



2017 TSINGHUA INTERNATIONAL SUMMER SCHOOL

— ENVIRONMENT

August

06
2017

August

19
2017

TSINGHUA UNIVERSITY





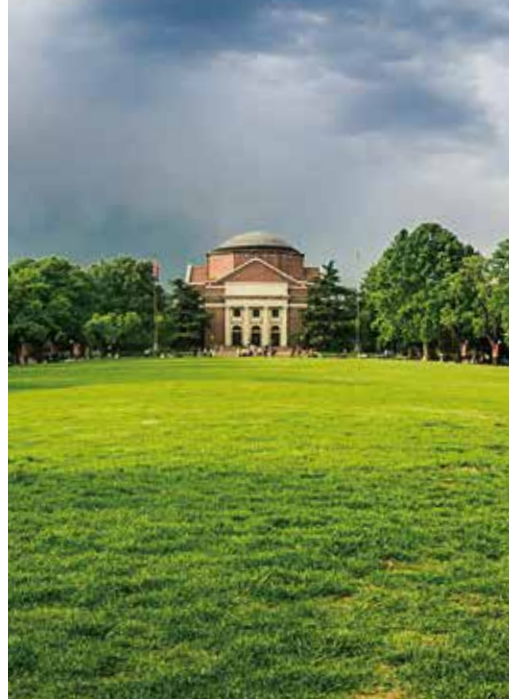
ABOUT THE PROGRAM

Since its inaugural program in 2013, the aim of the international summer school has been to give students from all around the world the opportunity to acquire a deeper understanding of China's current environmental challenges. The rapid development of China's economy in recent years has been accompanied by an energy crisis and severe environmental degradation. It is more important than ever to use creativity and innovation to resolve the potential conflict between economic development and

environmental conservation. The 2017 international summer school equips students in their search for environmental solutions through lectures and discussions led by faculty and guest speakers, who are key players in these critical environmental issues, as well as site visits to leading environmental facilities and enterprises. Students will also have the opportunity to explore the ancient history and natural beauty of China.

ABOUT THIS SUMMER SCHOOL

This two-week summer school offers a unique opportunity to learn about environmental issues, develop innovative and creative thinking skills, and explore Chinese culture.



The summer school consists of three major components:

- 1.Environment: Lectures and discussions led by renowned faculty and environmental actors; site visits to leading environmental enterprises and municipal facilities to learn about the state-of-the-art practices currently employed in environmental engineering.
- 2.Innovation Challenge: Creative environmental group projects proposed and led by student participants.
- 3.Culture: Visits to cultural and environmentally significant landmarks.

Themes of the 2017 summer school:

Clean Energy, Air Pollution, Waste Water Management,
Urban Sustainability, and Climate Change

Role of Technological Innovation, Big Data, and Behavioral
Change in Environmental Solutions





SCHEDULE CURRICULUM SETTING

2017 International Summer School Schedule School of Environment, Tsinghua University

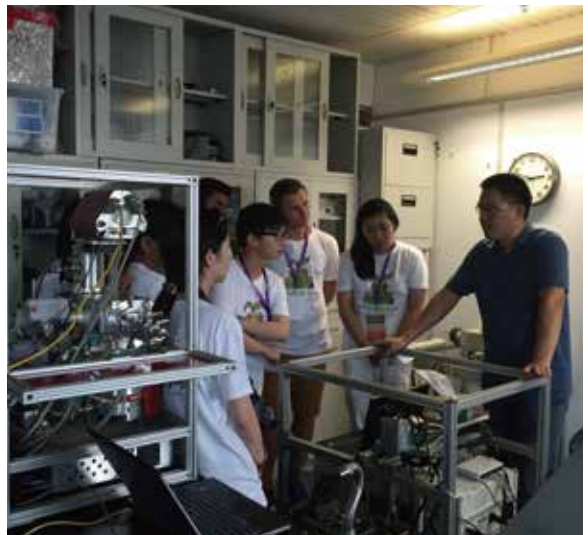
LEGEND	Environment	Innovation	Culture	Wednesday	Thursday	Friday	Saturday
Date	Sunday 6-Aug	Monday 7-Aug	Tuesday 8-Aug	9-Aug	10-Aug	11-Aug	12-Aug
Time							
9:00-11:30		Opening Ceremony	Academic Lecture 1 Prof. Wu Ye Academic Lecture 2* Harvard Prof. Michael B. McElroy	Field Trip Renewable energy company	Innovation lecture 1 Prof. Gu Xueyong Innovation lecture 2 * Prof. Yu Jiang	Field Trip Jining Shandong	Cultural Trip Qufu Shandong
	Registration	Lab Visit	Academic Lecture 3 Expert Panel Prof. Dale Jorgenson	China Meteorological Administration	Project Hours with group members	Big-Data Industrial Park	Hometown of Confucius
14:00-16:30		Campus Orientation Welcome Party & Dinner	Guest Lecture 4 * Corrado Clini State Grid				
19:00-21:00	Course introduction	Welcome Party & Dinner		Salon			

* Following this lecture there would be a panel discussion

2017 International Summer School Schedule School of Environment, Tsinghua University

LEGEND	Environment	Innovation	Culture			
Date	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Time	13--Aug	14--Aug	15--Aug	16--Aug	17--Aug	18--Aug
	Cultural Trip Beijing	Academic Lecture 5 University of Michigan, Prof. Ming Xu Academic Lecture 6 * "Peter Kitanidis, Stanford University "	Field Trip Beijing Gaobeidian Sewage Plant	Innovation Camp (training) Tsinghua, the Academy of Arts & Design, X-lab	Cultural Lecture 1 Tsinghua,Song Lili Cultural Lecture 2 * Tsinghua, the Academy of Arts & Design	Final Project Presentation
9:00--11:30				Project Hours with group members	Cultural experience Tsinghua University Art Museum	Closing Ceremony
14:00--16:30	The Great Wall at Badaling	Academic Lecture 7 Prof. Huang Xia Academic Lecture 8 * Prof. Liu Yi Prof. Yang Zhang		Project Hours with group members		
19:00--21:00	Course introduction	Welcome Party & Dinner		Salon	Project Hours with group members	Departure

* Following this lecture there would be a panel discussion



2017 TSINGHUA
INTERNATIONAL SUMMER SCHOOL

NOTABLE SPEAKERS:



Michael B. McElroy, Ph.D, Prof.

Gilbert Butler Professor of Environmental Studies,
Harvard University

Topic: Energy and Climate: Vision for The Future

Dale Jorgenson, Ph.D, Prof.

The Samuel W. Morris University Professor,
Harvard University

Topic: Energy and Climate: Vision for The Future

Peter K. Kitanidis, Ph.D, Prof.

Civil and Environmental Engineering, Stanford University

Topic: Methods for Hydrologic Forecasting and The Optimization of Sampling and Control Strategies

Xu Ming, Ph.D, Assoc. Prof.

School of Natural Resources and Environment Department,
University of Michigan

Topic: Water Footprint

Xia Huang, Ph.D, Prof.

School of Environment, Tsinghua University

Topic: Application of Membrane Technology in Wastewater Reclamation and Energy Recovery

Wu Ye, Ph.D, Prof.

School of Environment, Tsinghua University

Topic: Emission, Transport and Distribution Characteristics of Gaseous Pollutants and Particulate Matter in Urban Scale and Traffic Microenvironment

Yang Zhang, Ph.D, Prof

Department of Marine, Earth, and Atmospheric Sciences,
North Carolina State University

Topic: Air Pollution Modeling and Assessment, Atmospheric Chemistry and Transport

Corrado Clini, Ph.D.

Italian Ministry of Environment and Territory

Topic: Global Electricity Network and Sustainability

Liu Yi, Ph.D, Prof.

School of Environment, Tsinghua University

Topic: Strategic Choice of Urbanization Development in China

Gu Xueyong, Ph.D, Assoc. Prof.

Department of Industrial Engineering, Tsinghua University

Topic: Educational Innovation Based on Computational Thinking

Song Lili, Ph.D, Assoc. Prof.

School of Humanity and Art, Tsinghua University

Topic: What Makes China China

Yu Jiang, Ph.D, Prof.

Institutes of Science and Development, Chinese Academy of Science

Topic: China's Highway of Information and Communication Technology



HIGHLIGHTS

Environment: Lectures and discussions led by faculty from Tsinghua University, Harvard University, Stanford University, and University of Michigan. Site visits to Gaobeidian Wastewater Treatment Plant, China Meteorological Administration, and other leading environmental facilities and enterprises.

Innovation Challenge: Training in creative and innovation thinking. Group projects proposed and led by student teams that utilize innovation training to find solutions to environmental development issues in China.

Culture: Field trips to the Great Wall of China and the Forbidden City in Beijing, and the hometown of Confucius in Shandong province.



IMPORTANT DATES

Application /CV submission deadline: April 15, 2017 or until all spots are filled.



APPLICATION

Please apply via the following weblink

<http://goglobal.tsinghua.edu.cn/program/envsummer2017>

EXPENSES AND FEES

- Tuition fees would normally be CNY 18,000. Qualified applicants will be offered a scholarship which covers the full tuition and accommodation. Other related learning costs will also be covered by Tsinghua University.
- Round-trip international airfares, travel insurance and other personal expenses, including transportation and meals, are to be born by the participants.

CONTACTS

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