

**8th Society for Underwater Technology (SUT) Technical Conference
and**

Symposium of Ship and Marine Engineering Equipment

(Fourth Notice)

Zhoushan, China

I. Time and Place of Conference

September 18-22, 2019 (Registration starts September 18)

Zhoushan Fortune Grand Hotel, No.29 Haiyu Road, Lincheng new district,
Zhoushan City, Zhejiang, China.

II. Host and Co-Organizers

Host: SUT China branch

Organizer: Zhejiang Ocean University

Co-Organizers: China University of Petroleum (Beijing)

Ocean College, Zhejiang University

Chinese Society of Theoretical and Applied Mechanics

Support-Organizer: Zhejiang Natural Science Foundation Committee

III. Technical Committee

➤ **Chairmen**

Desen Yang, Technicalian, Harbin Engineering University

Yaofeng Cao, Technicalian, Sinopec Group Corporation

Hengyi Zeng, Technicalian, China National Offshore Oil Corporation (CNOOC)

➤ **Vice Chairmen**

Decheng Wan, Professor, Shanghai Jiaotong University.

Shixiao Fu, Professor, Shanghai Jiaotong University.

Dongchang Sun, Senior Engineer Professor, Sinopec Shengli Oilfield
Engineering Company

Xiaobin Li, Professor, Wuhan University of Technology.

Qingping Li, Chief Engineer, CNOOC Research Institute.

Dagang Zhang, CEO, USA Dmar Engineering Corporation (Qingdao).

Chaohe Chen, Professor, South China University of Technology.

Ying Chen, Professor, Zhejiang University

Frank Lim, Professor, President of SUT China Branch.

Pengzhi Lin, Professor, Sichuan University.

Menglan Duan, Professor, China University of Petroleum (Beijing).

Hongde Qin, Professor, Harbin Engineering University.

Hongbin Gui, Professor, Harbin Institute of Technology (Weihai).

Youngang Tang, Professor, Tianjin University.

Weiping Huang, Professor, Ocean University of China.

Weicheng Cui, Professor, Westlake University.

Yonghe Xie, Professor, Zhejiang Ocean University.

De Xie, Professor, Huazhong University of Science and Technology.

Chunyan Ji, Professor, Jiangsu University of Science and Technology.

Bin Teng, Professor, Dalian University of Technology.

Guang Pan, Professor, Northwestern Polytechnical University.

➤ **Committee Members**

Chen An, Weizheng An, Chunsheng Wang, Guangming Fu, Huanwen Liu, Jun Yan, Yu Zhang, Zhaode Zhang, Changzhi Zhang, Zhengshou Chen, Hao Zheng, Wanhai Xu, Shunfeng Gong, Xiwu Gong, Xu liang, Peng Xie, Baoping Cai,.

IV. Organization Committee

➤ **Chairman:**

Frank Lim

➤ **Executive Chairman:**

Yonghe Xie

➤ **Vice- Chairman:**

Zhengshou Chen

➤ **Secretary:**

Xinglan Bai, Qingmei Gu

➤ **Members:**

Lijun Wang, Junkai Feng, Yonghua Ren, Junpeng Liu, Lei Li, Jiping Zhang
Zhaode Zhang, Yan Zhang, Yunxing Hao

V. Subject

Founded in 1966 and headquartered in London, United Kingdom, the Society for Underwater Technology (SUT), <http://www.sut.org.uk>, is the most influential

technical organization in the world of underwater engineering, and is a multidisciplinary society that brings together institutions and individuals concerned with underwater technology, marine science and marine engineering. The SUT Technical Conference was initiated by SUT China Branch and 7 sessions have been successfully held since 2012 in Shenzhen, Shanghai, Qingdao, Beijing, Haikou and Beijing, which have been highly recognized by experts and scholars. To practice the national strategy and promote the development of Zhejiang marine economy, the first symposium on ship and marine engineering equipment will be held in Zhejiang Ocean University. It will focus on how to give impetus to ship and marine engineering industrial transformation and upgrading, improve the quality of personnel training and how to improve the ability to serve local economy, and discuss the future of marine engineering equipment and the development direction and the key problem of high technology ship.

With the subject of "strengthening the development and utilization of marine space through scientific and technological innovation", this technical conference will be held in Zhoushan , a beautiful island city on the coast of the East China sea, located at the intersection of coastline and the Yangtze river. The conference will be organized by Zhejiang Ocean University, hosted by SUT China branch, and co-organized by China University of Petroleum (Beijing), Marine Institute, Zhejiang University, and China Society of Theoretical & Applied Mechanics. The conference will invite well-known experts from the UK, Singapore, Brazil, Malaysia, South Korea, Russia, etc, as well as famous domestic scholars from China Academy of Engineering, China National Offshore Oil Corporation Research Institute, Shanghai Jiaotong University, Sichuan University, Dalian University of Technology, etc. The conference will be Sponsored by Zhejiang Ocean University, Zhoushan Government, Zhejiang Natural Science Foundation Committee and related enterprises as an international and authoritative technical conference on underwater technology of marine engineering, and build a technical platform for interaction and exchange between domestic and foreign scholars. The topics could be as:

- Subsea production system
- Structure, safety, reliability
- New ship and deepwater offshore platform
- Risers and pipelines
- Intelligent manufacturing of marine engineering equipment
- Hydrate mining technology and equipment
- Construction and application of ocean big data platform

- High performance materials
- Coastal technology and ocean engineering
- Polar hydrocarbon development
- Petroleum engineering
- Marine engineering test technology

VI. Invited Keynote Speeches

Number	Name	Organization	Topic of Presentation
1	Yaofeng Cao, Technician	Sinopec Group Corporation	Sinopec Offshore Oil and Gas Exploration and Development Equipment
2	Murilo Augusto Vaz, Xiaotian Li	Federal University of Rio de Janeiro	Analytical Model for Flexible Pipe Armor Wire Lateral Instability
3	Oleh V Lychak	Institute of Physical Machinery, National Academy of Sciences of Ukraine	Speckle-Correlation System for Local Corrosion Evaluation in Water/Underwater Environment
4	Stephen Hall	Society for Underwater Technology	Adaptation of Current Underwater Technology for the Offshore Renewable Energy Sector
5	Ricky Thethi	Clarus Integrity Management	Digital Transformation in Subsea Integrity Management
6	YEGOR LUCHENKO V	Institute of Materials Studies, National Academy of Sciences of Ukraine	Application of Artificial Intelligence and Finite Element Method for the Design of Marine Propulsion Units and the Reduction of Noise and Vibration

7	KARAN KAKER	Technical Manager at 2H Offshore	Steel Catenary Risers: Here to Stay
8	Guang Pan	Northwestern Polytechnical University	The Current Status and Key Technology of Underwater Unmanned System
9	Shixiao Fu	Shanghai Jiaotong University	Hydrodynamics of Risers Under VIV
10	Chaohe Chen	South China University of Technology	Technical Challenges for Offshore Flexible Pipeline and Applied Research in Deep-water
11	Bin Teng	Dalian University of Technology	Potential Methods for Wave Loads on Marine Structures
12	Ying Chen	Zhejiang University	AUH, Autonomous Underwater Helicopter
13	Weicheng Cui	Westlake University	On a General System Approach to Push Forward the Project of Constructing a Comprehensive Investigation System for Hadal Trenches
14	Frank LIM	China University of Petroleum - Beijing, China; 2H offshore, UK	Deep Sea Mining: Technological Challenges
15	Huanwen Liu	Zhejiang Ocean University	LHWS Law of Bragg Resonances for Linear Long Waves Propagating Over Two Dimensional Periodic Structures

16	Qingping Li	CNOOC Research Institute	To be Advised
17	Zhengshou Chen	Zhejiang Ocean University	To be Advised
To be Updated			

VII. Schedule

Date	Time frame	Details	Conference Venue
Sep.18, 2019	Whole Day	Registration	Conference Rooms on the Second Floor, Zhoushan Fortune Grand Hotel
	Evening	Committee Meeting of SUT China Branch	
Sep.19, 2019	Morning	Opening Ceremony and Invited Keynote Speeches	
	Afternoon	Keynote Speeches	
Sep.20, 2019	Whole Day	Paper Presentations	
Sep.21, 2019	Morning	Paper Presentations	
	Afternoon	Paper Presentations Naval Architecture and Marine Engineering	
Sep.22, 2019	Whole Day	Tour and Departure	

VIII. Accommodation and Distance

Hotel Name	Distance	Cost
Zhoushan Fortune Grand Hotel	0	420 RMB
Nanyang International Hotel	1.1 km	420 RMB

Notes:

1. Zhoushan Fortune Grand Hotel is the conference venue.
2. As it is the tourist season, please book the hotel in advance.
3. The hotel does not provide disposable toiletries. Please bring your own.

IX. Exhibition

During the conference, marine engineering equipment, marine high-tech

equipment exhibition, product demonstration and other exhibition will be held. We warmly welcome the research, development, production and application of new materials, new technologies and new equipment in the field of Marine engineering equipment to participate in technical exhibitions.

Options are (you can choose one or more of them, fees available on request):

1. Provide exhibition stands and display promotional materials of enterprises;
2. Provide tea break and put corporate publicity materials into bags;
3. Give corporate presentations in the main venue or sub-venue (within 15 minutes).

X. Registration

➤ **Online Registration Address:** <http://www.sutchina.org/>

➤ **Conference Fees**

- Early bird: 2500 RMB (before August 18, 2019)
Standard: 3200 RMB (after August 18, 2019)
Student: 1500 RMB (provide valid student ID)

➤ **Payment Methods**

Method 1: Online transaction. (1) online bank transfer and save pictures of bank electronic receipt; (2) fill in the application form online; (3) the staff shall verify whether the funds have been received; (4) inform the applicant of the approval

Method 2: Pay online. Complete registration by filling in participant information online and paying online.

Method 3: On-site registration 3500 RMB/person

➤ **Ticket benefits include**

1. Participate in the opening ceremony and all sessions during the conference
2. Visit the exhibition area
3. Lunche, dinner and coffee breaks (September 19, 20, 21)

XI. Conference essay

1. Subsea production system
2. Structure, safety, reliability
3. New ship and deepwater offshore platform
4. Risers and pipelines
5. Intelligent manufacturing of marine engineering equipment
6. Hydrate mining technology and equipment
7. Construction and application of ocean big data platform
8. High performance materials

9. Coastal technology and ocean engineering
10. Polar hydrocarbon development
11. Petroleum engineering
12. Marine engineering experimental techniques

XII. Abstract submission

1. All presentations will be in English.
2. The content of the presentation shall relate to one or more of the conference topics, highlighting the innovation and achievement in the field of underwater technology, ship and offshore engineering equipment, and has important technical and application values. It should not have been published or presented in conferences at home and abroad.
3. The abstract format can be found at <http://www.sutchina.org/>, which is also the submission and registration website (file name format: paper name + author + organization, WORD version).
4. Deadline for abstract submission: August 31, 2019.

XIII. Paper publication

Those presenters who wish to write and publish a paper can do so for review, and possible inclusion in the SUT UK Underwater Technology Journal.

XIV. Contact

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 Zhejiang, 316022 China

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Organizing Committee for the 8th SUT Technical Conference

August 29, 2019