



HHU-NUS Bilateral Workshop on Coastal Resilience and Sustainable futureE (CoRISE)

Key Laboratory of Ministry of Education for Coastal Disaster and Protection,
Hohai University

🕒 February 17th – 20th 2025
📍 Nanjing, China

河海大学-新加坡国立大学未来韧性海岸 双边学术研讨会

河海大学海岸灾害及防护教育部重点实验室

🕒 2025年2月17-20日
📍 中国·南京



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会议背景

全球气候变化引起海平面持续上升，台风浪和风暴潮频次与强度不断增加，海岸洪水、侵蚀和基础设施破坏等灾害风险显著上升，海岸地区安全与可持续发展面临巨大挑战。开展多学科交叉研究与国际合作，创新工程-自然融合的海岸防护理论与技术，提升海岸应对气候变化的抵抗力、适应力和恢复力，已成为海岸工程研究领域的共识和未来发展方向。

河海大学与新加坡国立大学作为国际知名高校，在海岸灾害的形成机制、灾害评估及保护修复等领域各具优势，并长期保持着密切的交流与合作。2024年10月，河海大学郑金海教授率团访问新加坡国立大学，双方就海岸动力灾害机理研究、新型监测模拟技术研发以及基于自然的海岸韧性提升方案等议题进行了深入探讨，达成了合作意向。

为进一步深化两校在海岸工程领域的学术交流与合作，推动前沿科学研究和成果转化应用，河海大学组织第一届河海大学-新加坡国立大学未来韧性海岸双边学术研讨会，会议将聚焦全球气候变化背景下海岸带安全及可持续发展的挑战，围绕韧性海岸构建的科学理论、创新技术、工程实践和管理策略等议题展开深入研讨。会议将搭建高水平的学术交流平台，分享最新科研成果，探讨未来机遇与挑战，并讨论国际项目联合申报、人员互访交流、科研成果产出与推广等方面的合作。

本次研讨会由河海大学海岸灾害及防护教育部重点实验室主办，得到国家重点研发计划项目“基于自然的海洋动力灾害综合防护关键技术与应用”（2023YFC3007900）的支持。

会议日程

2月17日 / 南京牛首山希尔顿酒店	
14:00-17:30	报到
17:30-20:00	晚餐
2月18日 / 研讨会 / 河海大学水科学研究院501会议室	
上午	
主持人	张继生 教授
08:30-08:35	郑金海校长致辞
08:35-08:40	罗永强主任致辞
主持人	陶爱峰 教授
08:40-09:00	新加坡海岸防护与防洪研究所研究方向介绍
	高赞义 教授
09:00-09:20	海岸带岸基数字影像监测系统
	张 弛 教授
主持人	李玉珠 助理教授
09:20-09:40	从城市土地利用与基础设施规划的角度分析气候变化对城市防洪的影响
	王锦彬 副教授
09:40-10:00	全球热带气旋浪变化趋势研究
	时 健 副教授
主持人	陈伟秋 教授
10:00-10:20	多功能浮式结构在海岸防护中的应用潜力
	钱旭东 副教授
10:20-10:40	牡蛎礁波浪衰减特性与优化布局的实验研究
	陶爱峰 教授

注：每个学术报告包括15分钟汇报和5分钟讨论

参会人员

10:40-11:10	茶歇
主持人	雷家瑞 助理教授
11:10-11:30	海岸工程相关问题中CFD模拟方法新进展
	李玉珠 助理教授
11:30-11:50	消浪平台和护面糙度对海堤越浪的影响
	陈伟秋 教授
主持人	张蔚 教授
11:50-12:10	部分植被覆盖水域的波浪衰减研究
	雷家瑞 助理教授
12:10-12:30	海岸生物动力地貌演变机制与模拟
	周曾 教授
中午	
12:30-14:30	午餐&午休
下午	
14:30-15:20	参观L型风浪流港池及合影
主持人	张弛 教授
15:20-15:30	合作备忘录签约
15:30-17:00	合作讨论
17:30-20:00	晚餐
2月19日	
全天	技术考察
2月20日	
返程	

序号	姓名	工作单位	职称
1	罗永强	新加坡国立大学	教授
2	高赞义	新加坡国立大学	教授
3	王锦彬	新加坡国立大学	副教授
4	钱旭东	新加坡国立大学	副教授
5	李玉珠	新加坡国立大学	助理教授
6	雷家瑞	新加坡国立大学	助理教授
7	郑金海	河海大学	教授
8	张继生	河海大学	教授
9	张弛	河海大学	教授
10	张蔚	河海大学	教授
11	管大为	河海大学	教授
12	孔俊	河海大学	教授
13	陶爱峰	河海大学	教授
14	周曾	河海大学	教授

组织团队

主席

张 弛

秘书处

时 健（秘书长）

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18	童林龙	河海大学	副教授
19	付睿丽	河海大学	副教授
20	范 骏	河海大学	副教授
21	张 炫	河海大学	副教授
22	迟善航	河海大学	博士后
23	张利鹏	河海大学	博士生
24	张 凯	河海大学	博士生
25	杨蕴涵	河海大学	博士生
26	刘 威	河海大学	硕士生
27	孙海飞	河海大学	硕士生
28	程世玺	河海大学	硕士生

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Introduction

Global climate change causes a continuous rise in sea levels, with an increasing frequency and intensity of typhoon waves and storm surges. As a consequence, the risks of coastal flooding, erosion and infrastructure damage have significantly increased. Coastal areas face severe challenges in terms of safety and sustainable development. Developing innovative green-grey hybrid coastal protection theories and technologies through multidisciplinary research and international collaboration to enhance coastal resilience, adaptability, and recovery in response to climate change, has become a consensus and future development direction in the field of coastal engineering.

Hohai University (HHU) and National University of Singapore (NUS), as internationally renowned institutions, each possess distinct strengths in the fields of coastal hazard mechanisms, disaster assessment and ecological restoration. These two universities have maintained close collaboration for years. In October 2024, Professor Jinhai Zheng from HHU led a delegation to NUS, where both institutions held in-depth discussions on key topics, including mitigation of coastal hazards, advancement of monitoring and modelling technologies, and implementation of nature-based solutions. The meetings culminated in a mutual agreement to pursue collaborative efforts.

To further strengthen academic exchange and cooperation in the field of coastal engineering, and to promote the dissemination and application of research findings, Hohai University is hosting the first HHU-NUS Bilateral Workshop on Coastal Resilience and Sustainable futurE (CoRISE). This event will focus on the safety and sustainable development of coastal areas in the context of climate change and will explore scientific knowledge, innovative technologies, engineering practices, and management strategies related to resilient coastal development. It aims to establish a high-level platform for academic discussions and explore future opportunities and challenges. Additionally, the workshop will discuss cooperation in areas such as joint applications for international projects, personnel exchanges, and the dissemination of research outcomes.

This workshop is organized by the Key Laboratory of Ministry of Education for Coastal Disaster and Protection, Hohai University and is supported by the National Key Research and Development Program "Integrating Natural and Artificial Technologies for Coastal Disasters Reduction (NATCDR)" (2023YFC3007900).

Agenda

17th February / Hilton Hotel (Nanjing Niushou Mountain)	
14:00–17:30	Reception
17:30–20:00	Dinner
18th February / Workshop / Institute of Water Science and Technology of HHU, Room 501	
Morning Session	
Chair	Professor Zhang Jisheng
08:30–08:35	Welcome Speech by HHU President Zheng Jinhai
08:35–08:40	Speech by Director Law Wing Keung, Adrian
Chair	Professor Tao Aifeng
08:40–09:00	Overview of Research at Coastal Protection and Flood Resilience Institute (CFI) Singapore
	Professor Koh Chan Ghee
09:00–09:20	Coastal Shore-based Video Imagery Monitoring System
	Professor Zhang Chi
Chair	Assistant Professor Li Yuzhu
09:20–09:40	Impact of Climate Change and Flooding in Cities: Perspectives from Urban Land Use and Infrastructure Planning
	Associate Professor Ong Ghim Ping
09:40–10:00	Global Increase in Tropical Cyclone Ocean Surface Waves
	Associate Professor Shi Jian
Chair	Professor Chen Weiqiu
10:00–10:20	Potential of Multi-Functional Floating Structures for Coastal Protection
	Associate Professor Qian Xudong
10:20–10:40	Experimental Investigation on Wave Attenuation Characteristics and Optimal Layout of Oyster Castles
	Professor Tao Aifeng

Note: Each talk includes 15-minute presentation and 5-minute discussion

Participants

10:40–11:10	Tea Break
Chair	Assistant Professor Lei Jiarui
11:10–11:30	Recent Advances of CFD Modelling for Coastal Engineering Problems
	Assistant Professor Li Yuzhu
11:30–11:50	Effects of A Berm and Roughness on Wave Overtopping at dikes
	Professor Chen Weiqiu
Chair	Professor Zhang Wei
11:50–12:10	Wave Attenuation over Partially Vegetated Waters
	Assistant Professor Lei Jiarui
12:10–12:30	Coastal Biomorphodynamics and Numerical Modelling
	Professor Zhou Zeng
Noon Session	
12:30–14:30	Lunch & Break
Afternoon Session	
14:30–15:20	Lab Tour on L-shape Wind-wave-current Basin and Group Photo
Chair	Professor Zhang Chi
15:20–15:30	Signing of MOU
15:30–17:00	Discussion on Collaboration
17:30–20:00	Dinner
19th February	
All Day	Technical Excursion
20th February	
Departure	

No.	Name	Affiliation	Title
1	Law Wing Keung, Adrian	National University of Singapore	Professor
2	Koh Chan Ghee	National University of Singapore	Professor
3	Ong Ghim Ping	National University of Singapore	Associate Professor
4	Qian Xudong	National University of Singapore	Associate Professor
5	Li Yuzhu	National University of Singapore	Assistant Professor
6	Lei Jiarui	National University of Singapore	Assistant Professor
7	Zheng Jinhai	Hohai University	Professor
8	Zhang Jisheng	Hohai University	Professor
9	Zhang Chi	Hohai University	Professor
10	Zhang Wei	Hohai University	Professor
11	Guan Dawei	Hohai University	Professor
12	Kong Jun	Hohai University	Professor
13	Tao Aifeng	Hohai University	Professor
14	Zhou Zeng	Hohai University	Professor

Organizing Committee

Chair

Zhang Chi

Secretariat

Shi Jian (SG)

Sui Titi	Chen Weiqiu	Chi Shanhang	Liu Jianhao
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19	Fu Ruili	Hohai University	Associate Professor
20	Fan Jun	Hohai University	Associate Professor
21	Zhang Xuan	Hohai University	Associate Professor
22	Chi Shanhang	Hohai University	Postdoc
23	Zhang Lipeng	Hohai University	PhD Candidate
24	Zhang Kai	Hohai University	PhD Candidate
25	Yang Yunhan	Hohai University	PhD Candidate
26	Liu Wei	Hohai University	Graduate Student
27	Sun Haifei	Hohai University	Graduate Student
28	Cheng Shixi	Hohai University	Graduate Student

