长期从事海洋地震学与海洋地球物理学研究,其研究方向主要为利用地震波的传播及地球内部结构成像,曾开发了源端地震层析成像方法(3STomo)。近年来,杨挺教授专注于海底天然地震观测的宽频带海底地震仪(OBS)的研制及应用,他在南海主持开展了我国首次大规模被动源OBS台阵观测实验。目前,他领导深圳市南方科技大学海底地震仪(OBS)设备与工程实验室,与法国的巴黎地球物理研究所(IPGP)合作进行新一代宽频带OBS的研发工作,以及利用被动源OBS资料进行海底结构成像和动力学过程反演等研究工作。

Professor Yang obtained his Ph.D degree from Graduate School of Oceanography at University Rhode Island in 2005, and worked at UT Austin as a post-doctor during 2006-2007. He then work at Tongji University as an Associated Professor and became a professor in 2015. He joined SUSTech in 2016.Dr.Yang is devoting to marine geophysics and marine seismology. He has developed the source side seismic tomography(3stomo). Recently, he forces on the developing of passive source ocean bottom seismometer (OBS) and its application. He has led the fist passive source OBS network experiment in South China Sea. Nowadays, he's the director of SUSTech OBS Lab, which is developing new generation OBS cooperating with IPGP. Processing OBS data, tomography of earth structure and inversion of geodynamic process are his research interests as well.



侯超副教授 HOU Chao Associate Professor



曾芝瑞 副教授 ZENG Zhirui Associate Professor

海洋工程 Research field: Ocean Engineering

清华大学博士 (2014) 孔雀 C类人才 Ph.D., Tsinghua University (2014) Peacock C Talent

个人简介 Honour received

侯超博士,副教授,博士生导师。2009年与2014年于清华大学土木工程系分别获得工学学士与工学博士学位;2015年6月进入悉尼大学土木工程系担任助理讲师,并于2017年晋升为讲师、博士生导师;2019年9月加入南方科技大学海洋科学与工程系担任副教授。侯超博士的主要研究方向为荷载与海洋环境耦合作用下工程结构设计理论,新型钢-混凝土组合结构的工作机理和设计原理,等;已在领域内知名国际期刊发表SCI论文四十余篇,在Web of Science和Scopus数据库中的H-index分别为11和12;担任十余本知名国际期刊的审稿人,及领域内国际学术会议的学术委员会成员、分会场主席等职务。侯超博士在悉尼大学与南方科技大学教授先后教授结构力学、新型钢-混凝土组合结构等本科生、研究生课程;因教学成果优异,连续4年获得院长嘉奖。

Dr. Chao Hou received his BEng degree from Tsinghua University in 2009, where he was awarded as an excellent graduate student and continued academic research as a doctoral candidate. He received his PhD in 2014 and was awarded as an outstanding PhD graduate of Tsinghua University as well as Beijing City. Ever since his PhD study, Dr. Chao Hou has been pursuing original and innovative research at the forefront of advanced structural and construction engineering. His research agenda has focused on the new challenges facing society in the structural performance, the construction technology and the design methodology for advanced engineering structures. His research work includes comprehensive investigations on structures under multiple loading conditions, natural hazards as well as corrosive environments, with particular emphasis on composite tubular members, connections and structural systems.

海洋微生物学 Research field: Geomicrobiology

美国德克萨斯农工大学博士(2014) 教育部特聘教授(青年) 孔雀C类人才 Ph.D., Texas A&M University Peacock C Talent

个人简介 Honour received

曾芝瑞,副教授,博士生导师,2014年获得美国德克萨斯农工大学地质学博士学位,2015-2019年在斯坦福大学进行博士后研究,2019年入职南方科技大学海洋科学与工程系。研究领域是海洋微生物学和古菌分子生物学。研究兴趣是使用生物技术手段回答地球科学的问题,专注于研究海洋古菌细胞膜脂GDGTs(甘油二烷基甘油四醚)的生物合成机制。GDGTs不仅是古菌区别于细菌和真核生物的重要特征,更是重要的分子化石,记录了从古至今海洋表面温度的变化。曾博士的代表性成果包括首次发现鉴定GDGTs环化酶基因,为GDGTs分子化石的指示海洋温度变化的应用奠定了理论基础;此外他还首次发现生存于高温强酸极端环境下的古菌进化出Calditol-GDGT合成酶,极大提高细胞耐酸能力。主要研究手段包括古菌基因编辑技术,蛋白质功能分析,脂类质谱分析,生物信息学等。曾博士将继续探索古菌细胞膜脂GDGTs的完整生物合成机制,阐明其生理功能,拓展分子化石的应用,以及研究古菌适应极端环境的机制等。

Dr. Zhirui Zeng received his PhD in Geology at Texas A&M University in 2014, and went to Stanford University for postdoctoral studies. In 2019, he joined the Southern University of Science and Technology faculty in the Department of Ocean Science and Engineering. He aims to answer earth science questions by using biotechnology approaches. Dr. Zeng is interested in revealing the biosynthesis pathway of archaeal membrane lipid GDGTs (glycerol dialkyl glycerol tetraethers).



李莹 助理教授 LI Ying Assistant Professor

海洋大气物理 Research field: Marine Atmospheric Physics

香港科技大学博士(2011) 孔雀C类人才 Ph.D., Hong Kong University of Science and Technology Peacock C Talent

个人简介 Honour received

李莹,南方科技大学海洋科学与工程系助理教授。主要研究方向包括:海洋大气遥感、大气物理和大气环境,海气相互作用;其主要研究方法是应用卫星遥感和数值模拟,结合外场观测研究人类活动与大气污染及气候的相互作用。在应用大气遥感和数值模拟研究珠三角大气污染机理和控制方面取得了一系列重要成果。承担和参与了多个科研项目,涉及大气污染防治的多个重要环节(观测数据分析、源排放清单估算、空气质量模型改进、源解析、控制策略研究以及健康暴露等)。近五年在 Environmental Science & Technology、Remote Sensing of Environment、Environmental Pollution、Journal of Geophysical Research、Science of the Total Environment和 Atmospheric Environment等国际权威学术期刊发表SCI论文20余篇,总引用350余次。

Li Ying, Assistant Professor at Ocean Department of Science and Engineering. Her research interests include: Remote sensing of ocean and atmosphere, atmospheric physics and environment, ocean-air interaction, climate and environment interaction with human activities. With the application of atmospheric remote sensing and numerical simulation, she has made a series of achievements in studying the mechanism of air pollution in the Pearl River Delta (PRD). She has undertaken or participated in a number of research projects about air pollution, involving aspects of data analysis, emission inventory, air quality model improvement, source apportionment, controlling strategy, and health exposure, etc. In the past five years, she has published more than 20 SCI papers on journals such as Environmental Science & Technology, Remote Sensing of Environment, Environmental Pollution, Journal of Geophysical Research, Science of the Total Environment, and Atmospheric Environment, with a total of 350 Citations.



李芯芯 助理教授 LI Xinxin Assistant Professor

化学海洋学 Research field: Chemical Oceanography

美国德州农工大学博士(2013) 孔雀C类人才

Ph.D., Texas A&M University Peacock C Talent

个人简介 Honour received

李芯芯,女,1983年生,助理教授,博士生导师。2013年获得德州农工大学 (Texas A&M University) 化学海洋学博士学位。主要利用稳定及放射性碳同位素、生物标志物、微生物种群动态和代谢过程等方法研究从河口向海沟各海洋生态系统中有机碳的生物有机地球化学循环过程,及其与海洋富营养化、缺氧效应和全球气候变化的相互关系。在海洋科学知名学术期刊Marine Chemistry、JGR-Biogeosciences、Geochimica et Cosmochimica Acta等已发表16篇论文和一篇国际海水营养盐标准报告(共76名作者),被引约470余次(2020年8月,Google Scholar)。

Dr. Xinxin Li received her Ph.D. in Chemical Oceanography from Texas A&M University in 2013. Her research interest is marine organic biogeochemistry. She studies the fate of organic carbon from estuaries, nearshore to trenches, and their interactions with eutrophication, hypoxia, and global climate change, using the tools of stable and radiocarbon isotopes, organic biomarkers, and microbial community dynamics and processes. She has published 16 peer-reviewed papers in journals of Marine Chemistry, JGR-Biogeosciences, Geochimica et Cosmochimica Acta etc., for over 470 citations by Aug, 2020 (Google Scholar).



周祐民 助理教授 CHOU Yumin Assistant Professor

海洋地质学 Research field: Marine Geology

台湾大学以及法国赛吉冯图瓦兹大学双博士(2012) 孔雀C类人才

Ph.D., Université de Cergy-Pontoise (France) and National Taiwan University Peacock C Talent

个人简介 Honour received

周祐民,助理教授,1979年生。2012年台湾大学地质科学系以及法国赛吉冯图瓦兹大学双博士毕业。在2013年1月至2014年7月在台湾师范大学地球科学系进行博士后研究工作;2014年8月至2017年1月在台湾大学地质科学系进行博士后研究工作。2017年2月至今在南方科技大学工作,任助理教授与海洋磁学中心副主任。主要研究领域包括海洋地质与环境变迁、活动断层构造、地震断层活动的物理化学机制及古地磁场的长期变化。相关科研成果发表在PNAS, Geology等国际权威学术期刊,共发表文章18余篇。

Dr. Yu-Min Chou, assistant professor of Department of Ocean Science and Engineering, SUSTech (2017-). He got duel PhD degree of Geosciences of Université de Cergy-Pontoise (France) and National Taiwan University at 2012. He is specialized in the field of paleomagnetism and rock magnetism. His research interests are environmental magnetic study of marine sediments, magnetic study of seismic fault zones, and paleomagnetic record of speleothems.



郭震 助理教授 GUO Zhen Assistant Professor

海洋地球物理学 Research field: Marine Geophysics

北京大学博士(2015) 孔雀C类人才 Ph.D., Peking University Peacock C Talent

个人简介 Honour received

郭震, 男, 1987年生, 2015年获得理学博士学位, 毕业于北京大学地球与空间科学学院, 2014年至2017年澳大利亚麦考瑞大学地球与行星科学系助理研究员, 2017年至今在南方科技大学海洋科学与工程系任助理教授。研究领域为固体地球物理学, 主要从事流动地震台阵观测, 地球物理联合反演新技术的开发与应用等研究。2012年至今在国际知名地学杂志发表论文14篇, 包括EPSL, Geology, JGR, Gondwana Research, GJI, Tectonophysics等。其中, 2016年度发表于EPSL题为"Seismic evidence of on-going sublithosphere upper mantle convection for intra-plate volcanism in Northeast China" (一作)的文章为Web of Science年度高引用文献(前1%)。

Assistant Professor Guo Zhen received his Ph.D. in 2015. He graduated from the School of Earth and Space Sciences of Peking University. He is an assistant researcher in the Department of Earth and Planetary Sciences, Macquarie University, Australia from 2014 to 2017. He has been in Marine Science and Engineering at Southern University of Science and Technology since 2017. He is an assistant professor.

The research field is solid geophysics, which is mainly engaged in the research of mobile seismic array observation and the development and application of new geophysical joint inversion techniques.



刘志强 助理教授 LIU Zhiqiang Assistant Professor

物理海洋学 Research field: Physical Oceanography

香港科技大学博士 (2013) 孔雀C类人才 Ph.D., Hong Kong University of Science and Technology Peacock C Talent

个人简介 Honour received

刘志强,男,1984年生,助理教授,博士生导师。2013年获香港科技大学海洋环境学博士学位。

2013-2017于香港科技大学进行博士后研究。2018年任香港科技大学环境及可持续发展学部研究助理教授。 2019年加入南方科技大学,海洋科学与工程系,任助理教授。主要从事西北太平洋-中国海中多尺度物理海洋动力过程、变异及其调控机理的观测研究和数值模拟。2013年起在物理海洋学领域主要杂志Journal of Geophysical Research-oceans和Journal of Physical Oceanography,以主要作者发表论文8篇(第一作者6篇),引用超过90次(Google Scholar)。

Dr. Zhiqiang LIU received his Ph.D in Marine Environmental Science from the Hong Kong University of Science and Technology in the year 2013. He worked as a Postdoc Research Associate and then Research Assistant Professor in HKUST from 2013 to 2018. Dr. Liu joined Department of Ocean Science and Engineering in the year 2019 as an assistant professor. His research interests are mainly on the processes governing the coupled cross-scale circulation interactions in the northwestern Pacific Ocean and China Seas and numerical model. Dr. Liu has published 8 peer-viewed research papers in Journal of Geophysical Research-oceans and Journal of Physical Oceanography with over 90 citations by 2018 (Google Scholar).



冯兴亚 助理教授 FENG Xingya Assistant Professor

海洋工程 Research field: Ocean Engineering

新加坡国立大学博士(2016) 孔雀C类人才

Ph.D., National University of Singapore Peacock C Talent

个人简介 Honour received

冯兴亚,1989年出生,助理教授,博士生导师。2016年1月获得新加坡国立大学NUS海洋工程博士学位,2016-2019年先后于新加坡国立大学、牛津大学从事博士后研究工作。2019年加入南方科技大学。研究领域为海洋工程水动力学,专注于波浪理论,波浪与海工结构相互作用,以及海工流体力学等。在博士期间提出了非线性水波-多浮体耦合数学模型,开发和拓展了计算多浮体系统水动力响应的国际领先的数值波浪水池代码,已成功应用于多个海洋工程科研项目。2017年于法国船级社BV深海技术研发中心担任研发工程师,积累了一定的海洋工程实践经验。在牛津大学期间,冯博士在波浪水池试验方法上取得创新性进展,大大减少了试验成本和提高了试验效率,对海洋工程结构的模型水池试验方法研究具有重要意义,具有广阔的应用前景。

Dr Xingya Feng is currently an Assistant Professor at the Department of Ocean Science and Engineering, Southern University of Science and Technology, Shenzhen, China. Dr Feng obtained his B.Eng. in Hydraulic Engineering from Hohai University in 2011, and Ph.D. in Oshore Engineering at the National University of Singapore (NUS) in 2016. From 2016 to 2019, he was a Postdoc Researcher in NUS and the University of Oxford



王誉泽 助理教授 WANG Yuze Assistant Professor

个人简介 Honour received

海洋岩土工程

孔雀C类人才

Peacock C Talent

剑桥大学博士(2019)

Ph.D., University of Cambridge

Research field: Marine Geotechnics

王誉泽,助理教授,博士生导师。2019年获得英国剑桥大学博士学位。2019-2020年于英国杜伦大学从事博后研究工作。2020年加入南方科技大学海洋科学与工程系。研究方向主要集中于新型海床加固技术、新型生物化学技术在海洋岩土工程工程中的应用,海洋油气开采技术、以及海洋岩土工程从微观到宏观等。其在多孔介质多相流运移机理方面,微生物促成矿物沉淀注浆技术以及高分子聚合物物加固土体技术方面取得突破性研究成果。近年来,王誉泽博士在国际高水平期刊(如Geotechnique, JGGE, Engineering Geology, Geotextiles and Geomembranes,等)和国际主流会议(如ICSMGE, AGU, ICGE等)发表论文或会议摘要10余篇。担任JGGE以及ES&T等多个国际高水平期刊审稿人。

Dr Yuze Wang obtained her PhD degree in the University of Cambridge in 2019, and worked in Durham University, UK, as a postdoctoral research associate during 2019-2020 before she joined the Department of Ocean Science and Engineering, Southern University of Science and Technology, Shenzhen, China, as an Assistant Professor. Her current research interests are seabed stabilization, marine bio-geotechnics, marine energy geotechnics, and marine geotechnics from micro to macro. She has been doing significant research on theory of reactive fluid transport behavior in porous medium, the use of Microbial-Induced Carbonate Precipitation or biopolymers for soil stabilization. In recent years, Dr Wang has published more than 10 high-quality journal/top conference papers journals such as Geotechnique, JGGE, Engineering Geology, Geotextiles and Geomembranes and conference preceedings such as ISCMGE and ICEG) .



傅勇助理教授 FU Yong Assistant Professor

海洋岩土工程 Research field: Offshore Geotechnical Engineering

新加坡国立大学博士(2018) 孔雀C类人才

Ph.D., National University of Singapore Peacock C Talent

个人简介 Honour received

傅勇,助理教授,博士生导师。2018年1月获得新加坡国立大学博士学位。2018-2020年于新加坡国立大学从事博士后研究工作。2020年5月加入南方科技大学海洋科学与工程系。研究兴趣及专长包括:海洋岩土工程(如鱼雷锚、桩脚靴、海底管线),地下空间技术(如开发水平深层搅拌设备),物理模型实验(如室内实验、岩土离心机实验、现场实验),大变形有限元数值模拟技术(如CEL和RITSS)。近年来,傅勇博士在Geotechnique、Canadian Geotechnical Journal、Computers and Geotechnics、Geotechnical Testing Journal等岩土工程领域国际知名期刊发表学术论文十余篇。担任多个国际高水平期刊审稿人。

Dr Yong Fu obtained his PhD degree in the National University of Singapore in 2018, and worked as a research fellow during 2018 and 2020 before he joined the Department of Ocean Science and Engineering, Southern University of Science and Technology, Shenzhen, China, as an Assistant Professor. His research interest and expertise include offshore geotechnical engineering (i.e. torpedo anchors, spudcans and pipelines), underground space technology (i.e. development of horizontal DCM equipment), physical experiments (i.e. laboratory, centrifuge and field experiments), large deformation finite element modelling (i.e. CEL and RITSS methods). In recent years, Dr Fu has published more than ten high-quality international journal papers in world-renowned geotechnical journals such as Geotechnique, Canadian Geotechnical Journal, Computers and Geotechnics, Geotechnical Testing Journal. In addition, he also served as the reviewer of several international journals.



冯伟强 助理教授 **FENG Weigiang Assistant Professor**

海洋岩土工程 **Research field: Marine Geotechnics**

香港理工大学博士(2016) 孔雀C类人才 Ph.D., Hong Kong Polytechnic University Peacock C Talent

个人简介 Honour received

冯伟强,1985年出生,助理教授,博士生导师。2016年9月获得香港理工大学岩土工程博士学位,2016-2020年留在香 港理工大学从事博士后研究工作。2020年6月加入南方科技大学。冯博士在博士期间提出了考虑固结与蠕变拟耦合 的新简化计算模型,并拓展了土体弹粘塑性本构模型可有效应用在土体卸载中长期变形分析。目前研究领域为海洋 土体固结性质,土体本构理论及模拟,物理模型试验,以及光纤监测技术应用等。在Canadian Geotechnical Journal, Engineering Geology, Computers and Geotechnics, International Journal for Numerical and Analytical Method in Geomethanics等岩土工程领域国际知名期刊发表二十余篇学术论文(SCI收录),其中第一作 者/通讯作者文章15篇。担任多个知名期刊审稿人。

Dr Weiqiang Feng is currently an Assistant Professor at the Department of Ocean Science and Engineering, Southern University of Science and Technology, Shenzhen, China. Dr Feng obtained his B.Eng. in Mining and Geotechnical Engineering from Central South Unviersity in 2008, Master degree in Geotechnical Engineering from Zhejiang University in 2011, and Ph.D. in Geotechnical Engineering at the Hong Kong Polytechnic University in 2016. From 2016 to 2020, he was a Postdoc Fellow in the Department of Civil and Environmental Engineering of Hong Kong Polytechnic University. Dr Feng's research focuses on consolidation analysis of marine clay, soil constitutive modelling and simulations, physical modelling and applications of fiber optic technology. In recent years, Dr Feng has published more than twenty high-quality international journal papers in geotechnical journals such as Canadian Geotechnical Journal, Engineering Geology, Computers and Geotechnics, International Journal for Numerical and Analytical Method in Geomethanics. In addition, he also served as the reviewer of several international journals.



陈永顺 讲席教授

CHEN Yongshun Chair Professor

杨挺教授

YANG Ting Professor



深圳海底地震仪设备与技术工程实验室

Shenzhen Key Laboratory of Ocean Bottom Seismograph **Equipment and Technology Engineering**

由深圳市发改委资助建设的深圳海底地震仪设备与工程实验室(经费:500万)响应了"建设海洋强国"的国家战略和 深圳市"海洋未来产业"的发展规划。这一高起点的实验室致力于海底地震和海啸灾害的防御、海洋资源的开发以及揭示 地球内部结构和动力学过程等科学目标。实验室的两位责任教授为陈永顺教授和杨挺教授。实验室以国际最先进的海底 地震观测技术为目标,将引进法国著名的地学研究所IPGP的OBS制造技术,迅速实现规模化的开发高性能宽频带OBS的 能力,解决现阶段我国海底地震观测领域所面临的仪器设备短缺的问题。

The ocean bottom seismograph and the engineering laboratory in Shenzhen were jointly founded by Shenzhen Municipal Development and Reform Commission and South University of Science and Technology of China, in response to the national strategy of "maritime power" and the development planning of "future marine industry" of Shenzhen city. The laboratory based on a high starting point is engaged in scientific objectives such as the prevention of submarine earthquakes and tsunami disaster, the development of ocean resources and the disclosure of the earth's internal structure and dynamics process etc. The two responsible professors in the laboratory are Professor Chen Yongshun and Professor Yang Ting. With the goal of the world's most advanced submarine seismic observation technology, the laboratory will introduce the OBS manufacturing technology of IPGP, a famous geoscience research institute in France, to rapidly realize the capability of developing high-performance broadband OBS on a large scale, and solve the current stage of seabed seismic observation in China. The problem of shortage of instruments and equipment.



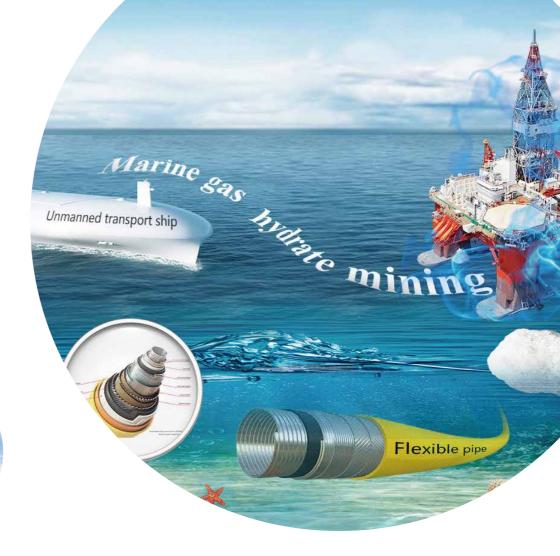


张传伦 讲席教授 ZHANG Chuanlun Chair Professor

深圳海洋地球古菌组学重点实验室 Shenzhen Key Laboratory of Marine Archaea Geo-Omics

实验室由张传伦教授负责,将围绕古菌展开四个方向的研究:1) 古菌生命演化;2) 古菌生态功能及代谢机理;3) 海洋古菌资源的开发利用;4) 古菌近海与河口生态修复。重点实验室将利用南方科技大学多学科交叉的有利条件,集成海洋、生物、化学和生物医学工程等学科优势,优先打造四个技术分析室,即"可视化"室、"指纹化"室、"数字化"室、和"深海技术与资源开发"室。建设形成国际一流的科研和教学团队,引领全球海洋古菌组学。

The laboratory is under the responsibility of Professor Zhang Chuanlun, and will carry out research in four directions around archaea: 1) evolution of ancient bacteria; 2) ecological function and metabolic mechanism of archaea; 3) development and utilization of marine archaeal resources; 4) archaeal offshore Ecological restoration with the estuary. The key laboratories will take advantage of the multidisciplinary advantages of Southern University of Science and Technology, integrate the advantages of marine, biological, chemical and biomedical engineering, and prioritize the creation of four technical analysis rooms, namely the "visualization" room and the "fingerprinting" room. Digital "room" and "deep sea technology and resource development" room. The construction of a world-class scientific research and teaching team, leading the global marine archaeal group.







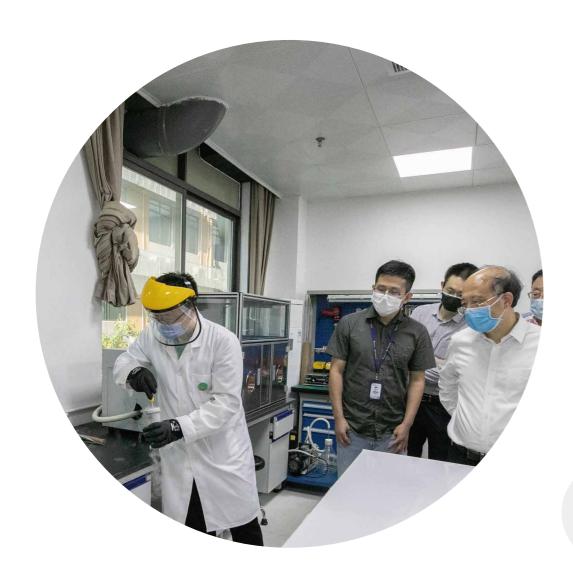
陈建飞 讲席教授 CHEN Jianfei Chair Professor

深圳海洋油气钻采装备与管缆工程实验室 Shenzhen Key Laboratory of Marine Oil & Gas Drilling Equipment and Pipeline Engineering

由深圳市发改委资助建设的深圳海洋油气钻采装备与管缆工程实验室(经费:500万)致力于建立海上浮式结构、水下生产系统、水下处理系统和海底管道系统的实验基地,面向海洋工程装备产业化,实现海洋工程装备的自主研发、试验测试和海洋工程学科的建设及研究生的培养。实验室负责人由国际知名海洋工程专家陈建飞讲席教授担任,致力于建立海上浮式结构、水下生产系统、水下处理系统和海底管道系统的实验基地,面向海洋工程装备产业化,实现海洋工程装备的自主研发、试验测试。以世界海洋工程学科研究较为前沿的学校为榜样,如MIT、NTNU等,将南方科技大学建设成中国海洋油气开发装备的产业化实验室,使之在世界的海洋工程领域占据一席之地。

The Shenzhen Marine Oil and Gas Drilling and Mining Equipment and the Pipeline Engineering Laboratory are engaged in establishing laboratory bases for offshore floating structures, underwater production systems, underwater processing systems, and submarine pipeline systems, orienting the industrialization of marine engineering equipment realizing self-development and test of marine engineering equipment, establishment of marine engineering subjects and cultivation of graduate students.

The head of the laboratory is chaired by Chair Professor CHEN Jianfei, an internationally renowned marine engineering expert. He is committed to establishing an experimental base for offshore floating structures, underwater production systems, underwater treatment systems and submarine pipeline systems, facing the industrialization of offshore engineering equipment and realizing offshore engineering. Independent research and development, testing and testing of equipment. Taking the leading schools in the world's marine engineering disciplines as examples, such as MIT and NTNU, the Southern University of Science and Technology will be built into the industrialization laboratory of China's marine oil and gas development equipment, making it a place in the world's marine engineering field.





学术委员会主任 Academic Committee Director

陈晓非院士 CHEN Xiaofei Academician



主任 Director

陈永顺 讲席教授 CHEN Yongshun Chair Professor

南方海洋科学与工程广东省实验室(广州)深圳分部 Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou)Shenzhen Branch

南方海洋与工程广东省实验室(广州)深圳分部(简称"深圳分部")是由南方科技大学牵头,整合深圳市多所大学和科研单位共建的广州海洋实验室下属分部。深圳分部建设将与广州海洋实验室同步进行。深圳分部将致力于整合深圳多所大学和研究机构海洋科技优势力量,发挥深圳在高端人才引进和高科技制造方面的优势,培养国际一流海洋研究队伍,建设一流海洋科学与工程研究平台,为粤港澳大湾区高科技产业发展、深圳海洋全球中心城市的建设、和提升大湾区的战略地位提供科学与技术支撑,推动粤港澳大湾区海洋经济发展。

The Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou) Shenzhen Branch is led by Southern University of Science and Technology and integrates the branches of the Guangzhou Marine Laboratory jointly established by many universities and research institutes in Shenzhen.

The construction of the Shenzhen branch will be carried out in parallel with the Guangzhou Ocean Laboratory. The Shenzhen branch will focus on integrating the strengths of marine science and technology in many universities and research institutions in Shenzhen, giving full play to Shenzhen's advantages in high-end talent introduction and high-tech manufacturing, cultivating world-class marine research teams, and building a first-class ocean science and engineering research platform. The development of high-tech industries in Guangdong-Hong Kong-Macao Greater Bay Area, the construction of Shenzhen Ocean Global Center City, and the strategic position of Greater Bay Area provide scientific and technical support to promote the development of the marine economy in Guangdong-Hong Kong-Macao Greater Bay Area.

科学研究-研究中心 SCIENTIFIC RESEARCH - CENTER



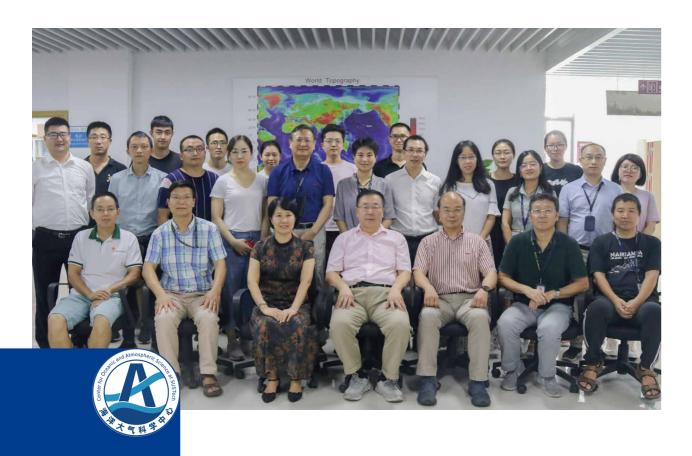
海洋磁学中心 SUSTech Center for Marine Magnetism

海洋磁学中心旨在建立国际一流的海洋磁学研究平台,开拓海洋磁学研究新方向,大力推进海陆联合研究。目前已建成完善的磁学测量平台、矿物合成平台及样品前处理平台等,配备超导磁力仪、振动样品磁强计、旋转型卡帕桥磁化率仪、旋转退磁仪、脉冲磁力仪、交变退磁仪、古强度炉、紫外可见近红外分光光度计与激光粒度仪等先进仪器。目前主要开展古地磁学基本理论及其在地学中应用的基础与综合研究,在岩石与矿物的复杂磁性机理、沉积剩磁获得机理、地球磁场演化、海洋磁学、海底矿产资源分布及成矿规律、大陆架沉积物年代学与古环境演化等方面取得了重要成果。此外,集成船载、无人机、拖网与水下滑翔机等,开展海洋三维磁测,研究高精度的海洋磁结构与洋壳记录的地磁场演化信息。自2017年成立以来承担科研项目10余项,发表SCI论文40余篇,包括Nature Communications、Science Advances、PNAS、Geology、JGR Solid Earth、EPSL等领域一流期刊。

The Centre for Marine Magnetism (CM2) aims to establish a world-class oceanographic magnetic research platform, explore new directions for oceanographic magnetic research, and to promote marine-land joint research. Recently, the comprehensive magnetic measurement platform, magnetic mineral synthesis platform, and sample preparation platform have been set up, including a superconducting magnetometer, a vibrating sample magnetometer, a Multi-Funtion KappaBridge, a JR-6A spinner magnetometer, an impulse magnitizer, an alternating field demagnetizer, a thermal demagnetizer oven, a Ultraviolet-Visible-Near infrared (UV-Vis-NIR) spectrophotometer, and a Laser particle size analyzer. Our major research aspects focus on the basic theory of paleomagnetism and its application in geosciences. We have published some prominent achievements in the research of rock/mineral magnetism, the mechanism of detrital remanence magnetization, the evolution of Earth's field, marine magnetism, the marine metal resources distribution/formation, the chronology of continental shelf sediments, and the evolution of paleoenvironment. In addition, we combine the observation techniques of research vessels, UAV, trawlers, and underwater gliders to achieve the 3D marine magnetic survey, proceed to study the high-precession marine magnetic structure and the paleomagnetic records from the ocean floors. Since 2017, CM2 has undertaken tens of research projects and published more than 40 SCI papers in the journals of Nature Communications, Science Advances, PNAS, Geology, JGR Solid Earth, and EPSL etc.



刘青松 讲席教授 LIU Qingsong Chair Professor





李莹 助理教授 LI Ying Assistant Professor

大气海洋科学中心

Center of Oceanic and Atmospheric Science at susTech (COAST)

南方科技大学海洋大气科学中心(COAST)成立于2019年,隶属于前沿与交叉科学研究院。利用跨学科的优势,除了传统的海一气相互作用,中心重点研究人为活动和海洋活动,通对海气相互作用对环境和气候影响、探索海洋一陆地一大气交互作用的新研究领域;目前主要关注大气成分的变化是否及如何影响海气相互作用及气候,极端天气气候影响,台风及风暴潮预报预警等。通过研究人类活动与环境气候相互影响,推动大气和海洋环境观测技术的发展,积极推进近海洋气象与环境灾害的研究与防御。最终实现引领学科方向、建设和凝聚人才队伍、强化基础研究及其应用、培养一批高质量海洋大气科技及管理人才、服务于国家"进军深海"战略和打造深圳市为全球海洋中心城市的战略目标。

Founded in 2019, taking advantage of its interdisciplinary advantages, in addition to the traditional ocean-atmosphere interaction, the Center for Oceanic and Atmospheric Sciences at SUSTech (COAST) focuses on studying the impacts of human activities and oceanic activities on the environment issues and climate change through the ocean-atmosphere interaction, and exploring the new research scope of ocean-land-atmosphere interaction. At present, it mainly focuses on whether and how the change of atmospheric composition affects the ocean-atmosphere interaction and climate, extreme weather and climate events, typhoon and storm surge prediction and warning, etc. By studying the interaction between human activities and environmental climate, promoting the development of observational technology for oceanic atmospheric environments , and actively promoting the research and prevention of costal meteorological and environmental disasters, we expect to achieve the overall goal of leading the discipline direction, building the team of talents, strengthening both the fundamental research and application, cultivating a batch of high-quality oceanic and atmospheric technology and management talents, and ultimately serving for the national strategy of "exploration of the deep ocean" and "building global maritime metropolis Shenzhen".

科学研究-成果 SCIENTIFIC RESEARCH - ACHIEVEMENTS

杨挺教授团队成功研发新型宽频带海底地震仪(OBS)

宽频带海底地震仪是进行海底地下结构探测的核心仪器设备,其研发也是我国海洋地球物理界所面临的重要挑战之一。南科大OBS实验室,在杨挺教授三年多的心血和努力下,成功研发具有国际领先技术、完全自主产权的第四代宽频带"磐鲲"OBS,并顺利完成海试,这表明我国在深海海域地震仪的高端研发技术方面取得重要进展。通过"磐鲲"OBS的研发,团队在被动源OBS设备研发领域积累了大量的技术基础,包括全新分体式结构、抗底流外形设计、地震计自动调平锁紧技术、极低功耗高精度数采和控制系统、地震计与仪器本体自动分离装置等等。在OBS领域已累积申请专利25项,其中18项已获得授权,7项进入实审7项,3项获得国际PCT专利。





陈永顺讲席教授团队引领Mermaid浮潜式 南太平洋地震台站网投放成功

浮潜式地震仪(MERMAID)是一种新型的、自容式的、搭载了地震仪的水下机器人,可以保持在海洋中一定深度跟随洋流在全球大洋中进行漂浮,实时记录全球地震所激发的地震波,并将地震数据通过卫星传回研究中心以供分析和成像。浮潜式地震仪具有自主性、实时性、便携性和开放性等特征,是未来海洋地震学成像研究的最重要的工具。陈永顺教授引领实施"地球透镜-海洋(Earthscope-Oceans)"国际合作项目,计划在全球大洋中布放300-500套潜浮式地震仪,组成潜浮式地震仪观测网络来收集全球的地震资料,并结合全球陆地台站记录,首次获得地球内部结构的高精度图像,填补全球大洋在地震观测的巨大空白,该计划的顺利实施必将成为未来海洋地球物理探测的里程碑。



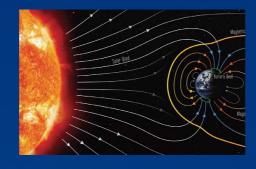
刘青松讲席教授团队 成功研发远洋垂起固定翼无人机磁测海系统

2019年度中国十大海洋科技进展评选中,南方科技大学刘青松团队领衔的"远洋垂起固定翼无人机磁测系统海试成功"入选。该系统突破了机船动态模式下的起降问题,克服了测量平台上的电磁干扰,实现了多种磁力仪系统的集成数据采集。与传统的船载磁测技术相比,该系统的测量效率可提高一个数量级,性能国际领先。该系统研制成功将全面提升海洋磁测模式,大力推动洋壳结构、洋中脊演化与海洋考古等重大科学研究。同时,该系统还适合大面积的海洋矿产资源勘查,为我国占领国际海洋资源制高点提供了新的技术保障,为推动我国海洋事业发展做出重大贡献。



周祐民助理教授团队发现百年尺度地磁极性倒转

2018年8月《美国国家科学院院刊》(PNAS, IF=9.504) 报道了周祐民助理教授发表的题为 "Multidecadally resolved polarity oscillations during a geomagnetic excursion"的论文,在 文章中周祐民助理教授重建了贵州三星洞石笋十万年前高精度的古地磁记录。结果表明,在十万年前地磁极呈现不稳定状态,在百年到千年尺度上波动,尤其在九万八千年前,地磁极仅需一百到两百年之间即可以从正向快速的发生倒转,该研究中所发现的地磁倒转速度远比过去估计的千年尺度还快上10倍。论文一经发表,就得到国外众多媒体报导,包含中国国际电视台、Newsweek、Eurekalert、Remonews、Forbes、Spaceref、AstronnomyNow、TechKrest、International Business Time、DailyMail等广泛关注。



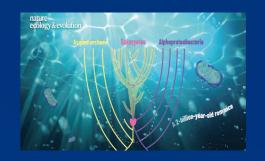
张传伦讲席教授团队在古菌海洋学及生态过程 研究汇总取得重要进展

张传伦教授等2018年在《环境微生物》(Environ Microbiol,IF=5.15)首次报道海洋异养古菌MG-II在富营养河口的持续勃发及机制,并在 2018年《国家科学评论》(NSR,IF= 16.24 -截止到2020.3)发表了海洋生物碳循环的综述性文章,系统阐述了影响海洋生物地球化学的主要理论(生物泵和微型生物碳泵)和观点。碳是全球生物地球化学循环的关键因素。它在海洋中的生物和非生物过程中发挥着重要作用,并调节海洋和大气中碳的化学和氧化还原状态。海洋中非生物和生物碳(例如,二氧化碳,碳酸钙,有机物质)之间的相互作用是复杂的,并且存在有一个半世纪的是否存在相当于大气二氧化碳浓度大小的大量惰性溶解有机碳(recalcitrant dissolved organic carbon,RDOC)的谜团。生物碳泵(biological carbon pump,BCP)和微生物环(microbial loop,ML)的概念塑造了我们对海洋碳循环的理解。最近的微型生物碳泵(microbial carbon pump,MCP)概念与生物碳泵和微生物环的概念密切相关,明确地考虑了海洋惰性溶解有机碳储层的重要性,并为探索其形成和持久性提供了机制框架。对微型生物碳泵的理解得益于先进的"组学",以及生物海洋学和微生物生物地球化学的最新研究理念。这篇综述总结并讨论了自2010年微型生物碳泵提案以来的进展,并为未来制定了研究课题



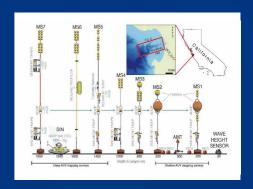
张传伦、范陆等合作团队在《自然•生态与进化》杂志 发表有关线粒体起源世纪之争的研究成果

2020年7月,南方科技大学海洋科学与工程系讲席教授张传伦/范陆科研团队联合同济大学教授朱瑞新团队和德国杜塞尔多夫大学William Martin教授团队,在真核细胞线粒体与Alpha变形细菌之间的进化关系上取得突破性成果。论文以"基于系统性物种取样方法的系统发生学分析证明线粒体起源于Alpha变形菌(Phylogenetic analyses with systematic taxon sampling show that mitochondria branch within Alphaproteobacteria.)"为题发表在Nature子刊《自然•生态与进化》(Nature Ecology & Evolution)上。研究论文首次对有关线粒体起源的系统发生学的方法问题进行了系统梳理,并将目前争论不休的线粒体起源问题重新拉回到Alpha变形菌的框架中。该研究为接下来寻找线粒体的最近祖先的研究提供了可靠的方法学基础。南科大海洋系研究助理教授范陆博士为论文第一作者论文和共同通讯作者。



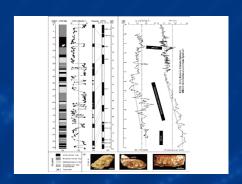
徐景平教授团队在浊流研究中取得重要进展

海底浊流是地球上最重要的沉积物输运载体,是陆源物质进入深海的重要方式。但是由于缺乏对海底浊流的直接观测数据,在有关浊流基本性质的问题上,比如驱动浊流流动的是低浓度湍流还是浓度很高的基底层这一问题,仍存在争议。由中-英-美科学家共同参与的研究团队通过历时三年、有史以来最密集的海底峡谷重力流的监测研究活动,提出了海底浊流及大规模滑坡运动机制的新见。研究发现,蒙特利海底峡谷发生的强劲的浊流具有双层结构:驱动着浊流向峡谷下游流动的高浓度基底层,和覆盖其上、厚度可达50 m的低浓度流体。该研究还创新性地利用了电导率法原地测量出浊流底层的沉积物浓度,在浊流到达以后,峡谷底部的沉积物浓度逐渐增大,最大浓度值达到12%(体积浓度)。12%的体积浓度是迄今为止世界浊流研究中首次原地实测到的最高浓度,远远超出了常规测量方法中应用的声学或光学仪器的测量范围。该研究为准确、全面地理解海底强浊流的基本特征和动力过程迈出了极为重要的一步。相关成果发表在《Deep-Sea Research Part I》、《Earth and Planetary Science Letters》、《Nature Communication》等国际知名杂志上。



刘青松讲席教授团队在亚洲粉尘演化研究中取得重要进展

在亚洲粉尘源区,全面厘定了亚洲源区表层粉尘样品的磁性矿物学特征,为亚洲粉尘物源研究提供了新的磁学依据;提取了青藏高原长序列粉尘演化信息,将亚洲内陆粉尘记录的时间尺度拓展到了距今55 Ma,深入挖掘了源区气候环境状况与全球气候变化和高原隆升的关系;在北太平洋粉尘沉降区,建立了适用于高分辨率海洋粉尘沉积研究的新指标,利用新指标重建了上新世中晚期以来北太平洋的粉尘通量演化历史,探讨了粉尘记录的古环境指示意义,提出了亚洲粉尘源区古环境演化新模型;在古气候模拟方面,获取了西风带上新世中期以来的演化特征与机制等大气环流循环的关键信息。该成果深入挖掘了粉尘的科学价值,丰富了全球粉尘研究的方法学体系和研究内容,拓展了环境磁学和岩石磁学的应用领域,提升了海洋粉尘研究在全球变化领域内的研究地位。相关成果发表在《Nature Communication》、《Geology》、《Earth and Planetary Science Letters》等国际知名杂志上。



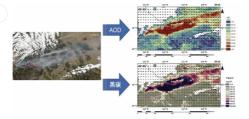
李芯芯助理教授团队全面展开从河口向海沟的海洋生物 有机地球化学研究

在珠江及临近南海海域有机碳循环研究中,李芯芯助理教授团队通过分析二月份枯水期珠江上游飞来峡水库至珠江口南海近岸区域的表层沉积物样品,首次计算出C4植被对珠江口沉积物有机碳的贡献在以前的研究中被低估了约14±11%,而陆地土壤的贡献被高估了21±17% (Li et al., JGR-Biogeo, 2017)。研究团队与合作者通过对东海海域81个表层沉积物样品有机碳组成和来源的综合分析,发现冲绳海槽内的有机碳与长江输入的有机碳的碳趋化指数更为相近,因此提出了长江输入的有机碳可以在东海海域伴随洋流和水动力跨越式搬运至冲绳海槽而聚集的重要机制 (Mei, Li et al., J Mar Syst, 2019)。另外,研究团队圆满完成以国家自然科学基金委员会和欧洲基金委支持的智利(阿塔卡马)海沟国际联合考察航次,为课题组海沟生物有机地球化学研究提供了第一手的数据样品资料,目前相关分析正在进行中。本研究填补了我国在东太平洋海域研究的空白。



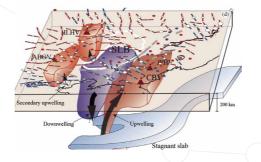
李莹助理教授团队在气溶胶卫星遥感方面取得了重要研究进展

李莹助理教授团队创新了一种耦合了气溶胶化学组分混合模式的大气辐射传输模型,并依据黑碳气溶胶的强吸收特性与其在辐射传输中的可标识性,基于多参数约束的统计优化插值理论,提出了的大气黑碳气溶胶浓度的卫星遥感反演方法。并将该方法应用于PARASOL多角度偏振卫星数据,其结果能够很好地识别亚洲高污染区域强吸收性黑碳的浓度与分布,并在污染条件下具有十分可靠的反演精度。该方法突破了传统方法只能反演混合态总气溶胶的光学特性的瓶颈,对于提升卫星遥感在大气环境监测中的应用能力、揭示区域黑碳气溶胶历史变化以及时空分布规律、提升定量遥感精度、解答黑碳气溶胶来源与环境气候效应有着重要的科学意义。相关研究成果已于2019年6月以"基于卫星遥感数据的近地面黑碳气溶胶浓度反演"为题,发表在遥感领域旗舰期刊(RSE, IF=9.085)。



郭震助理教授团队提出了"东北地区上地幔小尺度对流模式"

东北地区上地幔小尺度对流模式"为"东北地区新生代陆内火山活动成因"这一重大科学问题给出了合理的深部动力学模型,即由于太平洋板块的俯冲导致的上地幔小尺度对流是造成东北地区新生代板内火山活动的重要动力学成因。该研究首次观测到完整的上地幔对流环,并定量给出了对流环的空间范围,为上地幔小尺度对流提供了直接的地震学证据,这对于研究板内火山热物质起源,完善板块构造理论,研究地幔动力学机制等问题具有重要意义。2016年发表在EPSL上的文章(Guo et al., 2016, EPSL)被Essential Science Indicators (ESI)统计为2016-2017年度地学界"高被引论文(top 1%)"。





人才培养-海洋工程与技术专业 EDUCATION-THE PROGRAM OF OCEAN ENGINEERING AND TECHNOLOGY

海洋工程与技术专业是一门科学台理地开发和利用海洋资源的新兴综合专业学科。新兴海洋工程包括海岸线的建设与防护,近海岛屿开发,海上平台、海底管线等工程设施;石油和天然气勘探开采平台、大型浮式储油库、大型浮式机场、浮式风机、深海浮式牧场、海上新能源平台等高端海洋工程设施;无人船或无人潜水器、海底无人采矿设施、深水海底管线及立管系统等海底工程设施和深海高端装备;基于大数据平台和物联网云服务的智能海洋工程系统设施。海洋工程与技术学科是为上述海洋工程设施的勘察、设计、建造、海上安装与维护提供支持与决策的工程技术学科,是我国"海洋强国"战略与中长期"深海战略"发展人才紧缺的专业学科。

The program of Ocean Engineering and Technology is a new subject for the scientific development and utilization of ocean resources. Offshore engineering includes the construction of coastlines, offshore island development, offshore platforms, pipelines; Offshore oil and gas platform, large floating storage, floating airport, floating wind turbines, offshore renewable energies and other offshore engineering facilities; Deep-sea engineering facilities such as unmanned vessels or submersibles, unmanned deep-sea mining facilities, deep-water pipelines and riser systems; intelligent offshore system facilities based on big data and cloud technologies. The discipline of Ocean Engineering and Technology is an engineering discipline that provides support and decision-making for the investigation, design, construction, installation and maintenance of the above-mentioned offshore engineering facilities, it is the key subject of China's "Ocean Country" strategy in the long term.

专业基础课	专业核心课	专业选修课	
海洋工程概论	海洋工程设计	海洋技术基础	海洋结构物损伤评估
CAD与工程制图	海洋工程材料与结构	海洋工程测试技术	海洋结构物腐蚀防护
流体力学	土力学实验	控制工程基础	海洋结构动力学
土力学与地基基础	水动力学实验	动力学与机械振动	海洋地震观测基础
材料力学		计算海洋学	结构防火工程

弹性力学

海底天然气勘探与开采

结构力学

海洋工程水动力学

实践教学 FIELD TRIP



三大课程

地质实习 Geology field trip



地质实习能够使学生初步掌握基本的野外地质工作基本技能,包括学习地形图和罗盘的使用方法,掌握野外定点、产状测量和描述记录等工作技能;观察表层及内部地质作用的现象或产物,初步掌握野外鉴别三大岩类的基本方法;概略地了解水资源、矿产资源和旅游资源等的开发利用情况,以及人类活动对环境的影响。表层地质作用有风化作用、地面流水、地下水、海洋等地质作用;内部地质作用包括岩浆作用、变质作用和构造运动,对于今后的专业学习和扩大知识面是极为重要的,是不可缺少的教学环节。

海上实习 Marine Cruises



海上实习是海洋科学教学中必不可少的环节,目的在于让学生亲身体验海上生活,学习并掌握基本的海上实验技能,提高学生理论联系联系实际的能力以及获取和分析资料的能力,为学生以后从事海上工作打下基础。同时激发学生认识海洋、探索海洋、研究海洋的兴趣,从而树立起献身海洋科学事业的积极学习态度。本次实习主要是学习和参观海洋调查仪器,出海学习海洋化学的水样采集及现场测定相关参数;进行物理海洋测流与温盐深等方面的数据现场测定,实践掌握海洋科考的基本技能,学习海洋化学与物理海洋的基本知识;出海进行海洋生物的采样,实践掌握海洋生物调查的基本技能,学习海洋生物学的基本知识;学会样品保存与数据分析等技能。



极端环境生命过程野外实习安排在腾冲热海地区,云南腾冲地区的热泉是印度大陆和亚欧大陆激烈碰撞后造山运动的产物。这一区域以其独特的地形环境和地理位置成为世界上热泉最密集的区域之一。其中,一些区域的水温可达到90℃以上,然而该区域还没有成为世界热泉和极端嗜热环境微生物研究的热点。通过本次实习,同学们将在课堂上所学的理论知识与野外极端环境结合起来,加深对专业知识的理解,对极端环境生命有一个系统性地认识,学会热泉水样和沉积物样品采集,富集、鉴定和分离古菌;为野外热泉和实验室内富集培养及分离筛选提供基础理论依据。探索热泉微生物资源的利用潜力为提高极端微生物领域的研究水平做贡献。

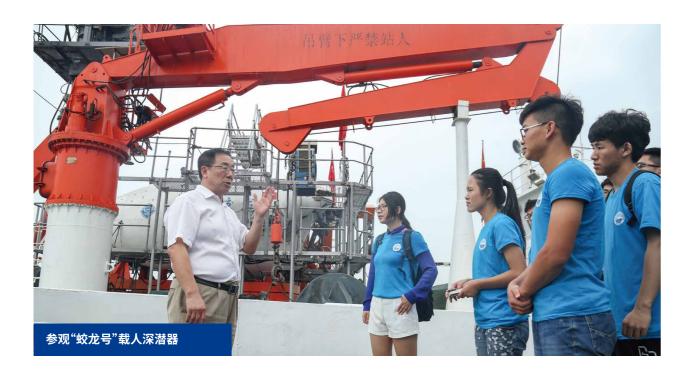


深渔俱乐部 DEEP FISHING CLUB

深渔俱乐部(Deep Fishing Club),简称DFC,是隶属于南方科技大学海洋科学与工程系的本科生学生社团,于2017年张传伦讲席教授积极倡导筹建而成。目前,张传伦讲席教授、程斯宇教学秘书任指导老师,廖崇霖同学任会长,姚文勇同学任副会长,章沁雅、周敬倬、赵滢等同学任分部部长,会员300余名。

以海洋科学为主题,集学术性、社交性、娱乐性于一体的DFC致力于为同学们开拓视野、增加学术经历,吸引了一大批志同道合的优秀同学。截至2020年7月8日,DFC已经成功举办各类学术、参观、交流活动80余次,在校内具有较高知名度,与校外组织如潜爱大鹏等合作关系也十分良好。不仅如此,DFC还将继续选派优秀成员参加全国海洋社团联盟组织的各类学术竞赛和学生活动,未来将为我校本科生提供更多更好的机遇和平台。





本科生学生会 UNDERGRADUATE STUDENT UNION



海洋系本科生学生会成立于2018年11月,现有4名学生干部。学生会通过组织各类学术、体育、生活类集体活动,促进海洋系师生交流,增强凝聚力。同时,学生会亦开展学术类活动,开阔同学们的视野,让同学们在实践中体会海洋科学的魅力。

Founded in October 2018, the Graduate Student Union (GSU) of the Department of Ocean Science and Engineering strives to strengthen communication among graduate students by organizing various academic meetings and sports activities, so as to promote the all-round development of graduate students.



研究生招生 GRADUATE ADMISSION



从2016年开始,南方科技大学与北京大学、哈尔滨工业大学、香港大学、香港科技大学、新加坡国立大学、华威大学、伯明翰大学、利兹大学等境内外知名高校开展研究生联合培养,满足双校毕业标准和论文要求后获得合作高校学位以及南科大学历证明。南科大与大陆高校联合培养项目(简称境内联培)招收攻读硕士学位研究生采用推荐免试和普通招考两种形式进行,攻读博士学位研究生采用直接攻读博士学位和"申请-考核制"两种招收方式,择优录取。南科大与境外高校联合培养项目(简称境外联培)招收攻读博士学位研究生采取"申请-考核制"招收方式。目前南科大录取的所有

截止到2018年6月,南方科技大学共有4个博士学位授权点分别为数学、物理学、生物学、力学,6个硕士学位授权一

Since 2016, famous universities both at home and abroad such as the South University of Science and

Technology, Peking University, Harbin Industrial University, Hong Kong University, Hong Kong University of Science and Technology, National University of Singapore, University of Warwick, University of Birmingham and University of Leeds etc. have conducted joint cultivation of graduates, who could obtain degree of cooperative high schools and academic qualification of the South University of Science and Technology after meeting graduation standards of both universities and dissertation requirements. For the admission of master graduate students for the joint cultivation between South University of Science and Technology and mainland

universities (referred to as the domestic joint cultivation), two forms of recommended exemption and general

entrance examination are adopted, while two forms of direct pursuing of doctor degree and "application - examination" admission are adopted for graduate students pursing doctor degree, and the best examinees will be admitted. For the admission of doctor graduate students for the joint cultivation between South University of

Science and Technology and overseas universities (referred to as the overseas joint cultivation), the

"Application - Examination" admission is adopted. Currently, all graduate students enrolled by the South

By June 2018, the Southern University of Science and Technology had four doctoral programs in mathematics,

physics, biology, and mechanics. The six master's degree programs were mathematics, physics, chemistry, biology, and mechanics. Electronic Science and Technology, a professional degree is a master's degree in

By June 2018, the Southern University of Science and Technology has four doctoral programs in mathematics,

 $physics, biology, and \, mechanics, six \, master's \, degree \, programs \, in \, mathematics, physics, chemistry, biology, and \, mechanics, six \, master's \, degree \, programs \, in \, mathematics, physics, chemistry, biology, and \, mechanics, six \, master's \, degree \, programs \, in \, mathematics, physics, chemistry, biology, and \, mechanics, six \, master's \, degree \, programs \, in \, mathematics, physics, chemistry, biology, and \, mechanics, six \, master's \, degree \, programs \, in \, mathematics, physics, chemistry, biology, and \, mechanics, six \, master's \, degree \, programs \, in \, mathematics, physics, chemistry, biology, and \, mechanics, six \, master's \, degree \, programs \, in \, mathematics, physics, chemistry, biology, and \, mechanics, six \, master's \, degree \, programs \, in \, mathematics, physics, chemistry, biology, and \, mechanics, six \, master's \, degree \, programs \, mathematics, physics, chemistry, biology, and \, mechanics, six \, mathematics, physics, physics, physics, physics, physics, physi$

mechanics. Electronic Science and Technology, and one professional degree programs in Master of Engineering.

级学科分别为数学、物理学、化学、生物学、力学、电子科学与技术,1个专业学位授权点为工程硕士。





万州技大学和详科学与工程系2018年代系大学生文学

研究方向 RESEARCH DIRECTION







engineering.

研究生为全日制非定向。

海洋化学和微生物学 Marine Chemistry and Microbiology



University of Science and Technology are full-time non-directional.

海洋地球物理学 Marine Geophysics



海洋地质学 Marine Geology



海洋工程技术 Marine Engineering and Technology

研究生会 GRADUATE STUDENT UNION (GSU)







海洋系研究生会成立于2018年10月,通过组织各类学术、文化和体育等活动来争强海洋系研究生之间的交流沟通,促进各位研究生同学的全面发展。研究生会开展了具有海洋系特色的"指南针行动",包括"德育行""智育行""体育行"与"美育行"。

德育行:海洋文化构建,培养海洋情怀。研究生会积极组织大家参加2019中国海洋经济博览会,并在雪龙2号来深之际,参加欢迎中国36次南极考察队活动。

智育行:海洋学术交流、海洋学习传承。研究生会在全校所有学生组织中率先创办了第一届研究生学术论坛,邀请海洋系组织海洋系师生进行海洋科学考查。并联合本科生学生会组织南科大第一届海洋知识竞赛,吸引了全校师生的广泛参与。

体育行:增强身体素质,奉献海洋事业。根据研究生的特点,研究生会分课题组举行3V3篮球比赛,既增强了课题组内部的凝聚力,也促进了各课题组同学之间的友谊。此外还组织大家一起进行CS比赛、趣味排球赛等体育活动。

美育行:提升审美能力,丰富海洋人生。研究生会组织各位研究生同学一起参观关山月 美术馆,参观粤港澳大湾区海图展,征集海洋文化作品并进行展览。





第一届"海洋青年科学家深圳论坛"由南科大海洋系举办,此论坛旨在给来自世界各地的杰出青年学者提供一个相互学 习和交流的平台,提高中国海洋科学交叉研究和技术创新的能力。来自乔治亚大学,华盛顿大学,卡尔加里大学,阿拉巴 马大学,香港大学,浙江大学等国内外高校的18位青年学者就海洋微生物和有机地球化学两个主题做了相关讲座。

The first "Marine Shenzhen Young Scientist Forum" was hold by Department of Ocean Science & Engineering of SUSTech. The forum aims to provide a mutual learning and exchange platform for outstanding young scholars from all around the world to improve the ability of cross research and technological innovation of China's Marine Science. More than 18 young scholars Young scholars gave lectures mainly on two topics: marine microorganisms and organic geochemistry.





2017年5月12日至13日,南科大海洋科学和工程系主办了2017"海洋·地震"青年论坛,此论坛旨在为青年学者提供一 个跟踪"海洋·地震"相关研究方向的最新进展、探讨科研合作及交流的机会。论坛就 "最新的南海IODP航次"、"深部结 构与岩浆形成机制"、"地震学与海洋岩石圈结构"和"俯冲带震源物理"等四个专题来展开。

On 2017 May 12-13, Department of Ocean Science & Engineering of SUSTech hosted the 2017 "Ocean Earthquake" Youth Forum, the forum aims to provide young scholars with a opportunity to track the latest progress of "marine and earthquake related research direction in scientific research, cooperation and exchange. The forum is based on four topics, including "the latest South China Sea IODP voyage", "the deep structure and magmatic formation mechanism", "the seismological and oceanic lithosphere structure", and "the subduction zone source physics".

2018年11月5日-8日,由海洋科学与工程系主办的第四届国际海底峡谷科学大会(INCISE2018)在深圳顺利召开。来自 中国、日本、英国、美国、澳大利亚、西班牙等13个国家和地区的60余名地球科学领域的专家学者齐聚一堂、交流前沿学 术成果,探讨本研究领域的发展前景。海洋科学与工程系徐景平教授为本届会议轮值主席。

Southern University of Science and Technology (SUSTech) Department of Ocean Science and Engineering was the host organization for the 4th International Network for Submarine Canyon Investigation and Scientific (INCISE2018). More than 60 experts from 13 countries and regions attended the conference at Kylin Villa in Shenzhen to exchange cutting-edge academic achievements. It was also an opportunity for attendees to explore development prospects in submarine canyons. Professor Xu Jingping from SUSTech's Department of Ocean Science and Engineering was the rotating chairman for this session.





2019年10月26至27日,由校海洋科学与工程系、深圳古菌地球组学重点实验室、中科院南海海洋研究所、国家自然科学 基金"水圈微生物驱动地球元素循环的机制"重大研究计划项目组联合主办的古菌地球组学国际研讨会(The International Workshop on Geo-Omics of Archaea,简称IWGOA)在南科大顺利举行。此次国际研讨会由海洋科学与 工程系讲席教授张传伦、美国内华达大学拉斯维加斯分校教授Brian Hedlund联合主持。来自中国科学院、北京大学、斯 坦福大学等国内外著名高校及科研机构的100多名专家学者参加了研讨会。

Over the weekend, the Department of Ocean Science and Engineering (OSE) at Southern University of Science and Technology worked with the Shenzhen Key Laboratory of Archaeal Earth, the South China Sea Institute of Oceanology (SCIO) of the Chinese Academy of Sciences (CAS) and the National Natural Science Foundation of China (NSFC) to host the International Workshop on Geo-Omics of Archaea (IWGOA). OSE Professor Zhang Chuanlun co-chaired IWGOA with University of Nevada Las Vegas (UNLV) Professor Brian Hedlund. More than 100 experts & scholars from famous universities and research institutions from around the world attended IWGOA.



2020年1月11-12日,海洋科学与工程系联合香港理工大学可持续发展研究院、土木及环境工程学系共同主办的第三届 复材-海水海砂混凝土结构国际研讨会(Third International Workshop on Seawater Sea-Sand Concrete (SSC) Structures Reinforced with FRP Composites)于在深圳南方科技大学顺利召开。由香港理工大学讲座教授、中国科学 院院士、香港理工大学校长滕锦光教授担任研讨会组织委员会主席;南方科技大学陈建飞教授及香港理工大学余涛教 授担任研讨会组织委员会副主席。

On January 11 and 12, Southern University of Science and Technology (SUSTech) was the host of the 3rd International Workshop on Seawater Sea-Sand Concrete (SSC) Structures Reinforced with FRP Composites (SSC Workshop). Over 200 students and scholars from across China and around the world came to attend the SSC Workshop over the two days.

成立于 2016.12.29

自成立以来,在学校历年基层党组织年终述职考核和标准化建设验收工作中均被评为优 秀,特别是2019年、2020年连续两年被评为南方科技大学先进基层党组织。党支部以创建"学 习型、创新型和服务型"基层党组织为目标,突出海洋科学专业特色。通过多媒体、座谈交流、理

授郭震同志任党支部副书记,王艳、王银美、杨德庭3位同志任支委委员。

现有正式党员43名,预备党员1名。讲席教授刘青松同志任党支部书记,助理教

论研讨、书记党课和集体参观等学习活动形式,认真组织全系师生深入学习贯彻党的十九大精 神,进一步提升学习实效。创新性地率先成立研究生学生会并完成第一届学生代表选举,将基 层党建工作深入到学生群体;搭建高水平学术平台,举办研究生年度学术论坛,增强师生互动, 提高学生学术素养;组织学生参观鸦片战争博物馆、"雪龙二号"极地科考船、海洋经济博览会 等,开展爱国主义教育。在服务方面,利用专业优势,在南科大范围内率先组建了一支教师科普 团队,编辑《十万个高科技为什么》,倡导开设"南方科普大讲堂",至今已在校内外开展100余场 科普讲座,公众参与度高,反响强烈,呈现"南科特色",成为南科大文化品牌之一。

2018.10.30

海洋系党支部牵头成立系研究生 学生会并完成第一届学生代表选



海洋系党支部组织研究生党小组 及研究生会成员到东莞虎门参观 鸦片战争博物馆

2020.04.28 海洋系党组织书记第一堂思政课







▶ 附录一 ▶ 本科生科研课题

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编号 No.	老师 Faculty	课题名 Topic	类别 Type
1	张传伦	基于无人机采水系统的大湾区MGII古菌生态功能检测	国家级"大创"项目
2	刘青松	赤铁矿和针铁矿的物理性质与地磁场关系研究	拟推荐省级"大创"项目
3	陈永顺,郭震	基于地震噪声干涉技术的楼体结构健康监测研究	校级攀登计划
4	张传伦,王浩, 郭静	无人机技术驱动的珠江口盐度梯度下古菌群落结构等时变化规律研究	校级攀登计划
5	刘青松,周祐民	磁性矿物的初始磁性及粒径对其形成沉积剩磁的影响	校级攀登计划
6	李芯芯	深圳湾底泥微生物燃料电池电流输出的影响因素研究	校级攀登计划
7	李芯芯	印度洋莫克兰海沟沉积物中有机物质的活性与应用研究	校级"大创"项目
8	刘志强	粤港澳大湾区风暴潮预报预警系统开发	校级"大创"项目
9	曾芝瑞	新型水母活体探测器的开发与研究	校级"大创"项目
10	李芯芯	海沟沉积物中的微塑料研究:以印度洋莫克兰海沟、智利阿塔卡马海沟、新西兰克玛德克海沟为例	校级"大创"项目
11	刘志强	复杂环流系统控制下的泰国湾水龄及水体滞留时间研究	校级"大创"项目
12	Jason Phipps Morgan	海沟后撤动力学的观测与数值建模探测研究	发论文
13	Jason Phipps Morgan	计算地球动力学: 用于理解不同尺度下地球运作机制的数值建模研究	发论文
14	Jason Phipps Morgan	地球的构造与早期进化的物理-化学模型探索研究	发论文
15	陈建飞	模块化漂浮结构	发论文/创新项目
16	陈建飞	FRP复材在海洋工程中的应用	发论文/创新项目
17	陈建飞	未来漂浮城市	发论文/创新项目
18	刘青松	海洋深渊沉积物复杂性研究	发论文/创新项目
19	刘青松	地磁场变化对磁性矿物合成过程的影响	发论文/创新项目
20	林间	印度洋海啸模拟研究	发论文/创新项目
21	林间	空中-海面-水下三维一体无人飞行器联合科学观测	创新项目/做专利
22	林间	海洋大数据三维可视化应用与科学普及	创新项目/做专利
23	林间	基于水下机器人的粤港澳大湾区环境监测研究	创新项目/做专利
24	徐景平	大沙河南科大段水质环境监测及其影响因素研究	拟申报大创项目
25	徐景平	水下滑翔机(glider)在南海水团研究中的应用	拟申报攀登计划
26	杨挺	新冠病毒让世界安静了: 封城与地球背景噪音的相关性分析	大创/攀登/创新项目
27	杨挺	磐鲲vs磐石:海底底流对OBS记录中的噪音分析	大创/攀登/创新项目
28	侯超	可拆卸式海洋工程结构	发论文/创新项目
29	李莹	无人机海洋大气环境遥感平台的研发与测试	发论文/创新项目 发论文/创新项目
30	李莹	气候变化背景下大气环流年际变化对华南空气质量的影响 深度学习在大气环境卫星遥感中的应用	发论文/创新项目
32	月 日 本民	强可视化和互动性的地质模型研制	发论文/创新项目/做专利
33	周祐民	广东沿海沉积物古风暴与环境变迁研究	及比文/创新项目/成专利 创新项目
34	周祐民	贵州牛坡洞考古遗址洞穴沉积物环境磁学研究	发论文
35	冯兴亚	南海极端波浪实验研究与预测模型开发	发论文/创新项目
36	冯兴亚	基于机器学习的随机波浪载荷研究	发论文/创新项目
37	王誉泽	微生物诱导碳酸盐沉淀-多孔介质相互作用	发论文/创新项目
38	王善注	天然气水合物-多孔介质相互作用	发论文/创新项目
39	・ エミ/キ ・	スペーパロ初・タガガ 原相 旦 IF 用 深海 鱼 雷锚性 能研究	发论文/创新项目
40	(特男) (特男)	自升式钻井平台桩靴上拔性能研究	发论文/创新项目
41	冯伟强	基于新型边孔微结构光纤的孔压传感器的应用研究	发论文/创新项目
41	归作独	在 J 利兰尼J M成石代元针时近江水岛品加州州九	及此又/ 別利 坝日

■ **附录二** ■ 本科生升学资源(联培)

学校 University	我方教师 SUSTech Faculty	对方教师 Overseas Faculty	方向 Research Area	学位、备注 Dr./MS.c.
澳门大学	张传伦	张晓华	生物信息	博士
		Christian Rinke	Phylogeny of archaea	
昆士兰大学	张传伦	Gene Tyson	Molecular microbial ecology	博士
		Phil Hugenholtz	Environmental genomics	
南洋理工大学	刘青松	王先锋	全球变化	博士
台湾海洋大学	周祐民	陈惠芬教授	海洋地质	
香港大学	张传伦	李一良	地球生物学	博士
	刘志强	甘剑平	物理海洋学	博士
香港科技大学	李莹	刘启汉	大气物理与环境	博士
	张传伦	钱培元	海洋生物学	博士
	陈建飞	滕锦光	结构工程	博士
		戴建国	结构工程	博士
		余涛	结构工程	博士
	傅勇	尹振宇	海洋岩土	博士
香港理工大学	冯伟强	殷建华	海洋岩土	博士
	冯兴亚	朱松晔	海上风能	博士
	侯超	余涛	海洋工程结构	博士
	侯超	董优	海洋工程结构	博士
	王誉泽	尹振宇	海洋岩土	博士
新加坡国立大学	冯兴亚	Kok Keng Ang/Low Yin Min	大型海洋工程	博士
英国东英吉利大学	张传伦、	Nikolai Pedentchouk	海洋生物有机地球化学	博士
英国利物浦大学	刘青松	Wyn Williams	磁学模拟	博士
	陈建飞	Susan A. Bernal	工程材料	博士
英国利兹大学	李莹	Martyn Chipperfiled; Wuhu Feng; Graham Mann	海洋大气化学	博士

► 附录三 ■ 本科生升学资源(非联培)

学校 University	我方教师 SUSTech Faculty	对方教师 Overseas Faculty	方向 Research area	国家 Country
Australia National University			Australia	
Boston College	林间	Mark Behn	Marine geophysics	USA
Brown University	Jason Phipps Morgan	Prof. Karen Fischer	Back-arc and Arc Structure in the New Zealand Subduction Zone	USA
Cornell University	Jason Phipps Morgan	Prof. Geoff Abers	Back-arc and Arc Structure in the New Zealand Subduction Zone	USA
Durham University	王誉泽	Paul Hughes	Sustainable infrastructure	UK
Ecole Normale Supérieure de Paris	林间	Javier Escartin	Marine geophysics	France
ENS-Paris	Jason Phipps Morgan	Prof. Luce Fleitout	Constraints from post-seismic deformation on the viscosity of the upper mantle	France
IfM-GEOMAR	Jason Phipps Morgan	Prof. Lars Ruepke	Marine Geodynamics and Hydrothermal Circulation	Germany
MARUM/Bremen	Jason Phipps Morgan	Prof. Marta Gussinye	Formation of Rifted Margins	Germany
National central of oceanography	杨挺	Nick Harmon	Imaging oceanic lithosphere/Noise analysis	UK
	冯兴亚	Kok Keng Ang	Multipurpose offshore structures	Singapore
		Goh Siang Huat	Geotechnical dynamic events	Singapore
National University of Singapore	傅勇	Chian Siau Chen, Darren	Earthquake engineering,ground improvement,remote sensing	Singapore
	1033	KU Taeseo	Geotechnical site characterization,dynamic soil behavior	Singapore
Overage a University Balfact	Π /- 7=≒¬ν	Lee Fook Hou	Soil improvement, underground construction	Singapore
Queen's University Belfast Rice University	陈建飞 Jason Phipps	Marios Soutsos Prof. Richard Gordon	Cementless concrete Plate Motion Kinematics	UK
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Technical University of Denmark	傅勇 冯兴亚	Yuepeng Dong Yanlin Shao	Soil mechanics and constitutive models Hydrodynamics	Denmark Denmark
Universidad Miguel Hernández	张传伦	Francisco Rodriguez-Valera	Marine ecology	Spain
University of Bremen	张传伦	Kai-Uwe Hinrichs	Lipid biogeochemistry	Germany
University of California, Berkeley	王誉泽	Kenichi Soga	Soil and granular mechanics, energy and engineering sustainability, soil-bio interaction	USA
University of California, Davis	王誉泽	Jason DeJong	Bio-mediated and bio-inspired geotechnics	USA
University of Cambridge	王誉泽	Giovanna	Soil dynamics and earthquake engineering,	UK
Cintersity of Cambridge	エロケ	Biscontin	Energy geotechnics	UK
University of Edinburgh	陈建飞	Jin Ooi	Discrete Element modelling of particular materials	UK
University of Georgia in Athens	张传伦	Antonis Giannopoulos William B Whitman	Ground penetrating radar Methane-producing archaea	UK USA
University of Hawaii	林间	Garrett Ito	Marine geophysics	USA
University of Hawaii, Manoa	张传伦	Edward Francis DeLong	Marine geophysics Marine archaea	USA
University of Illinois at Urbana-Champaign	林间	Patricia Gregg	Marine geophysics	USA
University of Minnesota	刘青松	Joshua Feinberg	Rock magnetism	USA
University of Nevada	张传伦	Brian Hedlund	Thermophilic archaea	USA
	冯兴亚	Thomas Adcock	Wave hydrodynamics; tidal energy	UK
University of Oxford	Jason Phipps Morgan	Prof. Karin Sigloch	Seismological investigation of mantle plumes	UK
University of Rhode Island	杨挺	Yang Shen	Marine Geophysics / Earthquake Seismology	USA
University of Southampton	Jason Phipps Morgan	Profs. Tim Henstock and Damon Teagle	Observational constraints on bend-faulting at a subduction zone	UK
University of Sydney	侯超	Luming Shen Hao Zhang	Structural engineering for ocean applications Reliability analysis for ocean structures	Australia Australia
University of Texas at Austin	杨挺	Steve Grand	Earth' s Structure from seismic constraints	USA
University of Victoria	杨挺	Tianhaozhe Sun	Geodynamic Processes in Subduction Zones	CA
University of Washington	张传伦	David A. Stahl	Ammonia-oxidizing archaea	USA
University of Western Sydney	侯超	Zhong Tao	Sustainable composite structures	Australia

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