

University of Oxford

**Future of Cities: Innovation and Sustainability
Summer Course**

14–27 August 2017

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



FLEXIBLE CITY
OXFORD FUTURE OF CITIES

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

Welcome to the Future of Cities: Innovation and Sustainability 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: Innovation and Sustainability Summer Course is designed to provide talented and advanced university students and professionals 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, finance and commerce; and socio and cultural development.

Aiming to connect top research and best practice, the course engages participants in interactive and participatory lectures and seminars taught by leading experts at the University of Oxford, Imperial College London, Warwick University Business School, and management personal and practitioners in the UK government, 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 mega cities around the world, 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 first-hand experience of London's political, financial, business, and cultural districts, tour the world's largest exhibition of low carbon design of our urban future, and interact with experts at a world renowned architectural design and urban planning firm. Participants will also visit state-of-the-art waste water treatment and energy recovery facilities and the Mini Cooper Plant nearby the City of Oxford.

As an integral part of the course, attendees are required to complete a relevant group research project under the guidance of outstanding postgraduate students and experienced researchers at Oxford and leading professionals in sustainable industries. 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 research project group will develop and deliver a power-point presentation, which will be evaluated by supervisors and mentors in comparison with presentations given by other groups. Top-ranking presentations will be granted award certificates by the Oxford Programme for the Future of Cities.

On the final day, all the participants who successfully complete the course will receive a Certificate of Attendance from the Oxford Programme for the Future of Cities, University of Oxford. As a follow-up step, participants 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; Imperial College, London; Warwick University and other UK leading universities.

Week One:14–20August 2017

	Monday 14 August Arrival	Tuesday 15 August Oxford Tour	Wednesday 16 August Oxford	Thursday 17 August Oxford	Friday 18 August London	Saturday 19 August Oxford	Sunday 20 August Oxford
7:30–8:15		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
9:00–09:50		Programme Orientation	Lecture: ‘Future of Cities: Innovation & Sustainability’	Lecture: ‘Building a Sustainable Energy System– Options and Challenges’	Trip to London	Lecture: ‘Global Challenges for Transport to 2050’	Lecture: ‘Food Safety & Security’
09:50–10:10		Tour of Oxford	Tea & Coffee Break	Tea & Coffee Break	Visit the Trafalgar Square	Tea & Coffee Break	Tea & Coffee Break
10:10–11:00			Lecture: ‘Urban Transformation’	Lecture: ‘Innovative Energy Storage and Demand Response’		Lecture: ‘Cities and Transport: Sustainable Urban Development’	Lecture: ‘Global Supply Chain’
11:00–11:30			Q&A Discussion	Q&A Discussion	Visit Parliament and the Big Ben (exterior)	Q&A Discussion	Q&A Discussion
11:30–12:00			Break	Break	Break	Break	Break
12:00–13:30		Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13:30–14:20		Tour of Oxford	Seminar: ‘Transforming Cities Toward Sustainability: the Case of Sharing Economy’	Seminar: ‘Innovation: Sustainable Urban Planning and Architectural Design’	River Cruise London Eye	Seminar: ‘Transport in London’	Seminar: ‘Water Management: European Commission Urban Water Project’
14:20–14:50		Arrival and registration at Christ Church College	Q&A Discussion	Q&A Discussion	Visit the British Museum	Q & A Discussion	Q & A Discussion
14:50–15:10			Tea & Coffee Break	Tea & Coffee Break		Tea & Coffee Break	Tea & Coffee Break
15:10–16:00			Project Workshop: An Introduction	Project Workshop: Governance & Policy		Project Workshop: Infrastructure and Emission	Project Workshop: Big Data & Information Management
16:00–18:00			Free Time	Free Time	Trip back to Oxford	Free Time	College Evensong Service
18:00–19:30		Dinner	Dinner	Dinner		Dinner	Dinner
19:30–21:00	Welcome Dinner	Rest	Study Time	Cultural Night	Dinner	Study Time	Rest
21:00	Rest		Rest	Rest	Rest	Rest	

Week Two: 21–27 August 2017






	Monday 21 August Oxford	Tuesday 22 August Oxford	Wednesday 23 August London	Thursday 24 August Oxford	Friday 25 August Oxford	Saturday 26 August Oxford	Sunday 27 August Oxford / Departure
7:30–8:15	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
9:00–9:50	Lecture: ‘Economic Assessment of Sustainable Development’ (I)	Lecture: ‘Technology Acceleration and Innovation Clusters’	Trip to London	Lecture: ‘Applying Behavioural Economics to Sustainability’ (I)	Visit a Waste Treatment and Energy Recovery Facilities	Project Report Session	Programme Slide Show
09:50–10:10	Tea & Coffee Break	Tea & Coffee Break	Visit the Crystal	Tea & Coffee Break			Concluding Remarks’
10:10–11:00	Lecture: ‘Economic Assessment of Sustainable Development’ (II)	Lecture: ‘Smart City Challenges’		Lecture: ‘Applying Behavioural Economics to Sustainability’ (II)			Certificate & Project Competition Award Ceremony
11:00–11:30	Q&A Discussion	Q&A Discussion		Q&A Discussion			Group Photos
11:30–12:00	Break	Break		Break	Feedback Form Submission		
12:00–13:30	Lunch	Lunch	12:45 Lunch	Lunch	Lunch	Lunch	Lunch
13:30–14:20	Seminar: ‘Public-Private Partnership in Sustainable Urban Development/ Green Finance’	Seminar: ‘Scenario Planning for Sustainable Future’	Visit a World- Leading Urban Planning Firm in London	Seminar: ‘Future Proofing Cities’	Mini Cooper Factory	Project Report Session	Airport Drop-off
14:20–14:50	Q&A Discussion	Q&A Discussion		Q&A Discussion			
14:50–15:10	Tea & Coffee Break	Tea & Coffee Break		Tea & Coffee Break			
15:10–16:00	Project Workshop: Urban Finance	Project Workshop: Smart City		London Financial District	Seminar: Rethinking Urban Heritage’		
16:00–18:00	Free Time	Free Time	Free Time				
18:00–19:30	Dinner	Dinner	Trip back to Oxford	Dinner	Dinner	Farewell Dinner	
19:30–21:00	Study Time	Scottish Dancing SCFC	Dinner	Study Time	Study Time		
21:00	Rest	Rest	Rest	Rest	Rest		



Main Speakers for Lectures

Speaker	Profile	Lecture
 <p>Professor David Banister</p>	<p>Professor Banister was Professor Emeritus of Transport at the University of Oxford. He was the Director of the Transport Studies Unit, University of Oxford (2006–2015). He was also Director of the Environmental Change Institute in the School of Geography and the Environment, University of Oxford (2009–2010). Prior to 2006, he was Professor of Transport Planning at UCL. He has spent time as a Research Fellow at the Warren Centre in the University of Sydney (2001–2002), a Visiting VSB Professor at the Tinbergen Institute in Amsterdam (1994–1997), and Visiting Professor at the University of Bodenkultur in Vienna (2007). He was the first Benelux BIVIC-GIBET Transport Chair (2012–2013) and was recently the Chair of the ERC Advanced Research Grant SH3 Panel (2015–2016). His research expertise is in transport scenario building, sustainable cities, energy and environmental modelling. He has published 23 books and over 250 papers in referred journals.</p>	<p>(1) Global Challenges for Transport to 2050; (2) Cities and Transport: Sustainable Urban Development</p>
 <p>Dr Phillip Grunewald</p>	<p>Dr Grunewald is an Engineering and Physical Sciences Research Council Fellow at the University of Oxford. He leads the Meter project on the understanding of household electricity use dynamics and the Flexibility Theme in the Lower Carbon Futures Group at the Environmental Change Institute. His PhD at Imperial College London explored the future role of electricity storage in low carbon energy systems. Since 2013 he has worked at Oxford on the integration of renewables through storage and demand response. He supported the creation of the Oxford Energy Network, comprising 200 senior energy researchers. He obtained his first degree in Business Engineering from Wedel, Germany. For 10 years he worked on advanced laser processes for the semiconductor and photovoltaic industry.</p>	<p>(1) Building a Sustainable Energy System—Options and Challenges; (2) Innovative Storage and Demand Response</p>
 <p>Mr Andrew Mitchell (TBC)</p>	<p>Mr Mitchell is a renowned environmentalist with extensive field experience in Asia, Africa and Latin America, combined with a 30 year career spanning research, journalism, broadcasting, policy and environmental project management. He pioneered scientific exploration of forest canopies and is Founding Director of Global Canopy Programme. He also co-founded NGOs such as Earthwatch Europe. He acts as an adviser to governments and international institutions, and is special advisor to the Prince of Wales' Rainforest Project.</p>	<p>(1) Food Safety & Security; (2) Global Supply Chain</p>
 <p>Professor Steve Rayner</p>	<p>Professor Rayner is James Martin Professor of Science and Civilization; Co-Director of Oxford Programme for the Future of Cities; Co-Director of the Oxford Martin Programme on Resource Stewardship and the Oxford Geo-engineering Programme; Director of the Institute for Science, Innovation and Society. In 2008, he was listed by <i>Wired</i> Magazine as one of the 15 people the next President should listen to and was recognized for his contribution to the joint award of the 2007 Nobel Peace Prize to the Inter-governmental Panel to Climate Change.</p>	<p>(1) Future of Cities: Innovation and Sustainability; (2) Urban Transformation</p>
 <p>Professor Richard Templer, FRSC</p>	<p>Professor Templer is Director of Innovation at the Grantham Institute for Climate Change and the Hofmann Chair in Chemistry at Imperial College London. Since 2007, he has been active in the creation of initiatives to drive innovation that combats the causes and effects of climate change. In 2009 he was part of the successful bid to the European Institute for Innovation and Technology to create a Climate Knowledge Innovation Community (Climate-KIC). In 2010 he became the Director of the UK arm of Climate-KIC and Director of Education for the whole KIC.</p>	<p>(1) Technology Acceleration and Innovation Cluster: developing a low carbon economy in and for cities; (2) Smart City Challenges</p>
 <p>Professor Ivo Vlaev</p>	<p>Professor Vlaev joined Warwick University's Business School as a Professor of Cognitive Science and Behavioural Economics. Previously he was a Senior Lecturer in Behavioural Sciences at the Faculty of Medicine, Imperial College London and a Researcher at University College London. His research focuses on human decision making in various important domains, e.g., social, financial, and medical. Specific research topics are decision-making, risks attitudes, behaviour change, consumer psychology, behavioural economics and finance, cooperation, and well-being. He approaches these from the convergence of psychology, neuroscience and economics, which achieves results that none of the disciplines can achieve alone. His recent work</p>	<p>Applying Behavioural Economics to Sustainability</p>


	with various public organisations is on applying behaviour change principles to changing people's decisions about their health, finances and the environment. He is a co-author of the UK Cabinet Office MINDSPACE report in 2010, which provides a framework for designing effective policies and is used widely across both local and central government and in the commercial sector. He advises local and national policymakers on how to effectively use behavioural insights in their policy setting. He has also acted as a reviewer for a wide range of journals and research funding organisations. He received his DPhil in Experimental Psychology from the University of Oxford (St John's College)	
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Speakers for Seminars

Speaker	Profile	Seminar
 <p>Mr Toby Blunt</p>	Mr 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.	Innovative and Sustainable Urban Planning and Architectural Design
 <p>Dr Yuge Ma</p>	Dr Ma is a postdoctoral researcher in the Environmental Change Institute, University of Oxford. She focuses on global low-carbon development, energy efficiency, energy and climate policy, as well as sustainable urbanisation in China, India and beyond. Her current research is funded by the prestigious EU Horizon 2020 GREEN-WIN Project, which focuses on win-win strategies and sustainable business models of climate action and urban transformation in Shanghai, Istanbul, Barcelona and Venice. She received her BEng and BA from Tsinghua; MSc and DPhil from Oxford. Her PhD thesis investigated China and India's low-carbon technologies and policies via the lens of the energy efficiency industry.	Governance & Policy
 <p>Ms Janet Miller</p>	Ms Miller is a Sector Director for Cities and Development, part of the Senior Leadership Team for Atkins' UK division of Water, Ground and Environment. She leads on setting the strategy, business development, providing multi-disciplinary projects involving masterplanning, landscape and urban design, and cities related environment and infrastructure for developer and public sector clients in the UK and overseas. She also leads on key initiatives such as Future Proofing Cities, liaising closely with other parts of the Atkins business as well as the Director for Innovation and Futures. She is also the Director for Heritage, being an archaeologist by profession, and enjoys leading or getting involved in projects related to conservation, world heritage, heritage-led regeneration, visitor interpretation, tourism and heritage research commissions. She is also the lead director for technical excellence in Atkins' Environmental Planning market.	(1) Future Proofing Cities; (2) Rethinking Urban Heritage
 <p>Mr Darren Oliveiro-Priestnall</p>	Mr Oliveiro-Priestnall is CEO of Red Skies Ltd., a leading big data and software company in the UK/Europe, which has served in a wide range of companies from banking, stock market trading platforms, healthcare, energy and water utilities, schools, aerospace, and entertainment industry. He has nearly 20 years of industry experience in the design and development of complex software systems for use by companies such as Microsoft, Disney, Deutsche Boerse as well as government agencies and utilities. In recent years he and his team have focused on tackling the security and scalability issues to support modern smart cities, working in partnership with the European Commission and many other stakeholders. They have been responsible for developing a European Commission-funded smart urban water management system called 'Urban Water' which is now running pilot projects in European countries (e.g., Spain, Portugal and Czech Republic).	Water Manage: European Commission Urban Water Project
 <p>Mr Matthew Richardson</p>	Mr Richardson is Director of Research on European Real Estate at Fidelity International, a multinational financial services corporation which manages over 3 trillion US dollars of assets globally. He has more than 28 years of experience of working in the European, US and Asian property markets. Prior to joining Fidelity, among his high-profile positions, he held a variety of roles, including Head of Property Finance at Experian Business Strategies in the UK; Director of Asia Operations at Dow Jones Teleres; Regional Research Director-Asia Pacific at Brooke Hillier Parker (now CBRE); and Senior Analyst at IPD in the UK. He has lectured at the London School of Business, LSE, UCL, Cambridge and Oxford, and is a regular speaker and panellist at industrial events.	Public-Private Partnership in Sustainable Urban Development/ Green Finance






 Ms Lucinda Turner	<p>Ms Turner is Head of Policy and Strategy, Transport for London (TfL). She leads TfL's work on strategic spatial planning including input to the London Plan. More recently she was Secretariat to the Mayor's Road Task Force. She has Master's degrees in Spatial Planning from UCL and Public Policy from LSE and a BA (Hons) from Cambridge.</p>	Transport in London
 Dr Monika Zurek	<p>Dr Zurek is a senior researcher at the Environmental Change Institute (ECI) at the University of Oxford and a member of the ECI Food Systems Group. For more than 15 years she has worked on food systems, environment and development interactions in research and international organizations as well as in the consulting and the philanthropic sector. Prior to joining ECI, Monika worked with Climate Focus, a consulting firm focusing on climate change mitigation and land use issues. Before that, she was part of the Agricultural Development Team of the Bill & Melinda Gates Foundation managing grants to improve the environmental sustainability of agricultural systems and risk management in agriculture. She also served as an economist at the Food and Agriculture Organization (FAO) and supported the Scenarios Working Group of the Millennium Ecosystem Assessment. She started her career as a researcher at the International Maize and Wheat Improvement Center (CIMMYT), working on agricultural sustainability projects in Costa Rica and Mexico. She was also a lead author for various environmental assessments such as the Intergovernmental Panel on Climate Change (IPCC, AR4), the Millennium Ecosystem Assessment and the International Assessment of Agricultural Knowledge, Science and Technology for Development (IAASTD). She holds degrees from the University of Hohenheim (MSc equivalent/Diploma in agricultural biology) and Justus-Liebig-University Giessen, Germany (PhD in agricultural economics).</p>	Scenario Planning for Sustainable Future'

Tutors for Project Workshops

Tutor	Profile	Workshop
 Dr Igor Calzada	<p>Dr Calzada, MBA is an interdisciplinary academic entrepreneur in social sciences working as Lecturer, Senior Research Fellow and Policy Adviser at Urban Transformations ESRC and the Oxford Programme for the Future of Cities at the University of Oxford. He is also Lecturer in the MSc in Global Sustainable Cities at the Institute for Future Cities at the University of Strathclyde in Glasgow as well as Visiting Research Fellow (2016) at the Vrije Universiteit Brussel, BCUS Brussels Centre for Urban Studies. Since 2002, he has been Lecturer and Research Fellow at Aston University in Birmingham (UK), Nevada (USA), Helsinki (Finland) and Mondragon (Spain). His research interest concerns comparing social, economic, technologic, democratic and politically innovative processes in cities and regions, paying special attention to cases and issues of regional and metropolitan devolution. He focuses on City-Region and Smart City benchmarking case studies internationally through applying qualitative and action research methods.</p>	Smart City
 Dr Shahana Chattaraj	<p>Dr Chattaraj is Research Associate at the Department of Urban Studies and Planning. She was a Research Fellow at Blavatnik School of Government, University of Oxford. Her research focuses on urban political economy, governance, and policy in Asian megacities, the informal economy and emerging patterns of socio-spatial inequality within cities. She is currently working on a research project related to urban restructuring in Mumbai and Shanghai. She holds a PhD in public affairs from Princeton University, a master's degree in city planning from MIT and bachelor's degree in architecture from the School of Planning and Architecture in New Delhi. Prior to coming to Oxford, she taught at the University of Pennsylvania and conducted research at the U Penn's Lauder Institute. She has also worked for several years with the United Nations Population Fund, consulted with the World Bank and worked in a community development organisation in Delhi.</p>	Governance & Policy
		Big Data and

 Dr Benjamin Hennig	<p>Dr Hennig specialises in spatial data analysis and geovisualisation. His research interests also include social and spatial inequalities, humanity's impact on Earth, global sustainability and new concepts for the visualisation of these issues. He was educated at the Universities of Cologne and Bonn and the Alfred Wegener Institute for Polar and Marine Research (Bremerhaven/Germany) where he conducted research on hyperspectral remote sensing applications in coastal ecosystems. After working as a research associate and departmental lecturer in human and urban geography at the Department of Geography, University of Cologne (Germany) he joined the Social and Spatial Inequalities Research Group at the University of Sheffield (UK) in 2008 where he completed his PhD in 2011 as part of the Worldmapper project with research on visualising the social dimensions of our planet. He continued working at the Department of Geography in Sheffield before joining the University of Oxford as a Senior Research Fellow in 2013. He is currently a Research Associate in the University of Oxford's School of Geography and the Environment.</p>	Information Management
 Miss XiHu	<p>Miss Hu is a doctoral candidate at the Environmental Change Institute and a Senior Wai Seng Scholar at the Asian Studies Centre, University of Oxford. She focuses on the infrastructure development process in China, how the Chinese infrastructure system is vulnerable to climate change impacts, e.g., flooding and droughts and what the adaptation implications are for policy makers. She has worked as an energy modeller for the UK Infrastructure Transitions Research Consortium, interned as a climate adaptation researcher with the Chinese National Development and Reform Commission, and facilitated dialogues between Oxford and government agencies such as the Chinese Ministry of Water Resources. Her research has been presented at numerous international conferences, e.g., the International Symposium for Next Generation Infrastructure (2014) and the Second International Conference on Vulnerability and Risk Analysis and Management (2014). In 2015, she co-founded an international conference on infrastructure investment in emerging markets that gathered more than 17 world's leading infrastructure experts with 160 attendees. Representatives included the newly established Asian Infrastructure Investment Bank, the World Bank, OECD, the G20 Investment and Infrastructure Working Group, the Turkish Treasury, the Inter-American Development Bank and the Asian Development Bank. Before coming to Oxford, she conducted policy research at the Chinese Ministry of the Environment and Ministry of Land and Resources on both domestic and global levels. She also worked at the International Finance Corporation in Beijing on Sino-African relations, the UK-India Business Council in New Delhi on corporate social responsibility, and as an analyst at Legal & General in London on investing in China. She holds a BSc in Environmental Policy with Economics and an MSc in Environmental Economics and Climate Change from LSE.</p>	Infrastructure & Emission
 Dr Yuge Ma	<p>Dr Ma is a postdoctoral researcher in the Environmental Change Institute, University of Oxford. Her expertise focuses on global low-carbon development, energy efficiency, energy and climate policy, as well as sustainable urbanisation in China, India and beyond. Her current research is funded by the prestigious EU Horizon 2020 GREEN-WIN Project, which focuses on win-win strategies and sustainable business models of climate action and urban transformation in Shanghai, Istanbul, Barcelona and Venice. She received her BEng and BA from Tsinghua; MSc and DPhil from Oxford. Her PhD dissertation investigated China and India's low-carbon technologies and policies through the lens of the energy efficiency industry.</p>	(1) Research Project Workshop: An Introduction; (2) Governance & Policy; (3) Infrastructure & Emission
 Dr Yin Yang	<p>Dr Yang is a postdoctoral researcher at the Smith School of Enterprise and the Environment, University of Oxford. He focuses on infrastructure investment, public-private partnerships, governance, urban development, institutional investors, climate change and sustainable development. He is a member of the Association of American Geographers (AAG) and the Royal Geographical Society (with the Institute of British Geographers). He co-organised the special session on 'Geographies of Urban Infrastructure' at the AAG 2016 Annual Meeting in San Francisco, and gave a presentation at International Symposium for Next Generation Infrastructure in Vienna in 2014. He founded the Oxford International Infrastructure Consortium and co-organised the Oxford Global Infrastructure Conference in 2015 & 2016, attracting thought leaders from academia, governments and industry worldwide including World Bank, World Economic Forum, IFC, OECD, Asian Development Bank and Asian Infrastructure Investment Bank.</p>	Urban Finance

Course Management Team

Staff	Profile
 Dr Samuel Chen	<p>Dr Chen is Research Fellow in History of Civilisation at Wolfson College, and Research Associate at the Oxford Programme for the Future of Cities, University of Oxford. He is also Manager of the Future of Cities: Innovation and Sustainability Summer Course at the Oxford Programme for the Future of Cities. He has more than 20 years of international project management experience in China, the UK and US; and has worked as a consultant to education institutions, businesses, industrial sectors and government organizations since 2009, particularly on a series of collaborative projects between the UK and China that are related to sustainability. He is also the Founding Director of Oxford Sustainable Enterprise Ltd and Summit Education Enterprise Ltd in the UK. He graduated from Harvard University and the University of Oxford.</p>
 Dr Yuge Ma	<p>Dr Ma is Academic Officer of the Future of Cities: Innovation and Sustainability Summer Course.</p>
 Miss Irma Vastakaite	<p>Miss Vastakaite is Coordinator of the Summer Course. She has worked in marketing, management, administration and other client facing roles. Her experience led her to work in the Oxford May Music Festival, a renowned classical music and science festival. She also worked as a corporate manager at Oxford International Holdings where she was primarily involved in client consultations and assisted with international liquidity and banking solutions. She graduated with a Bachelor's degree in Music and a Masters degree in Arts with distinction from the Royal Academy of Music in London. While achieving scholarships from Stephen Bell Charitable Trust, Fisher Foundation and the Royal Academy of Music throughout her studies, she has participated in many management projects including corporate, art, dance and music festivals.</p>
 Miss Denecia Frater	<p>Miss Frater is Students Welfare Officer of the Summer Course. She has worked in numerous fields and has an extensive amount of experience in many different sectors, such as education, retail, HR recruitment, commercial and legal. She has a diverse and dynamic skill-set with strong experience and key responsibilities in various roles, such as sales and marketing, research and administration.</p>
 Miss Sarah Bruhn	<p>Miss Bruhn is Programme Operations Officer of the Summer Course. She received her Bachelor's degree in Education and English from Germany and her Masters in Education from the University of Oxford.</p>

Experiencing Oxford University's Traditional College Life at Christ Church College



In order for attendees to gain in-depth experience of the traditional and unique learning environment at Oxford University, 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 Summer Course attendees to the cultural heritage handed down from the Middle Ages.

Tours of Oxford University

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



[Bodleian Library](#), 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.

[Ashmolean Museum](#), 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.

[Oxford University Botanic Garden](#), 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.

Other well-known colleges, 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

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



Attendees will 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 change of the guard ceremony, the Big Ben (exterior), Parliament (exterior), and the British Museum. The visits also include taking the London Eye and a river cruise on River Thames.

Mini Coopers' Manufactory Plant in Oxford



The automobile plant based in Oxford is Mini Coopers' original design and manufacturing place. Within about 100 years after its first establishment, the plant has produced more than 25 million cars. Each day there are several hundred cars being assembled in the plant, according to the specific requirements of customers, and shipped to more than 110 countries around the world. The plant produces two signature models: the new Mini Hatchback issued globally on 18 November 2013 and the 5-door Mini Hatchback whose manufacturing started on 1 July 2014.

State-of-the-art Waste Treatment and Energy Recovery Facilities in Oxfordshire



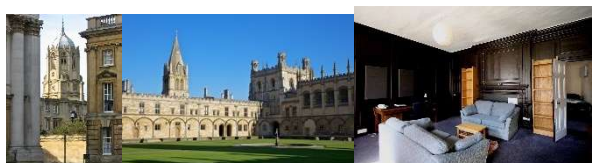
Attendees will learn how waste in the UK is treated with state-of-the-art technology and in an environmentally friendly and economically profitable way.

Colourful Evening Activities



Evening activities are designed to facilitate the interaction between attendees and students at the University of Oxford. Activities include learning Scottish dancing and socialising in a local pub.

College Accommodation at Oxford University



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.

Issuing Certificates



A certificate of completion will be issued by the Oxford Programme for the Future of Cities, University of Oxford 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 Services



For those attendees who actively participate in discussions and interact with Oxford University teaching staff and students, and successfully complete a group research project during the course, a designated teaching staff from the course will 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; and other leading UK universities. Please contact Dr Samuel Chen, Manager of the Future of Cities: Innovation and Sustainability Summer Course, for your specific needs.

Application Information

Target Participants

1. University students (normally 3rd year undergraduate students and above, including postgraduate students; exceptionally talented 2nd year undergraduate students may be considered)
2. Professionals from related fields

Total Number of Places Available: 45 (world-wide)

Requirements

1. Strong interest in sustainable urban development,
2. preferably intending to pursue postgraduate study in the UK, and having previous work, internship or volunteer experience in areas related to sustainable (urban) development
3. Sound academic standing: normally GPA 3.2 (on a 4.0 scale) or 80 (on a 100 scale) at the minimum
(Those with a GPA slightly below the above standard may be considered if they have strong experience and qualifications relevant to the theme of the Summer Course.)

4. English proficiency

Applicants need to meet one of the following standards:

- (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 525
- (4) CET-6: minimum 480

* 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 Organising Personnel of the Summer Course at the University of Oxford.

* This section 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 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 at the University of Oxford

6. Having teamwork experience and the ability to work on a group project

* During the admission process, the Organisers will consider the overall qualifications of each applicant.

Scholarship (normally for undergraduate and postgraduate students only)

A limited level of scholarship (between £100 and £200) may be available for those students who have highly competitive application packages and interview performance. Scholarship will be granted to each recipient upon his or her successful completion of the Summer Course. Scholarship applicants who submit their applications by 25 April 2017 will have priority.

How to Apply

Please submit the following by **25 May 2017**

1. Applicant Form

Please fill out the Application Form (see attachment), then email it in Word format to the Manager 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
3. Statement of Purpose (please fill out the relevant part of the application form)
4. Two recommendation letters (these can be waived for experienced professionals who demonstrate their qualifications and work experience through their CVs)
 - (1) One letter covering your academic work
 - (2) One letter covering your work/internship/volunteer experience, preferably related to sustainable urban development
5. Copies of academic records and IELTS, TOEFL, CET-4 or CET-6 scores
 - * 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 Organising Personnel of the Summer Course at Oxford.
 - * This section 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 programme at a university where English is the language of instruction, or those who have extensive experience working in a professional English-speaking environment.

Rest of the Application Procedures:

1. The Organisers will notify the applicant of the result of his or her application within three days after receipt of his or her application package.
2. Those who have been accepted will need to do the following within three days after having been admitted to the programme:
 - (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 **£660** 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 **1 July 2017**. Any fees paid, with exception of the non-refundable application fee **£660**, will be returned to the participant. Participants who cancel their participation of the Summer Course after **1 July 2017** are liable for the following fees:

- Between **2 July 2017** and **14 July 2017**: 50% of the course fee
- After **15 July 2017**: 100% of the course fee

Note: The above dates are all inclusive.

3. 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 **1 June 2017**.
4. Participants coming from overseas should have completed the following by **1 July 2017**:
 - (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, Manager of the Summer Course.
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 participants' arrival.

Course Cost

Student Rate: £3,560 (approximately equivalent to 30,000 RMB)

Professional Rate: £3,960 (approximately equivalent to 33,400 RMB)

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 **14 August 2017** to the afternoon of Sunday **27 August 2017**)
3. Tuition and course materials
4. Expenses for all the activities specified in the Summer Course
5. Entrance 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. Air travel from each applicant's home country to the UK (approximately 8,000 RMB)
2. Application fee for your passport (approximately 200 RMB)
3. Visa application service fee (approximately 1,200 RMB, including the visa application fee)
4. Comprehensive international travel insurance, including accident and medical coverage (approximately 400 RMB)
5. Luggage fee (if overweight), communication cost, and personal spending (including drinks at pub)

Application Deadline: 25 May 2017

Contact Information

Dr Samuel Chen, Manager
Future of Cities: Innovation and Sustainability
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