

# AUM 2015 – Programme (Draft v2)

Venue: Little Hall, Sidgwick Site, Cambridge University, CB3 9DA.

<b>Day 1 – Wednesday 24<sup>th</sup> June</b>	
<b>9.00</b>	<b>Registration opens; Marquee Lady Mitchell Hall Lawn; Tea and coffee</b>
<b>10.00</b>	<p><b>Symposium Opens</b></p> <ul style="list-style-type: none"> <li>• <i>Wendy Pullan (Head of Department of Architecture, University of Cambridge)</i> <i>Opening address</i></li> <li>• <i>Marcial Echenique (University of Cambridge)</i> <i>Introduction</i></li> </ul>
<b>10:45</b>	<p><b><u>Session 1: Understanding the urban economy and infrastructure (Chair: David Newbery, University of Cambridge)</u></b></p> <ul style="list-style-type: none"> <li>• <b>Alex Anas</b> (SUNY Buffalo, US) and Ioannis Tikoudis (VU University Amsterdam and Tinbergen Institute, NL): <i>Numerical solution of general equilibrium models of urban transportation and land use: decomposition versus all-in-one approaches</i></li> <li>• [Paper tbc]</li> <li>• <b>Robin Morphet</b> (UCL, UK): <i>Spatial interaction under imperfect competition</i></li> <li>• <b>Scott Swisher</b> (Cambridge University, UK): <i>Reassessing railroads and growth: Accounting for transport network endogeneity</i></li> </ul>
<b>12.45</b>	<b>Buffet Lunch – Marquee</b>
<b>13:30</b>	<p><b><u>Session 2: Energy and urban form (chair: tbc)</u></b></p> <ul style="list-style-type: none"> <li>• <b>Michael Wegener</b>, Björn Schwarze and Klaus Spiekermann (Spiekermann &amp; Wegener Urban and Regional Research S&amp;W): <i>Are polycentric cities more energy-efficient?</i></li> <li>• <b>Yang Jiang</b> (Tsinghua University/China Sustainable Transportation Center, Beijing, China), Qizhi Mao, (Tsinghua University, Beijing, China), Dongquan He, (The Energy Foundation Beijing Office, Beijing, China): <i>Modelling the impact of urban form on household travel energy consumption and carbon emissions: a multi-scale approach</i></li> <li>• <b>João Fumega</b> Samuel Niza, Paulo Ferrão, (IN+ Research Centre, Instituto Superior Técnico (IST), University of Lisbo): <i>Modeling the impact of urban form on energy performance</i></li> <li>• <b>Javier Urquizo</b> (Newcastle University, UK): <i>A spatial domestic energy framework for sub-city areas: a case study from the United Kingdom</i></li> </ul>
<b>15.30</b>	<b>Afternoon Tea - Marquee</b>

16:00	<p><b>Session 3: Planning for sustainable land use and travel (Chair: John Bates, University of Oxford)</b></p> <ul style="list-style-type: none"> <li>• <b>Paul Waddell</b> Fletcher Foti and Michael Reilly, (University of California, Berkeley, US): <i>Innovations in urban modelling to support operational sustainability planning in the San Francisco Bay Area</i></li> <li>• <b>Michael Reilly</b> (University of California, Berkeley, US): <i>Recent microscale innovations in Bay Area UrbanSim</i></li> <li>• <b>Panagiotis Sourtzinis &amp; Dimitrios Makris</b>, (Kingston University, UK) and James Amos &amp; Vassilis Zachariadis, (Legion, UK): <i>Modelling pedestrian shopping behaviour</i></li> <li>• [Paper - tbc]</li> </ul>
18:30	Wine reception and buffet supper - Marquee

Day 2 – Thursday 25 <sup>th</sup> June	
9:00	<p><b>Session 4: Mapping cities (Chair: Peter Ferguson, UCL)</b></p> <ul style="list-style-type: none"> <li>• <b>Michael Batty</b> (UCL, UK): <i>Defining Nations, Regions and Cities in Britain Using Percolation Theory</i></li> <li>• <b>Stuart Barr</b> Daniel Caparros-Midwood &amp; Richard Dawson, (Newcastle University, UK): <i>Evolutionary computing for multi-objective sustainable urban spatial planning</i></li> <li>• <b>Long Cheng and Yan Liu</b> (The University of Queensland, Australia): <i>An entire-array-polygon (EAP) mapping approach to assess urban development suitability: a case study of Ezhou City, P. R. China</i></li> <li>• <b>Lang Wei and Edwin HW Chan</b> (The Hong Kong Polytechnic University, Hong Kong): <i>Land Use Pattern and spatial analysis of the major cities in China</i></li> </ul>
11.00	Morning Tea - Marquee

11:15	<p><b><u>Session 5: Urban transitions and the new normal (Chair: Johannes Bröcker, University of Kiel)</u></b></p> <ul style="list-style-type: none"> <li>• <b>Robert Cervero</b>, (University of California Berkeley, US): <i>Enriching Urban Mobility with Ride-hail Services.</i></li> <li>• <b>William Fawcett</b> (Cambridge Architectural Research, UK) <i>Upgradability of infrastructure and buildings</i></li> <li>• <b>Amy Fotheringham</b> and David Simmonds, (David Simmonds Consultancy, UK): <i>The case for land value taxation and the treatment of land value taxation in urban modelling</i></li> <li>• <b>Coen Teulings</b> (University of Cambridge) <i>Secular stagnation, human capital, house prices, and bubbles</i></li> </ul>
13:15	<p><b>Buffet Lunch – Marquee</b></p>
14:15	<p><b><u>Session 6: Transformation towards sustainable cities (Chair: Paul Waddell, University of California Berkeley)</u></b></p> <ul style="list-style-type: none"> <li>• <b>Barry Zondag</b> &amp; Jasper Willigers (Significance, NL) and Eric Molenwijk, (RWS, Ministry of infrastructure and Environment, NL): <i>Exploring the impacts of public transport oriented land use policies, a case study for the Rotterdam and The Hague area</i></li> <li>• <b>Pan Haixiao</b> (Tongji University Shanghai, China) and Wei Peng, (Wuhan Urban Planning Bureau, Hubei Province, China) <i>Effects of suburban rail transit proximity on commuting greenhouse gas emission</i></li> <li>• <b>Seiyong Kim</b> (University of Korea, South Korea), Gunwon Lee, Mokwon (University, South Korea), Yunnam Jeong, Politecnico di Milano: <i>Impact of individual transit, urban character and urban form</i></li> <li>• <b>David Greenwood</b> Matthew Duckett, Shrikant Sharma and Anders Johansson: <i>Are city parks an instrument for creating happier communities?</i></li> </ul>
16:15	<p><b>Afternoon Tea - Marquee</b></p>
16:30	<p><b><u>Session 7: Sustainable urban travel (Chair: Vassilis Zahariadis, UCL and University of Cambridge)</u></b></p> <ul style="list-style-type: none"> <li>• <b>Mark Padgham</b>, (University of Salzburg, Austria): <i>Using origin-destination data to discern the scales of cities</i></li> <li>• <b>Ian Williams</b>, (Cambridge University, UK): <i>Relating traffic growth rates in urban densification</i></li> <li>• <b>Liming Wang</b>, Jenny Liu &amp; Huajie Yang, (Portland State University, US), Brian Gregor, (Oregon Analytics, US) and Bud Reiff, (Oregon Metro, US): <i>Transport cost index: A comprehensive multimodal performance measure of transport and land use systems</i></li> <li>• <b>Andy Dobson</b>, Malcolm Neil, Amy Fotheringham and David Simmonds, (David Simmonds Consultancy, UK): <i>Modelling uncertainty in national demand forecasts</i></li> </ul>
19.00	<p><b>Conference Dinner (pre-booked only) - Old Music room, St. Johns College.</b></p>

**Day 3 – Friday 26<sup>th</sup> June**

<b>9:00</b>	<b><u>Session 8: Cities and its ecosystems (Chair: Steve Denman, University of Cambridge)</u></b> <ul style="list-style-type: none"><li>• <b>Philip James</b> (Salford University, UK): <i>Urban ecosystems – challenges for applied urban modelling</i></li><li>• <b>Athanasios Votsis</b> (University of Helsinki &amp; Finnish Meteorological Institute Finland): <i>Investing in ecosystem services: The spatial economic impacts of the type and location of urban green</i></li><li>• <b>Nahid Mohajer</b> &amp; Jean-Louis Scartezzinia (Ecole Polytechnique Fédérale de Lausanne (EPFL) Switzerland), Agust Gudmundsson, (Royal Holloway University of London, UK) and Jon R. French, (University College London, UK): <i>How green are British cities? Scaling relations and CO2 emissions</i></li><li>• <b>Christina Chatzipoulka</b> (University of Kent, UK): <i>The impact of urban geometry on the radiant environment in outdoor spaces: evidence across London</i></li></ul>
<b>11.00</b>	<b>Morning Tea - Marquee</b>
<b>11:15</b>	<b><u>Session 9: Climate in cities (Chair: Koen Steemers, University of Cambridge )</u></b> <ul style="list-style-type: none"><li>• <b>Andreas Matzarakis</b> (University Freiburg, Germany): <i>Urban climate and micro climate for urban planning and architecture – examples from Freiburg, Germany</i></li><li>• <b>Tania Sharmin</b> and Koen Steemers (University of Cambridge, UK): <i>Understanding micro-climatic conditions and outdoor thermal comfort perceptions from field measurements in the tropical megacity Dhaka, Bangladesh</i></li><li>• <b>Alistair Ford</b> (University of Newcastle, UK): <i>Modelling the impact of extreme rainfall events on urban transport systems</i></li><li>• <b>Mariarena Nikolopoulou</b> (Kent School of Architecture, UK): <i>Limitations of thermoregulatory models in outdoor thermal comfort: have we forgotten the person?</i></li></ul>
<b>13.15</b>	<b>Buffet Lunch - Garden Restaurant</b>

14:15	<p><b>Session 10: New tools for assessing green growth initiatives (Chair: tbc)</b></p> <ul style="list-style-type: none"> <li>• <b>Shoshanna Saxe</b> and Steve Denman (University of Cambridge, UK): <i>The greenhouse gas impacts of the Jubilee Line Extension ridership, London, UK</i></li> <li>• <b>Vassilis Zachariadis</b> Carlos Vargas-Ruiz, Peter Ferguson, Joan Serras, Michael Batty, (UCL, UK): <i>Introducing internal and external economies of scale in retail location modelling</i></li> <li>• [Paper - tbc]</li> <li>• <b>Claudio Martani</b>, Simon Stent, Sinan Acikgoz, Vassilis Zachariadis, Steve Denman, Ying Jin, Kenichi Soga (University of Cambridge, UK): <i>Real time-station monitoring and modelling for peak flow management. Results of tests conducted on technology-deployment at London-Bridge Station and plans for future actions</i></li> </ul>
16:15	<b>Round table discussion (Moderator: Michael Wegener)</b>
17:30	<b>Conference close</b>
18:45	<b>Conference Dinner – Professor Mike Batty’s Birthday (pre-booked only) Old Kitchen, Trinity College, Cambridge.</b>