

# Summer School 2019

24 Aug - 31 Aug 2019

Xi'an, China

## Sustainable Housing and Environment from an International Perspective

Faculty of Architecture and the Built Environment // Delft University of Technology // Delft, the Netherlands

Cooperator: Xi'an University of Architecture and Technology // Xi'an, China

Co-organizer: Netherlands International Education Communication Centre // Delft, the Netherlands





As a very special experience, the summer school of “Sustainable Housing in an International Perspective” by the Faculty of Architecture and Built Environment, Delft University of Technology (TU Delft), is going to be held this summer 2019, in the ancient city Xi’an, China. It will take eight days with a variety of programs, such as Tender game, lectures, debates, small conference, excursion, field trip, etc. The topic of this summer school is “Sustainable Housing in an International Perspective,” which has the comparable content as the summer school in TU Delft in the Netherland but with an addition of the Chinese perspective.

Since 2016, it is already the fourth year for TU Delft to hold this summer school, but this year the summer schools will locate in both the Netherlands and China. As one of the most rapidly developing country in the world, China gains enormous attention to “sustainable building and living environment.” It is valuable to learn from the experiences in Europe and China and comprehensively understand the global context on sustainability.

Housing is of crucial importance for societies. It drives the economy and is a vital issue for sustainable urban and regional development in growing as well as declining areas. This course focuses on sustainable housing development and deals with environmental as well as economic and social sustainability. How do housing markets work, and how do governments intervene? How can the affordability, quality, and energy efficiency of the housing stock be improved? The course will give insight into the European and Chinese perspective on the development of sustainable housing stock by presenting national goals, policies, regulations, assessment tools, process innovations, and management approaches.

The summer school is organized and given by the Faculty of Architecture and Built Environment, TU Delft in the Netherlands. Meanwhile, the professors and experts from the Hong Kong Polytechnic University, Xi’an University of Architecture and Technology, as well as the State Key Laboratory of Green Building are invited to contribute to the summer school program. Through multi-faceted learning opportunities, participants will learn a holistic view on sustainable housing knowledge from different perspectives through an interactive approach.



# General Introduction

## World Top Class Education in Architecture

The Delft University of Technology in the Netherlands is well-known as “the MIT in Europe”, it is the oldest, largest and most extensive Polytechnic University in the Netherlands. Founded in 1904, the Faculty of Architecture and Built Environment of TU Delft is one of the largest faculties of “Architecture and Built Environment” in Europe. Being ranked as top 3 among the QS World University Ranking by subjects in Architecture for many years, it is also the foundation of the reputation of modern Dutch architecture in the world. Many world-famous architects and academic professors have been graduated from TU Delft. Innovation and diversity are important features of the education system in the Faculty of Architecture and Built Environment, TU Delft.

Professor Henk Visscher, a senior expert in the green housing research field, has participated in many international research projects related to sustainable housing and the environment. He will lead his team of the outstanding researchers to host the program of this summer school.

The School of Architecture of Xi'an University of Architecture and Technology (Xi'an, China), which has a long and profound history, is one of the eight most famous schools in the education of Architecture in China. The School of Architecture adheres to the excellent tradition of disciplines and has established a national research laboratory for green buildings. The University has Excellent achievements in research on green building and sustainable development of the environment. In the summer school, the professors from Xi'an University of Architecture and Technology will participate in part of the programs. Through the discussion and interaction with the Dutch professors, it will create an excellent platform for the participants to think about sustainable building and living environment in a global context, from perspectives of construction, economic, governance, market, technology, management, and evaluation, etc.

## In the Ancient City of Xi'an, Experiencing the Society and Culture Collision

In the summer school, participants not only will learn much professional knowledge, discuss and study with professors and experts from Europe and China, but also feel the discussion and collision on sustainable housing in different backgrounds. It will be a valuable learning opportunity for participants to understand the ideas and practices of both Europe and China in this field at the same time.

In the world-famous ancient city of Xi'an, an ancient Oriental city with a history of thousands of years, participants will gain a notably different experience. In the field-trips and workshops, participants will conduct case studies and have an overview of sustainable development in the local context, with the guidance of professors and local experts. You will also have an in-depth understanding and exploration of the history and forms of architecture with oriental characteristics under the different geographical, social, and urban developing background.





## Various Content and Format of Courses

The curriculum is developed and coordinated by Dr. Queena Qian from Delft University of technology. The eight-day program covers 80% of the best content of the previous two-week program (10-day) in the Netherlands. The program is designed in various forms: professional theme lectures, teamwork workshop -- sustainable development tender game, tit-for-tat debate salons, field trips, case studies, and student achievement reports, etc.

Since 2016, the summer program has been held every summer in the Faculty of Architecture and the Built Environment, TU Delft. Previous summer schools have successfully attracted worldwide participants. A quick geographical overview of participants' profile: Hong Kong, China, Taiwan, South Korea, Japan, India, Brazil, Mexico, Italy, UK, Germany, Spain, Sweden, Greece, Turkey, Estonia, Slovenia, South Africa, Nigeria, Russian Federation, Australia, United States of America. (more details: <https://www.tudelft.nl/bk/studeren/summerschools/summerschool-sustainable-housing-from-a-european-perspective/>).



## Participants with Diverse International Background

We invite Bachelor students, Master students, and Ph.D. students, and industry professionals with background knowledge and research interests on sustainable housing and the built environment. The program also welcomes international participants from all over the world. The language of the program is in English. The participants are expected to take the full participation to be qualified and awarded the certificate of completion of the summer course issued by the Faculty of Architecture and the Built Environment, TU Delft. This certificate is an official certificate from the Faculty of Architecture and the Built Environment, TU Delft.

In the summer of 2019, with the assistance of Xi 'An University of Architecture and Technology, Faculty of Architecture and the Built Environment of TU Delft will conduct the summer school in China for the first time. The core contents will keep pace and conduct more discussions based on the cutting-edge development in Europe and China. While ensuring the quality and effect, it also has reference significance and practical value in the international context. Participants will be able to establish international friendships through teamwork, tender group games, debate salons, etc. In the summer of 2019, you will gather in the ancient city of Xi'an with different cultural backgrounds and begin a unique experience here.

# Program

24 Aug - 31 Aug 2019  
Xi'An, China

	9:00~9:15	9:15~10:30		10:45~12:00		13:00~14:15		14:45~16:00
24 Aug Sat	<b>Registration</b> teaching materials , course schedules & introduction				<b>LUNCH BREAK</b>	Divided into groups		Icebreaking activities
25 Aug Sun	<b>Opening</b> Introduc- tion	<b>Policies and programmes for sustainable housing in NL and Europe.</b> Prof. Henk Visscher	<b>C O F F E  B R E A K</b>	<b>Introduction to nearly zero-energy buildings &amp; passive houses in Europe</b> Dr. Erwin Mlecnik		<b>Workshop</b> <b>Sustainable transformation Tender game I</b> Dr. Erwin Mlecnik Dr. Queena Qian		
26 Aug Mon	<b>Challenges in delivering green building projects: Unearthing the transaction costs (TCs)- Hong Kong experience</b> Dr. Queena Qian			<b>Business perspective for sustainable housing: Innovation and quality assurance</b> Dr. Erwin Mlecnik		<b>Workshop</b> <b>Sustainable transformation Tender game II</b> Dr. Erwin Mlecnik Dr. Queena Qian		
27 Aug Tue	<b>"Policy and end user perspective supporting the market development of sustainable housing"</b> Dr. Erwin Mlecnik			<b>Applying behavioural economics to residential energy efficiency policy</b> Dr. Queena Qian		<b>Workshop</b> <b>Sustainable transformation Tender game III</b> Dr. Erwin Mlecnik Dr. Queena Qian		
28 Aug Wed	<b>Field Trip in XI'AN- I Case Study</b> Dr. Queena Qian					<b>Field Trip in XI'AN- II Case Study</b> Dr. Queena Qian	<b>C O F F E  B R E A K</b>	<b>Conference Seminar Opening: An international perspective on green building and sustainability</b>
29 Aug Thur	<b>Quality assurance European Union countries: a comparison of tasks and responsibilities</b> Prof. Henk Visscher , Invited Guests		<b>Quality assurance European Union countries: a comparison of tasks and responsibilities</b> Prof. Henk Visscher , Invited Guests	<b>workshop preparing for the tender game final evaluation IV</b> Dr. Queena Qian Dr. Erwin Mlecnik		<b>International Background Young Architects: Practical Experience of Sustainable Architecture and Environment</b>		
30 Aug Fri	<b>Sustainability of Urban Land Use and Urban Renewal (Hong Kong)</b> Prof. Edwin Chan		<b>B R E A K</b>	<b>Green Building Design and Control for Sustainable Dense City – Hong Kong</b> Prof. Edwin Chan		<b>Debate Salon</b> <b>A comparison between Europe an China</b> Prof. Henk Visscher, Prof. Edwin Chan, Invited Guests		
31 Aug Sat	<b>Final evaluation: presentation by groups on the tender game</b>  Prof. Henk Visscher , Prof. Edwin Chan, Dr. Queena Qian, Dr. Erwin Mlecnik					<b>Closing remark By Prof. Henk Visscher</b> <b>Certification ceremony</b> Prof. Henk Visscher , Prof. Edwin Chan, Dr. Queena Qian, Dr. Erwin Mlecnik, Invited Guests		



**Henk Visscher**

Professor of Housing Quality & Process Innovation  
Director of the Graduate School of Architecture and  
the Built Environment, TU Delft, The Netherlands



**Edwin Hon-wan CHAN**

Professor  
Award Coordinator for MSc / PhD in CLDR  
Academic Discipline Leader of Urban Sustainability  
Policy, The Hong Kong PolyU, Hong Kong



**Dr. Queena Qian**

Assistant Professor (Tenure Tracked),  
OTB Research Institute for the Built Environment,  
TU Delft, The Netherlands.



**Dr. Erwin Mlecnik**

Assistant Professor  
Department of Architecture and the Built Environment,  
TU Delft, The Netherlands.



**Hu Rongrong**

Professor, Xi 'an university of architecture and  
technology,Xi'An  
Research direction: building technology, ecological  
building and engineering earthquake resistance



**Fan Zhengyu**

Associate professor,Ph.D. Supervisor,  
Xi 'an university of architecture and technology,Xi'An  
Research interests: building technology, green  
building and low-carbon city.



**Deng Wenhua**

Founder of Tumushi Architects  
Registered architect in the Netherlands  
Master of architecture, TU Delft, The Netherlands.  
NEXTS Architects, MVRDV Architects.



**Wang Kai**

Founder JOA, Registered architect in the Netherlands  
TU Delft honorary graduation design award,  
guest lecturer of xi 'an jiaotong-liverpool university.  
Master of architecture, TU Delft, The Netherlands.  
KCAP Architects&Planners, MVRDV Architects,  
OMA-office for Metropolitan architect-rotterdam.

## PARTICIPATION

Final year of bachelor students, Master Students and PhD Students with background knowledge and research interests on sustainable housing and the built environment are invited to join. There are limited places available. Participants who join the whole course, will receive a certificate of participation.

## FEE SUMMERSCHOOL

The registration fee includes the lectures, workshops, field-trips, and 8-night accommodation (the International Student Dormitory of Xi 'an university of architecture and technology). International traffic and local traffic, Lunch, dinner and other costs are not included in the fee. Students attending the Summer School are responsible for arranging their own trip to Xi'an.

For details on registration fees, please send an email to [2019ssreg@niecc.org](mailto:2019ssreg@niecc.org)

## VENUE

Main location:  
Xi'an University of Architecture and Technology, Xi'an, China

## Application (Deadline extended!)

Your application should include:  
a convincing motivation letter and research interests (1-page maximum),  
a short CV (1-page maximum) .

Please submit your application by 30 June 2019 online:  
[Online Application Form \(http://tudssreg.mikecrm.com/ZJyhnDq\)](http://tudssreg.mikecrm.com/ZJyhnDq)

After approval of your application please register within 10 working days to guarantee your place at the Summer School (you will receive info where to register).

There are limited places available. An early application is highly recommended. Considering the high demand and potential oversubscription, the evaluation will be based on the quality of the application considering first come first served, meaning the programme will close once it becomes full.

For content related information, please contact the summerschool coordinator [Dr. Queena Qian: K.Qian@tudelft.nl](mailto:K.Qian@tudelft.nl).

For practical information, please contact the summerschool co-organizer [Netherlands International Education Communication Centre, Delft, The Netherlands: 2019ssreg@niecc.org](mailto:2019ssreg@niecc.org)



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