



**2021 船舶海洋与建筑工程学院
思源国际青年学者论坛**

**Si Yuan Global Young Scholars Forum
2021**

Organized by

School of Naval Architecture, Ocean and Civil Engineering,
Shanghai Jiao Tong University

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Overview

Situated in Shanghai, the most renowned center of China's economy, transport, technology, industry, finance and shipping, Shanghai Jiao Tong University (SJTU) has been playing an important role in the world and achieved tremendous success through its own history in the last 120 years. Today, SJTU has become a comprehensive, research-oriented and international university after going through these extraordinary years.

With a sense of gratitude and responsibility, School of Naval Architecture, Ocean & Civil Engineering (NAOCE), while continuing to uphold the tradition and motto of SJTU, is proud to set benchmarks for China's naval architecture and ocean engineering in modern education and scientific research. It consists of 4 departments including Naval Architecture & Ocean Engineering, Engineering Mechanics, Civil Engineering and Transportation Engineering.



The School features two “Double First-class” disciplines by Ministry of Education of the People's Republic of China (Naval Architecture & Ocean Engineering and Civil Engineering), two “State Key” disciplines (Naval Architecture and Ocean Engineering, and Mechanics), and two “Shanghai Key” Disciplines (Fluid Mechanics and Geotechnical Engineering). NAOCE also welcomes postdoctoral research fellows to work with our distinguished professors in the research fields of Mechanics, Naval Architecture & Ocean Engineering and Civil Engineering. Remarkably, Naval Architecture and Ocean Engineering has been topped the ranking in 2020 Shanghai Ranking's Global Ranking of Academic Subjects for four consecutive years since 2017. Besides, it was also awarded "A+", the highest grade, in the fourth round of national subject evaluation. Engineering Mechanics, with its leading comprehensive strength, is one of the most complete disciplines of the same kind in China. Civil Engineering rose to 29th in 2020 QS World University Rankings. Transportation Engineering was ranked the 6th in 2020 Global Ranking of Academic Subjects of Shanghai Ranking.




To date, NAOCE has made tremendous amount of breakthrough achievements in various research fields and has congregated the most powerful research force in China by establishing the Collaborative Innovation Center for Advanced Ship and Deep-Sea Exploration, State Key

Laboratory of Ocean Engineering, National Large-scale Scientific Facility Center of Deepwater Technology Experiments and providing many high-level research platforms.

For the purpose of optimizing the faculty structure and the construction of high-level teaching faculty, NAOCE has always been providing top strategic priorities to faculty development over the years. In order to implement the strategy of enhancing NAOCE by attracting all of the talents that it has to offer, we sincerely invite young talented scholars from all over the world to attend “Si Yuan Global Young Scholars Forum 2021”, an advanced exchange platform designed for young talents in relative disciplines and fields. In the spirit of being world first class, we will jointly discuss some most popular issues in the academic frontier; promote exchanges and collaborations by means of keynote speech, academic discussions and lab visits.

Who Should Attend

Those conducting researches in the areas of naval architecture & ocean engineering, engineering mechanics, civil engineering, transportation engineering, and other related fields and satisfying the following criteria:

-  Under 40 years old (including 40),
Obtained a PhD degree;
-  Gained research achievements in Naval Architecture & Ocean Engineering,
Mechanics, Civil Engineering, Transportation Engineering and related fields
or enjoys development potential;
-  Possessing a strong academic potential and demonstrated interest in education
and scientific research in academia.

Program

The forum will be held in conjunction with Zhi Yuan International Young Scholars Forum of Shanghai Jiao Tong University. The opening ceremony is tentatively scheduled on November 20th, 2021.

The detailed schedule of the forum will be available soon.

Registration

Registration Process

Submit the application form and upload a curriculum vitae (CV) **before December 1st, 2021.**

Forum Topics

The forum focuses on Naval Architecture & Ocean Engineering, Engineering Mechanics, Civil Engineering and Transportation Engineering. The following are examples of specific topics in each academic subject.

Naval Architecture & Ocean Engineering

- **Non-linear Mechanics and Fluid-structure Interaction Theory**
- **Technology of intelligent ship**
- **Ocean Engineering Equipment and Technology**
- **Underwater Detection and Operation**
- **Ocean Renewable Energy and low carbon power technology**
- **Underwater Acoustic Engineering**

Engineering Mechanics

- **Mechanical Behavior of Advanced Materials and Structures**
- **Hydrodynamics**
- **Multibody System Dynamics and Control**
- **Experimental Mechanics**
- **Biological Fluid Mechanics**

Civil Engineering

- **Digital Construction and Maintenance Techniques in Civil Engineering**
- **Offshore Geotechnical and Structure Engineering**
- **Novel Materials and Structures in Civil Engineering**
- **Underground Space Development and Geotechnical Disaster Prevention**

Transportation Engineering

- **Smart Shipping and Modern Logistics**
- **Urban and Rural Transportation Planning and Governance**
- **Smart Transportation and Transport Environment**
- **Green Transportation Infrastructure Construction and Management**

Contacts

Any subject-related query, please contact the respective subject head:

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船舶海洋与建筑工程学院 思源国际青年学者论坛

位于中国最重要的经济、交通、科技、工业、金融和航运中心—上海交通大学，风云两甲子，弦歌三世纪，经过一百二十五年的峥嵘岁月，已经成为一所综合性、研究型并具有重要国际影响力的高等学府。饮水思源，爱国荣校。船舶海洋与建筑工程学院秉承交大的优良传统与办学理念，是中国船舶与海洋工程领域现代教育和科研的策源地，下设船舶与海洋工程系、工程力学系、土木工程系和交通运输工程系 4个系，拥有2个教育部“双一流”建设学科（船舶与海洋工程、土木工程）、2个一级学科国家重点学科（船舶与海洋工程、力学）、2个上海市重点学科（流体力学、岩土工程），并建有力学、船舶与海洋工程、土木工程博士后流动站。船舶与海洋工程学科在2020年软科世界一流学科排名中连续四年蝉联世界第一，并在全国第四轮学科评估中获评最高“A+”等级；工程力学学科是国内高校力学专业最齐全的院系之一，综合实力位于国内前列；土木工程学科在2020年QS全球学科排名中名列第29位，国内位列第二；交通运输工程学科在2020年软科世界一流学科排名中名列第6位。



多年以来，学院始终将师资队伍建设和摆在优先战略地位，致力于师资队伍结构的优化，建设高水平师资队伍。为进一步推进“人才强院”战略，纳百川之志，聚群贤英才，上海交通大学船舶海洋与建筑工程学院诚挚邀请海内外青年才俊参加“船舶海洋与建筑工程学院全球青年学者思源论坛”，旨在为海内外相关学科领域的优秀青年学者搭建高端学术交流平台，通过主题报告、学术研讨和参观考察等形式，共同探讨学术前沿热点问题，促进交流与合作，共创世界一流。

论坛主题

本次论坛围绕船舶与海洋工程、工程力学、土木工程和交通运输工程四个学科及以下领域：

船舶与海洋工程

- 非线性力学与流固耦合理论
- 智能船舶技术
- 海洋工程装备与技术
- 水下探测与作业
- 海洋可再生能源与低碳动力技术
- 水声工程

工程力学

- 先进材料与结构的力学行为
- 水动力学
- 多体系统动力学与控制
- 实验力学
- 生物流体力学

土木工程

- 土木工程数字化建造与运维
- 海洋岩土与结构工程
- 土木工程新材料与新型结构
- 地下空间开发与岩土防灾减灾

交通运输工程

- 智慧航运与现代物流
- 城乡交通规划与治理
- 智慧交通与交通环境
- 绿色交通设施建造与管理

报名条件

年龄不超过40周岁(含)，已获得博士学位，在船舶与海洋工程、工程力学、土木工程、交通运输工程等相关学科领域取得一定成绩或具有发展潜力的优秀青年学者。有很强学术潜力并有志在高校从事教学和科研工作。

报名方式

2021年12月1日前完成网上报名并上传个人简历等材料。

日程安排

我院本届思源论坛将结合我校第二届致远国际青年学者论坛进行，开幕式暂定在11月20日。论坛详细日程安排将于近期公布。

联系方式

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