University of Oxford Programme for the Future of Cities

Global Leadership for the Future Cities Summer Course

18-31 August 2019

Christ Church, University of Oxford St Aldate's, Oxford OX1 1DP





http://www.futureofcities.ox.ac.uk/

Welcome to the 2019 Global Leadership for the Future of Cities Summer Course!

Cities all over the world face complex and rapidly evolving challenges, such as climate change, global migration flows, transnational governance demands, financial volatility, and expanding social inequalities. The Oxford Programme for the Future of Cities at the University of Oxford aims towards rethinking the city as a flexible and dynamic space that better responds to evolving circumstances.

The Future of Cities Summer Course is designed to provide talented and advanced university students and young professionals from a variety of disciplines and fields aspiring to pursue high-level research or management careers with the exposure to the key areas involved in making urban development sustainable, flexible, dynamic, resilient and vibrant in response to evolving challenges and circumstances. These areas include governance and policy; design and planning; technology and innovation; economics, business and finance; and social and cultural development.

Each year's summer course focuses on important areas and trends of sustainable and smart urban development, such as low or zero carbon emission, Internet of Things, and Connected and Autonomous Vehicles (CAV). CAV for example, are bringing technological, management and business innovations that will transform the movement of people, goods and services with more intelligent, efficient and cleaner transport, increased safety and accessibility, and economic benefits, while posing challenges and risks. The course is designed for attendees to approach the development and implementation of these sustainable and smart urban developments from an integrated understanding which encompasses technology, policy, planning, risks and safety, ethical and sociolegal issues, business and economic matters.

Aiming to connect top research and best practice, the course engages attendees in interactive and participatory lectures, seminars and workshops regularly taught by leading experts at the University of Oxford, Oxford Brookes University, Imperial College London, Warwick University, and management personnel and practitioners from the UK government, and business and industrial sectors. It provides a global and comparative perspective on major aspects of contemporary and near future urban development with case studies on global cities, in order to explore innovative and sustainable practices that balance economic, environmental and social aspects of urban development.

The course also organises visits to London as a mega city through which participants will gain firsthand experience of London's architectural design, planning, infrastructure and transport; tour the world's largest exhibition of low carbon design of our urban future; interact with experts from a world-class urban design and planning firm; and visit London's financial district.

While providing a global perspective on the chosen theme each year, the Summer Course also presents local urban development challenges faced by Oxford City and Oxfordshire County for the attendees to work on. In 2018, our summer course attendees successfully completed policy recommendation projects related to the implementation of the Zero Emission Zone policy in Oxford, arguably the world's first Zero Emission Zone in urban areas, for the Local Councils. This year's challenges are related to the development of CAV in Oxfordshire which has been on the forefront of innovation in designing and testing Autonomous Vehicles. The attendees will have the privilege of working under the guidance of experienced researchers and professionals from Oxford and London to analyse and work out integrated assessments of these challenges, aiming to provide meaningful recommendations for local policymakers and contribute to sustainable and smart urban development in Oxford or Oxfordshire. It is expected that attendees will be organised in groups to tackle different aspects of the challenges before putting together integrated assessments. To complete this project, attendees need to do pre-course reading assignments, and apply and integrate what they have learned each day from lectures, seminars, project workshops, and site visits. At the end of the course, each project group will develop and deliver a power-point presentation and a written report, which will be evaluated by project supervisors and experts from the University of Oxford and the Local Councils.

On the final day, all the attendees who successfully complete the course will receive a Certificate of Completion from the University of Oxford Programme for the Future of Cities. As a follow-up step, attendees who successfully complete the summer course may apply for the MSc or DPhil in Sustainable Urban Development or other relevant degree programmes in public administration and policy; business, economics and finance; law; science and technology; social sciences; environmental studies, and humanities subjects at the University of Oxford, Oxford Brookes University, Imperial College London, Warwick University, and other universities, as well as apply for internship opportunities at relevant government institutions, NGOs, and business and industrial organisations.

			Week One: 18	–24 August 201	8		
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	18 August	19 August	20 August	21 August	22 August	23 August	24 August
07.00.00.15	Arrival	Oxford	Oxford	Oxford	Oxford	London	Oxford
07:30-08:15		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
09:00-09:50		Drogramma	'Overview of the	'Connected Autonomous	'Autonomous Vehicles and	Coach Trip to London	Economic and Business Case of
		Programme Orientation	Development of	Vehicles in	Drones in	to London	Connected and
		09:00-10:30	Autonomous	Relation to	relations to		Autonomous
		09.00 10.50	Vehicle and	Policy and	Smart Cities		Vehicles'
			Drone	Planning in	and Internet of	Visit the	Implementation
			Technology and	London'	Things	Crystal	in Cities'
			their Policy		(I)		
			Implementation'				
09:50-10:10		Tour of	Tea Break	Tea Break	Tea Break		Tea Break
10:10-11:00		Oxford	'Impact of the	'Connected	'Risks &		'Innovative
			Development of	Autonomous	Safety for		Financial
			Autonomous	Vehicles &	Autonomous		Practices and
			Vehicles and Drones on	Drones	Vehicles and & Drones'		Public-Private Partnership in
			Cities'	Implementation in Urban	(II)		Connected and
			Cities	Development	(11)		Autonomous
				and			Vehicles'
				Infrastructure in			Development'
				London'			
11:00-11:30			Q & A	Q & A	Q & A		Q & A
			Exercise	Exercise	Exercise		Exercise
11:30-12:00			Break	Break	Break		Break
12:00-13:30		Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13:30-14:20			'Introduction to	Project	Project	Visit of a	Mid-term
	Airport	T	CAV in Oxford'	Workshop:	Workshop:	World-	Reports and
	Pick-up	Tour of Oxford	Q & A	Research Planning	Tutorials	Leading Urban	Presentations & Feedback
	-	Oxford	Qar	Taining		Design and	a Feeuback
14:20-14:40			Tea Break	Tea Break	Tea Break	Planning	Tea Break
14:40-15:30			Project	Project	Project	Firm in	Mid-term
			Workshop:	Workshop:	workshop:	London &	Reports and
			A Demo	Literature	Presentation	Case	Presentations
	Arrival and			Review	& Writing	Studies	& Feedback
	registration			Data Collection		from industry	
15.20 16.20	at Christ		Project	and Analysis Site Visit:	Free time	industry	Free Time
15:30-16:20	Church		Workshop:	AV Design	riee unie	London	riee Time
			Project	Firm in Oxford		Financial	
			Introduction &	T IIII III Oxioid		District	
			Formation of				
	Welcome		Project Groups				
16:20-18:00	Dinner		Cultural Event:				
			Scottish				
10.00.10.20		D:	Dancing	D'	D.	Coach back	
18:00–19:30		Dinner	BBQ Dinner	Dinner	Dinner	to Oxford	Dinner
				0.10.0.1	0.10.0	D.:	0.10.00.1
10.00.01.00		Rest	Self-Study Time	Self-Study Time	Self-Study Time	Dinner	Self-Study Time
19:30-21:00	Rest						
19:30-21:00	Rest				Time		
19:30-21:00	Rest		Rest	Rest	Rest	Rest	Rest

Week One: 18–24 August 2018

	~ -		k Two: 25–31				
	Sunday 25 August Oxford	Monday 26 August Oxford	Tuesday 27 August London	Wednesday 28 August Oxford	Thursday 29 August Oxford	Friday 30 August Oxford	Saturday 31 August Oxford /
07:30-08:15	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Departure Breakfast
09:00-09:50	'Governance and Socio-legal and Ethical Issues of AV and Drones' (I)	'Integrated Approach to Urban Mobility' (I)	Coach Trip to London London City Tour	'Global Perspective: Looking forward on Future Urban Mobility' (I)	Final Project Report Preparation Time	Final Project Reports & Presentations and Assessment	Check-out
09:50-10:10	Tea Break	Tea Break		Tea Break	-		
10:10–11:00	'Governance and Socio-Legal and Ethical Issues of AV and Drones' (II)	'Behaviour and Social Change in relation to Mobility' (II)		'Global Perspective: Looking forward on Future Urban Mobility' (II)			Airport
11:00-11:30	Q & A Exercise	Q & A Exercise		Q & A Exercise	-		Drop-off
11:30-12:00	Break	Break		Break	-		
12:00-13:30	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	
13:30–14:20	Project Workshop Revision of Mid-term Presentations	Presentations and Reports & Assessment by the Local Councils	London City Tour	Project Workshop	Final Project Report Preparation Time	Concluding Remarks Professor Certificate	
14:20-14:40	and Reports Tea Break	Tea Break		Q & A	-	Of	
14:40–15:30	Project Workshop	Consultation Session with the Local Councils		Tea Break		Completion Ceremony Group Photos	
15:30–16:20	Free Time	Free Time		Project Workshop		Feedback Form Submission	
16:20–18:00			Coach Trip back to Oxford	Free Time		500111551011	
18:00–19:30	Medieval Oxford College Service	Dinner			Dinner	Farewell Dinner	-
19:30-21:00	Dinner	Submission of a Draft Final	Dinner	Dinner	Self-Study Time		
21:00	Rest	Reports & PPTs Rest	Rest	Rest	Rest	Rest	-

	Speakers for Lectures	r
Speaker Frofessor Tim Schwanen	Profile Professor Schwanen is Director of the Transport Studies Unit (TSU) in the School of Geography and Environment. He is also a Co-Director of the Research Council UK funded Centre on Innovation and Energy Demand (2013–18) in which the TSU collaborates with research groups in the University of Sussex and Manchester and a Co-Director of the Oxford Programme for the Future of Cities. His research focuses on the geographies of the everyday mobilities of people, goods and information. It is international in outlook, interdisciplinary in scope, informed by the thinking in various sub- disciplines with Geography, and organised around five more general concerns: low-carbon mobilities and cities, futures and temporality, social and spatial inequality, well-being, philosophy of transport and mobility.	Lecture 'Global Perspective: Looking Forward on Future Urban Mobility'
Toby Blunt	Toby Blunt joined Foster + Partners in 1995, became an associate partner in 2004 and was promoted to partner in 2006. For five years he was based in Berlin, Singapore and Malaysia, working closely with teams on site for a wide range of projects including the redevelopment of the Reichstag, New German Parliament, in Berlin. More recently he has led teams for a number of large projects in the Middle East including The Index, Dubai; Al Raha Beach Development and the New Zayed National Museum in Abu Dhabi.	'Case Studies on Connected Autonomous Vehicles'
Dr Debbie Hopkins	Dr Hopkins is currently Department Research Lecturer in Transport Studies at the Transport Studies Unit and the School of Geography and the Environment, University of Oxford. Her research is broadly concerned with the social dimensions of climate change, socio-technical transitions, and the mobility of people and goods. She is now also a project researcher with the UK Centre for Research into Energy Demand Solutions working on the Digital Society Theme to investigate the energy implications of automated technologies.	'Governance and Socio-legal and Ethical Issues of AV and Drones'
Dr James Ingram	Dr Ingram joined Transport for London in 2007 and has held a number of roles in the organisation's strategic and environmental departments. In his current role as Principal City Planner James is responsible for developing long term emissions reduction and energy policies for London's transport system.	 (1) 'CAV in Relation to Policy and Planning in London'; (2) 'CAV & Implementation in Urban Development and Infrastructure in London'
Professor Michael Keith	Professor Keith is Director of the Centre on Migration, Policy, and Society and Co-Director of the Future of Cities Programme at the University of Oxford. He has also been Co-ordinator (2015-2018) of all ESRC investments in urban studies, responsible for the ESRC Urban Transformations programme, Newton programmes on cities in Brazil, India, China and South Africa; a portfolio of forthcoming grants valued at over £30 million. He leads the largest international urban studies project called PEAK Urban at Oxford, a project funded by the Research Council UK. He has wide experience in public life and successful strategic management of large revenue and capital budgets. He has been directly responsible for change management and strategic direction for several large-scale organisations. He was until 2006 the Leader of the Council in the London Borough of Tower Hamlets in the east end of London after spending twenty years in east London public life (including five years as leader of the council and eight years as lead on urban regeneration). The local authority has a budget of almost £1 billion per annum. He led the authority for five years at three different times between 1994 and 2006 to a place at the time formally recognized as the top social services provider, top performing local education authority and local strategic partnership in the country. Between 2006 and 2008 he served as a commissioner in the national Commission on Integration and Cohesion, established by Tony Blair in the wake of the 2005 London bombings and reporting to the Secretary of State at the former Department for Communities and Local Government).	Final Assessment & Concluding Remark

[
	Graham Smith joined HSBC in 1996 and has more than 20 years of investment banking experience. In 2004 he set up the team responsible for HSBC's	(1) 'Economic and Business Case of
100 M	financing of Bus Rapid Transit (BRT) systems globally and has acted as	CAV's
	financial adviser and arranger on the largest projects in the sector in recent	Implementation in
Graham Smith	years. He is currently the Director and co-leader of HSBC's Sustainable	Cities' and (2)
	Finance Unit responsible for driving the growth in sustainable financing within	'Innovative
	the Bank. A key goal of this Unit is to develop HSBC's financing of Smart	Financial Practices
	Cities and he is part of the HSBC and Arup team that represents the UK's	and Public and
	interest in the UK-China Smart Cities Hub that was agreed at the last UK-China	Private Partnership
	Government talks in London in October 2016. He is responsible for the	in CAV's
	development and Global rollout of training within HSBC to increase awareness	Development'
	of the opportunities that a focus on Sustainable Business can bring to HSBC.	-
	He is also one of HSBC's Green Financing specialists, leading the teams	
	working with the Green Climate Fund and the Catalytic Finance initiative.	
	Graham is a graduate of Southampton University, and has been a trustee and	
	member of the Executive Committee of Canning House the Latin American	
	think-tank and a member of the Banking Committee of the British Exporters	
	Association and the Export Finance Committee of the Confederation of British	
	Industry, he is a technical advisor to the UN Secretary General High-Level	
	Group on Sustainable Transport. Other notable transactions that Graham has	
	led include finance for the Brazilian Sovereign and Public Sectors with over	
	USD 2bn of finance raised for the Brazilian Government. Graham has worked	
	with/provided advice to Ministries of Transport/Finance in South Africa, Chile,	
	Panama, Colombia, Malaysia, the Philippines and Indonesia and worked with	
	and provided advice to the Cities of Santiago, Mexico City, Johannesburg,	
	Panama City, Bogota and Pretoria.Professor McCulloch teaches and conducts research at the Department of	'Integrated
-	Engineering Science and is Group Leader of the Energy and Power Group at	Approach to Urban
(==	the University of Oxford. His interests are in the areas related to the domestic	Mobility'
X	energy sector, development of user centric demand side management	
Professor	technologies, useful information to enable behaviour change. His previous	
Malcolm	work led to the spin-out called 'Intelligent Sustainable Energy', of which he is	
McCulloch	both a founder and non-executive director. This spin-out has merged to form	
Meeunoen	Navetas. His work also interacts with the following three major areas: In the	
	transport sector, his research is ongoing in the developing electric and	
	Hydrogen vehicles. A successful project was that of the Morgan LifeCar-the	
	first ever Hydrogen sports car. This project leads to the development of high-	
	efficient lower-weight motors using new materials, which has resulted in the	
	Oxford spin-out company Oxford Yasa Motors, of which he is a founder. He is	
	responsible for creating an integrated Transport Network for Oxford. He is also involved in renewable power generation, which has resulted in the spinout of	
	Kepler Energy, of which he is also a founder and an non-executive director. He	
	has also been involved in developing technologies that leverage advanced	
	intelligence to provide cost effective and nano and micro solutions that	
	facilitate a scalable pathway to distributed electrification. He was also Co-	
	Director of the Institute for Carbon and Energy Reduction in Transport as part	
	of the 21 st Century James Martin School at the University of Oxford.	
	Dr Wulfneier is Machine Learning and Robotic Research Scientist with	'AV & Drones in
	DeepMindAI. He received his DPhil/PhD at the Oxford Robotic Institute where	relation to Smart
2	has worked as a postdoctoral research. He was a visiting scholar at the UC	City and Internet
	Berkeley AI Research Lab. The principal focus of his work is the development	of Things'
Dr Markus	of approaches for increasing the efficiency of process for providing supervision	
Wulfmeier	to guide autonomous systems with a particular emphasis on transfer learning	
	and learning from demonstration.	

Speakers for Seminars and Workshops

Speakers for Seminars and Workshops					
Speaker	Profile	Seminar			
Dr George Economides	Team Leader at Oxfordshire County Council for Connected and Autonomous Vehicles, he is also Managing Director of Maestria Brands and Mastiha World Ltd. He received his Masters and DPhil in Chemistry from the University of Oxford.	'Introduction to CAV in Oxford'; Final Assessments			
Christine Moore	Christine received her BSc in Ecology and Evolution from Western University, Canada; and MSc in Conservation Biology from University of Cape Town, South Africa. She is a doctoral candidate in the School of Geography and the Environment; University of Oxford. She had the opportunity to supervise many diverse projects in the past, such as student conservation and ecology projects in Kruger National Park, South Africa, and airport networks in the UK to transformation of resources in Oxford. She has also assisted with spatial analysis and landscape ecology projects at the University of Cape Town. Her primary interests include quantitative projects which seek to incorporate aspects of geographical space with environmental factors and human experiences. Her strengths as a supervisor are her enthusiasm and ability to work with spatial and quantitative data.	Project Workshops			
Matt Peachey	Matthew is Economic Development Manager at Oxford City Council. As an Economic Development and Regeneration Professional with 16 years-experience developed across a range of locations in the UK and Ireland, he leads the Oxford City Council Economic Development Team, focussing on shaping the city's economic strategy and associated policies, enabling a range of key development projects, attraction of infrastructure investment and funds, and working closely with local employers to meet their needs. He is a member of the Oxford Economic Growth Board and Smart Oxford Board. He holds an MSc in Economic Development and is working towards membership of the Royal Institute of Chartered Surveyors.	Consultation Session & Assessments			
Laura Peacock	Laura is Innovation and Research Team and Oxford Locality Manager responsible for Infrastructure, Innovation and Development at Oxfordshire County Council. Coming from a background in Communications, Strategic Planning, Policy development, and leading major Transport Innovation Projects and Bids, Laura has a depth of experience which has enabled her to implement Smart City principles in Oxfordshire. Allowing Oxfordshire to lead the worldwide disruption of how cities live and breathe. She heads up the Innovation and Research team at Oxfordshire County Council who are committed to developing and deploying innovative R&D and projects to address the challenges that cities face. She plays an important role in intelligent infrastructure and mobility systems and has been at the centre of Smart City activity for the past 5 years, being instrumental in developing links to business and academia.	Consultation Session & Assessments			
Dr Paola Sassi	Dr Paola Sassi is a Senior Lecturer and Researcher in the School of Architecture and the Oxford Institute of Sustainable Development at Oxford Brookes University where she has supervised students in tackling and devising solutions for local urban development challenges in Oxford. Previously she taught at the University of Nottingham, Cardiff University and the Centre for Alternative Technology in Machynlleth, Wales. She has more than 30 years of architectural practice experience and as partner of Sassi Chamberlain Architects was responsible for a number of shortlisted and winning designs competitions and experimental developments including two ultra-low energy closed loop material cycle flats in Cardiff and a Victorian terrace refurbishment achieving 80% reduction in heating requirements. Paola researches, publishes and has been invited internationally to speak about her work in the field of design for deconstruction and closed loop material cycles, ventilation in ultra-low energy homes and motivations for adopting sustainable lifestyles. She is the author of 'Strategies for Sustainable Architecture', runner up in the RIBA International Book Award 2007.	Project Workshops			

Programme Management Team

Staff	Profile
Dr Samuel Chen	Dr Chen is currently Research Fellow and China Liaison at the Centre on Migration, Policy and Society, University of Oxford, and Research Associate and Training Courses Director at the Oxford Programme for the Future of Cities, University of Oxford. Previously he was Research Fellow in History of Civilisation at Wolfson College (2010–2017), researching and teaching four major Near and Far Eastern languages and civilisations. He has more than 22 years of international project management experience in China, the UK and US and has managed multiple training programmes, conferences and projects on a wide spectrum of topics ranging from arts, humanities, technology, policy and business in different cities, such as Beijing, Shanghai, and Changsha in China; and Oxford, London, Edinburgh, and Lancaster in the UK; and Los Angeles, San Diego, Washington, D.C., and Boston in the US. He has also worked as a consultant to education institutions, businesses, industrial sectors and government organizations since 2009, particularly on a number of collaborative sustainability projects between the UK and China. He is also the Founding Director of SEE and Oxford Sustainable Enterprise Ltd in Oxford. He graduated from Harvard University and the University of Oxford.
Lucy Han	Lucy is Operations Manager of the Summer Course. She received her MA from the University of St Andrews and MSt from the University of Oxford. She likes to describe herself as an integrative thinker with an Eastern soul and a Western mind, which naturally leads her to develop a passion for dialogues between different ideologies and cultures. Driven by a quest for the true nature of human beings, she embarks on an academic journey consulting the great minds of the history - all the way from contemporary existential writers to ancient Greek thinkers - and still finds human nature beyond comprehension; Outside of her intellectual bubble, she drinks tea for the day and wine for the evening. She loves reading, running and wearing colourful socks.
Dr Ruta Buivydaite	Dr Ruta Buivydaite is Operations Coordinator of the Summer Programme. She graduated from the Department of Psychiatry, University of Oxford. During free time she likes flying, currently training to be a pilot. Also, she like traveling and meeting people from different cultures & countries. She also loves reading mystery and detectives stories like Sherlock Holmes.

Experiencing the Traditional College Life at Christ Church



In order for attendees to gain in-depth experience of the traditional and unique learning environment at the University of Oxford, the Future of Cities Summer Course will take place at Christ Church (founded in 1546), which is arguably the most aristocratic college at the University of Oxford and is located at the centre of the city of Oxford and the University. The College has produced thirteen British prime ministers, more than any other Oxbridge college. Albert Einstein was studying here in the early 1930s. The College has been used in filming of a number of popular movies, including J K Rowling's *Harry Potter* Series.



All the teaching will be held at Christ Church. Participants will take the College's student accommodation, and have most of their breakfast and lunch in the College's magnificent Dining Hall. In addition, the Course will also organise a visit to the Evensong Service, a medieval tradition that has been kept alive, at Christ Church, so as to expose the attendees to the cultural heritage handed down from the Middle Ages.

Tour of the University of Oxford

In order to give the attendees a multi-faceted experience of the University of Oxford, we will arrange for tours of some of the landmark buildings of the University.



<u>Bodelian Library</u>, built in 1602, is one of the oldest libraries in Europe. It has 11 million books, only after the British Library in terms of the amount of collections.

<u>History of Science Museum</u>, established in 1683, is the world's oldest surviving purpose-built museum. It holds high-profile scientific instruments from the Middle Ages to the 19th century and is one of the world's most important museums for the study of the history of science and the development of western culture and collecting. One of the most iconic objects in the collection is Einstein's Blackboard that Albert Einstein used on 16 May 1931 when he lectured at the University of Oxford.

<u>Ashmolean Museum</u>, built in 1683, is the oldest university museum in the world. It has collected valuable artefacts and paintings from all over the world.

Oxford University Natural History Museum, built in 1850, is the venue of the famous debate on evolution vs creation in 1860, also the exhibition site of the first telegraph. The specimen collection of the extinct Dodo at this museum is the world's most complete specimen of a single Dodo, which also inspired Lewis Carroll, the author of Alice's Adventures in Wonderland (he used to visit the Museum regularly for the depiction of the Dodo in his book).

Pitt Rivers Museum, built in 1884, has 50,000 archaeological and anthropological items.

<u>Oxford University Botanic Garden</u>, founded in 1621, is the United Kingdom's oldest botanical garden. It covers an area of 1.8 hectares with more than 8,000 different plant species. It is one of the botanical gardens in the world that have most diverse yet compact collections of plants.

<u>Other well-known colleges</u>, including St John's College which was founded in 1555 and it is the richest College in the University of Oxford. Its famous graduates include Tony Blair.

Site Visits Oxford

Autonomous Vehicle Design and Testing in Oxford



Oxford is home to some of the leading AV design companies. It is also a place where AVs were first tested in the UK. The summer course will arrange a visit to one of the leading AV design companies in Oxford.

London The Crystal: 'Experience Tomorrow's Cities Today'



The Crystal was opened by Siemens in 2012 as an exhibition centre, and a global hub for debate, on sustainable urban living and development. It sets the benchmark for sustainable building design. It boasts being the world's only building to obtain the highest certification in both the BREEAM and LEED schemes, as well as many other accreditations. As an exhibition centre, it uses different educational and interactive tools to demonstrate how future sustainable and smart cities are designed, major challenges that face cities today: demographic change, urbanisation, climate change, energy and transport and how to balance three pillars of sustainability: environment, economy and quality of life.

A World-leading Architectural and Masterplanning Firm in London



The visit will allow attendees to learn how some of the iconic building and urban development projects in the UK and different parts of the world were designed and built with innovative and sustainable concepts and practice.

London Financial District



According to the ranking based on detailed analyses of 86 major cities in the world by the Z/Yen Group in September 2015, London has already surpassed New York as the most competitive financial centre in the world. Many of the world's largest banks, insurance companies, and investment groups all place their headquarters in the financial districts of London. More than 500 banks have their offices here. London also boasts of the world's largest stock exchange market, occupying 1.85 trillion USD (46.7%) out of the total global trading of 3.98 trillion USD each day.

Cultural Visits in London



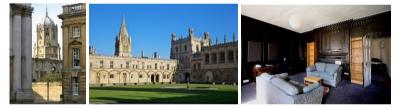
The visits include the famous Hyde Park, Buckingham Palace (exterior) and the changing of the guard ceremony, the Big Ben (exterior), Parliament (exterior), and the British Museum. The visit also includes taking a river cruise on River Thames which provides an excellent view of urban development and iconic buildings in London.

Colourful Evening Activities



Evening activities are designed to facilitate the interaction between attendees and the University of Oxford students. Activities include learning Scottish dancing, attending a medieval music service at Christ Church, and socialising in a local pub.

College Accommodation at Christ Church, University of Oxford



All attendees will be staying at Christ Church's student accommodation during the programme, which will allow the attendees to experience student life at the most aristocratic college within the University of Oxford.

Meal Arrangements



Breakfast is served every morning during the Summer Course at Christ Church. A western-style lunch is served at Christ Church, when teaching takes place except on the days of outing. One of the dinners will be served at the College as well. Other nights the attendees will have dinner at another college or local restaurants.

Certificates



A certificate of completion will be issued by the University of Oxford Programme for the Future of Cities to each student who successfully completes the Summer Course. The certificate ceremony will be conducted in the morning of the last day of the course. The groups whose project presentations are selected as best presentations will also receive award certificates.

Follow-up



For those attendees who actively participate in discussions and interact with the University of Oxford teaching staff and students, and successfully complete the group project during the course, a designated teaching staff from the course could provide recommendation letters and advice for their postgraduate applications, especially for the MSc or DPhil in Sustainable Urban Development or other relevant degree programmes in public administration and policy; business, economics and finance; law; science and technology; social sciences; and humanities subjects at the University of Oxford; Imperial College London; Warwick University; Oxford Brooks University and other universities in the UK or other parts of the world. The Summer Course has also been instrumental in its alumni successfully getting in some of the leading postgraduate programmes, such as the Masters of Public Policy (MPP) programme at the Blavatnik School of Government, University of Oxford, and the Masters of Public Administration (MPA) programme at the Fels Institute of Government, University of Pennsylvania; as well as gain internship opportunities at leading UK organisations in urban planning and architecture, such as Atkins and Foster + Partners. Please contact Dr Samuel Chen, Manager of the University of Oxford Programme for the Future of Cities Summer Course, for further information.

Application Information

Intended Participants:

Talented and highly motivated university students (normally third-year undergraduate and up, including postgraduate students, but outstanding first or second-year undergraduate students may be considered) from all relevant fields of science and technology, humanities and social sciences, e.g., Business & Economics, AI, Computer and Data Science, (Geo- or Environmental) Engineering, Geography and the Environment, Ethics and Law, Philosophy, Public Policy and Administration, Urban Design and Planning.

Total Number of Places Available: 45

Requirements

- 1. Strong interest in global leadership, business and management, policy and sustainable (urban) development, urban transport and mobility, the environment, innovation and entrepreneurship
- 2. preferably intending to pursue postgraduate study in the UK, and having previous or existing work, internship or volunteer experience in areas related to sustainable (urban) development and management
- 3. Sound academic standing: normally GPA 3.2 (on a 4.0 scale) or 80 (on a 100 scale) at the minimum. Please submit your academic records and transcripts for assessment by the selection

panel of the Oxford Programme for the Future of Cities Summer Course.

4. English proficiency

Please submit any of the following evidence for assessment by the selection panel of the Summer Course:

- (1) IELTS: minimum 6.0 for overall average and each area
- (2) TOEFL: minimum 85 for the overall score (listening section: minimum 20)
- (3) College English Test (CET)-4: minimum 530 (applicable to Chinse university applicants only)
- (4) College English Test (CET)-6: minimum 510 (applicable to Chinese university applicants only)
- * For those applicants who have not taken the above tests by the time of application, their English proficiency needs to be assessed by their home institutions and the designated personnel of the Summer Course.
- * This requirement for proof of English proficiency through the above English test scores is not required for applicants whose first language is English, those whose first language is not English but have successfully completed a full-time degree-level academic programme at a university where English is the language of instruction, or those who have extensive experience working in a professional English-speaking environment.
- 5. Initiative to interact with teachers and students from the University of Oxford and other UK universities and professionals coming to teaching during the Summer Course
- 6. Having teamwork experience and the ability to work on a group project
- * The selection panel of the Summer Course will consider the overall qualifications of each applicant.

Scholarships

A limited level of scholarships (normally for university students only) is available on a first-come-first serve basis for those applicants who have highly competitive application packages and interview performance. Scholarships are normally granted by deducting an equal amount from the course fee.

How to Apply

Please submit the following by <u>31 May 2019</u>:

1. Applicant Form

Please fill out the Application Form (see attachment), then email it in Word format to the Programme Director of the Summer Course Dr Samuel Chen or the designated branch of your university or institution.

- 2. CV and a digital passport-size photo of the applicant
- Copies of academic records and IELTS, TOEFL, CET-4 or CET-6 scores (CET-4 or CET-6 scores are only applicable to Chinese university applicants)
 * For those applicants who have not taken the above tests by the time of application, their English proficiency needs to be assessed by the designated personnel of the Summer Course at Oxford. Please view the above relevant notes for those who may be exempt from the requirement of proof of English proficiency.

Rest of the Application Procedures:

- 1. The Organisers will normally notify the applicant of the result of his or her application within five working days upon receipt of his or her application package. The applicant will also be notified if oral interview is necessary before the Selection Panel makes the final decision.
- 2. Those who have been accepted will need to do the following within three working days after having been admitted into the Summer Course:
 - (1) Sign the Course Agreement form sent by the Organisers and email the scanned agreement to the Organisers.
 - (2) Pay the entire course fee (please view the next page) through international bank transfer. This includes the non-refundable application fee £680 and the rest of the course fee £2900 for a student and £3300 for a professional. Information about payment methods will be provided with the Official Letter of Acceptance.

Cancellation policy: Participants may cancel their enrolment by giving notice in writing by **18 June 2019**. Any fees paid, with the exception of the non-refundable application fee **£680**, will be returned to the participant. Participants who cancel their participation of the course after **19 June 2019** are liable for the following fees:

- Between **19 June 2019** and **1 July 2019**: 50% of the course fee
- After 2 July 2019: 100% of the course fee

Note: The above dates are all inclusive.

- Attendees who need visas to enter the UK are responsible for obtaining their UK visas in time for their participation of the course. Normally they need to complete the visa application procedure by 10 June 2019. For those who apply for their visas after 10 July 2019, the Organiser of the Course strongly recommend them to use the express visa application service.
- 4. Attendees coming from overseas should have completed the following by 1 July 2019:
 (1) Obtain UK visas (for those who need visas to enter the UK);
 - (2) Purchase international airplane tickets;
 - (3) Purchase international travel insurance; and
 - (4) Email a scanned copy of your passport and visa, as well as your flight information and insurance policy to Dr Samuel Chen, Course Director.
- 8. The organising personnel of the Summer Course, upon receiving the payment of all costs and related information via email, will issue a confirmation email together with instructions on how to prepare for the trip and the Summer Course prior to attendees' arrival.

Application Closing Date: 31 May 2019

Course Cost

Each Student: £3,580

The above fee includes:

- 1. Airport transfer fees in the UK (Airport transfer services are available only at London's Heathrow International Airport and at specific times)
- 2. Meals, accommodations, transportation, and expenses involved in the arranged visits during the Summer Course (from the afternoon of Monday **18 August 2019** to the afternoon of Sunday **31 August 2019**)
- 3. Tuition and course materials
- 4. Expenses for all the activities specified in the Summer Course
- 5. Admission fees for all the site visits as specified in the Summer Course
- 6. A selection of digital photos taken by the organising personnel during the Summer Course

Above fee does not include:

- 1. Round-trip airplane ticket from the attendee's home country to the UK
- 2. Application fee for the attendee's passport
- 3. Application fee for visa
- 4. Comprehensive international travel insurance (including accident and medical coverage)
- 5. Luggage fee (if overweight), communication cost (e.g., phone or calling cards), and personal spending (including drinks at pubs)

Contact Information

Dr Samuel Chen, Course Director Global Leadership for the Future of Cities Summer Course Oxford Programme for the Future of Cities Institute for Science, Innovation and Society, University of Oxford 64 Banbury Road, Oxford OX2 6PN, United Kingdom UK Mobile: 00 44 7956 694 962; WeChat: oxfordsustain Email: <u>samuel.chen@compas.ox.ac.uk</u> Website: <u>www.futureofcities.ox.ac.uk</u>



