

办事指南

Their guide

分类导航

- 党政综合办公室
- 实验室与资产管理办公室
- 人力资源办公室
- 科研与学科办公室
- 教务办公室
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 - 人员介绍
 - 规章制度
 - 相关下载
- 学生工作办公室
- 国际化与对外发展办公室

通知公告

您的位置是: [首页](#) > [办事指南](#) > [教务办公室](#) > [通知公告](#)

2016 International Summer School on Naval Architecture, Ocean Engineering and Mechanics

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I. Overview

Naval Architecture and Ocean Engineering covers a wide range of knowledge and emphasizes both theory and practice. It combines scientific principles, innovation, imagination, tempered by fundamentals of mathematics, physics, mechanics, oceanography, etc. New concepts, technologies and methodologies on the subject are constantly emerging. Since 2009 the International Summer School on Naval Architecture, Ocean Engineering and Mechanics has provided a valuable learning and communicating opportunity for students to broaden the vision and enrich the experience. It has built a good reputation among scholars, researchers and students in the related fields.

From July 26, 2015 to August 9, 2015, we successfully organized the 2015 International Summer School on Naval Architecture, Ocean Engineering and Mechanics. During the two-week program, 300 graduate students and senior undergraduates from Mainland China, Taiwan, U.K., Italy, Germany, Japan, Korea, India, Pakistan, Vietnam, Kingdom of Saudi Arabia, United Arab Emirates, and 12 domestic universities enrolled in the summer school. Participants attended lectures given by 29 specially invited distinguished experts and scholars from U.S.A., U.K., France, Japan, Korea, United Arab Emirates and some domestic universities. They also participated in various hands-on professional practice and enjoyed cultural activities.

Endorsed by the former experience, the 2016 Summer School will continue to offer high-quality lectures and seminars in various topics including the latest theories and applications on naval architecture, ocean engineering and mechanics given by world-class professionals and researchers. Besides the academic programs, we also offer many social activities including excursions, sports and gatherings. The 2016 Summer School is hosted by School of Naval Architecture, Ocean and Civil Engineering, Shanghai Jiao Tong University, Collaborative Innovation Center for Advanced Ship and Deep-Sea Exploration, Editorial Board of Journal of Hydrodynamics (JHD), and Young Scholars and Students Working Committee of Shanghai Society of Mechanics. Special thanks to Graduate School of Shanghai Jiao Tong University for its sponsorship.

Based on its international and interdisciplinary background, we hope to build a good platform for participants to get insights of the latest trends, to enrich the knowledge on the subjects, to network with other professionals, and to have deep understanding of our school culture as well as the culture in Shanghai and China. The lectures, seminars and social activities can inspire the students' initiatives and creativities. In addition, the summer school will also enhance the branding of Collaborative Innovation Center for Advanced Ship and Deep-Sea Exploration and boost the talent development and internationalization of teaching, which contributes to our goal of creative talent cultivation reform.

II. Date and Venue

Date: July 24, 2016 – August 7, 2016

Venue: Ruth Mulan Chu Chao Building, laboratories, museums, etc.

III. Course Contents and Practical Activities

Lectures, seminars, field trips to research institutions and enterprises, posters exhibition, study tour of museums and culture, scientific research in the labs under the supervision of Chinese professors at SJTU, courses of Chinese culture and Chinese language, etc.

IV. Eligibility

Postgraduate students, Ph.D students and senior undergraduate students, who are interested in the theories and applications on Naval Architecture, Ocean Engineering and Mechanics.

V. Invited Professors

No.	Name	Expertise	Institute	Country
1	Bernard Molin	Professor of Marine Hydrodynamics	Ecole Centrale Marseille	France
2	Robert F. Beck	Professor of Naval Architecture and Ocean Engineering	University of Michigan, Ann Arbor	USA
3	Atilla Incecik	Professor of Ocean Engineering	University of Strathclyde	UK
4	Alessandro Iafrafi	Research Scientist of CFD	INSEAN	Italy
5	Jun Zhang	Professor of Ocean Engineering	University of Texas A&M	USA
6	Qing Xiao	Reader of CFD	University of Strathclyde	UK
7	Ronald W. Yeung	Professor of Hydrodynamics	University of California, Berkeley	USA
8	Wooyoung Choi	Professor of Nonlinear Wave Dynamics	University of New Jersey Institute of Technology	USA
9	Chi Yang	Professor of Marine Hydrodynamics	George Mason University	USA
10	Harry Bingham	Professor of Marine Hydrodynamics	Technical University of Denmark	Denmark
11	Zhiming Yuan	Lecturer of Marine Hydrodynamics	University of Strathclyde	UK
12	Qianxi Wang	Professor of Hydrodynamics (Recommended by JHD)	University of Birmingham	UK
13	Yonghwan Kim	Professor of marine hydrodynamics	Seoul National University	South Korea
14	Tetsuo Okata	Professor of ship structure	Yokohama National University	Japan
15	Takechiro Higuchi	Professor of aerospace engineering	Yokohama National University	Japan
16	Shijun Liao	Professor of Nonlinear Mechanics	Shanghai Jiao Tong University	China
17	Xinshu Zhang	Professor in Naval Architecture and Marine Hydrodynamics	Shanghai Jiao Tong University	China
18	Decheng Wan	Professor of Numerical Basin	Shanghai Jiao Tong University	China
19	Ning Ma	Professor of Ocean Waves and Sea-keeping	Shanghai Jiao Tong University	China
20	Dongqiang Lu	Professor of Hydrodynamics (Recommended by JHD)	Shanghai University	China
21	Chao Sun	Professor of Hydrodynamics (Recommended by JHD)	Tsinghua University	China
22	Xiyun Lu	Professor of Hydrodynamics (Recommended by JHD)	University of Science and Technology of China	China
23	Chenjun Yang	Professor of Ship Propulsion	Shanghai Jiao Tong University	China
24	Zhong Shi	Professor of Coastal Hydrodynamics	Shanghai Jiao Tong University	China
25	Pengzhi Lin	Professor of fluid mechanics	Sichuan University	China
26	Hua Liu	Professor of Hydrodynamics	Shanghai Jiao Tong University	China
27	Pizhong Qiao	Professor of Solid Mechanics	Shanghai Jiao Tong University	China
28	Yong Bai	Professor of Ocean Engineering	Zhejiang University	China

VI. Fees

1. Tuition: RMB 1,000 per student. (Participants who successfully completed the program will be presented with certificates indicating their contribution to the International Summer School.)
2. Accommodation: According to the standards of dormitory for foreign students, it is about RMB 60 per student per day.

VII. Scholarship

1. Amount: RMB 1,000 per student
2. Percentage: $\geq 80\%$ of all enrolled.
3. Content: tuition waiver. (The Summer School will also cover the costs of lecture materials, transportation fees for collective activities, etc.)

VIII. Applications

If you are interested in the 2016 International Summer School on Naval Architecture, Ocean Engineering and Mechanics, please contact Ms Rao and send your application to raoqing@sjtu.edu.cn before June 20, 2016.

More information can be found via this link:

<http://naoce.sjtu.edu.cn/bkstz/3936.html>

请中国学生浏览<http://naoce.sjtu.edu.cn/bkstz/4282.html>

Director: Prof. Xinshu Zhang

Contact: Ms. Rao

Email: summerschoolsjtu@sina.com

Tel: +86 21 34207195

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

Collaborative Innovation Center for Advanced Ship and Deep-Sea Exploration

Editorial Board of *Journal of Hydrodynamics*

Young Scholars and Students Working Committee of Shanghai Society of Mechanics

Sponsored by Graduate School of Shanghai Jiao Tong University

Agenda (Tentative)

July 24, 2016 – August 7, 2016

Day	Date	Event	Remarks
1	Jul 24 Sun	Registration and networking, accommodation check-in	Ruth Mulan Chu Chao Building
2	Jul 25 Mon	Visit Minhang campus, the history and achievements exhibition hall, Zhu Mulan memorial hall, Li Zhendao Library, deep-water basin, internal wave flume, wind tunnel, circulating water channel, multi-functional towing tank and virtual displaying systems lab	Lunch at dining hall Welcome Banquet
3	Jul 26 Tue	Lectures from professors of naval & ocean engineering and civil engineering	Lunch at dining hall
4	Jul 27 Wed	Lectures from professors of naval & ocean engineering and civil engineering	Lunch at dining hall
5	Jul 28 Thu	Academic discussions(Poster session, postgraduates of SJTU and YNU presentation, 14 students)	Lunch at dining hall
6	Jul 29 Fri	a.m. Academic lectures from professors of naval & ocean engineering, civil engineering, and introduction of Journal of Hydrodynamics p.m. Sports activities, including table tennis, badminton, basketball, soccer, swimming, etc.	Lunch at dining hall
7	Jul 30 Sat	Free activity	
		Lectures from professors of naval & ocean engineering and civil engineering	

8	Jul 31 Sun		Lunch at dining hall
9	Aug 1 Mon	Lectures from professors of naval & ocean engineering and civil engineering	Lunch at dining hall
10	Aug 2 Tue	a.m. visit Xuhui campus, museum, and Qian Xuesheng Library p.m. visit the ocean engineering basin, the ship model towing tank, the old library, and the university history museum	Lunch at dining hall at SJTU Xuhui Campus
11	Aug 3 Wed	Lectures from professors of naval & ocean engineering and civil engineering	Lunch at dining hall
12	Aug 4 Thu	Lectures from professors of naval & ocean engineering and civil engineering	Lunch at dining hall
13	Aug 5 Fri	Lectures from professors of naval & ocean engineering and civil engineering	Lunch at dining hall
14	Aug 6 Sat	Poster session and discussions, summer school party	Closing Ceremony
15	Aug 7 Sat	End of the summer school, airport transportation for the professors, and participants leave	

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