

Version: 28 May 2016

Programme is subject to further refinements.

In the Opening ceremony, Keynote lectures, and Closing ceremony, capitalized name shows the last name.

In the parallel presentation tracks, title/designation is not included, all names are in the order of first name followed by last name, institution listed is based on the first author's only, and asterisk (*) marks the name of the presenter.

Day 1: Monday, 30 May 2016	
08:00	Registration <i>Location: Outside Auditorium 2</i>
08:50	Opening ceremony <i>Location: Auditorium 2</i> MC: Osrithalita Gabriela Moderator: Prof. WONG Nyuk Hien – Co-chairman of IC2UHI 2016, National University of Singapore, Singapore
09:00	Welcome speech 1. Prof. Hashem AKBARI – Chairman of IC2UHI 2016, Concordia University, Canada 2. Prof. Philip Li-Fan LIU – Vice President for Research and Technology, National University of Singapore, Singapore
09:30	Opening speech by Guest of Honour Dr. TEO Ho Pin – Mayor, North West District, Member of Parliament, Singapore
09:45	Keynote lecture 1 Dr. Ken YEANG – Architect, ecologist and author of ecoarchitecture and ecomasterplans, Malaysia Title: Theory, experiments and design ideas on ecoarchitecture and ecomasterplanning
10:15	Keynote lecture 2 Dr. Johnny WONG – Group Director, Building Research Institute, Housing & Development Board, Singapore Title: Our future living: challenges & opportunities
10:45	Keynote lecture 3 Prof. Edward NG – Yao Ling Sun Professor of Architecture, The Chinese University of Hong Kong, Hong Kong Title: Sustainable high density living in the tropics
11:15	Coffee break <i>Location: Outside Auditorium 2</i>

<p>11:45</p>	<p>Track 1.1 <i>Location: Auditorium 2</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Bernhard Klein</p> <ol style="list-style-type: none"> 1. Plenary speaker: Lim Tian Kuay*. Multi-scale urban system modelling for sustainable planning and design. National Environment Agency, Singapore. 2. Kazuhiro Iwai*, Naoki Takagi. Development of automated weather observation system for clarifying the actual condition of urban heat island. Shinshu University, Japan. [SUB05_FP-0005] 3. Yu-Cheng Chen*, Chih-Yu Chen, Andreas Matzarakis, Tzu-Ping Lin. The application of urban thermal environment assessment by using airborne LiDAR and infrared thermal imager: a case study in Banqiao city. National Cheng Kung University, Taiwan. [SUB05_FP-0017] 4. Elena Morini, Ali G. Touchaei, Federico Rossi, Franco Cotana, Hashem Akbari*. Evaluation of albedo enhancement to mitigate impacts of urban heat island in Rome (Italy) using WRF meteorological model. University of Perugia, Italy. [SUB05_FP-0052] 	<p>Track 1.2 <i>Location: Lecture Theatre 50</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Afshin Afshari</p> <ol style="list-style-type: none"> 1. Plenary speaker: Andreas Matzarakis*, Dominik Fröhlich, Marcel Gangwisch. Effect of radiation and wind on thermal comfort in urban environments? Application of the RayMan and SkyHelios model. Albert-Ludwigs-University Freiburg, Germany. [SUB02_FP-0007] 2. Constantinos Cartalis*, George Nyktarakis, Anastasios Polydoros, Mattheos Santamouris. Analysis of thermal hot spots in the urban area of Athens as a tool for focused public policies to reduce energy consumption of buildings. University of Athens, Greece. [SUB02_FP-0043] 3. Nektarios Chrysoulakis*, Mattia Marconcini, Anna Sazonova, Abraham Tal, Sebnem Dugun, Eberhard Parlow, Charalampopoulou Vassiliki, Zina Mitraka, Thomas Esch, Mahmut Catur, Christian Feigenwinter. Copernicus Sentinels for Urban Planning in Russia: The SEN4RUS Project. Foundation for Research and Technology Hellas (FORTH), Greece. [SUB02_FP-0013] 	<p>Track 1.3 <i>Location: Lecture Theatre 51</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Eiko Kumakura</p> <ol style="list-style-type: none"> 1. Plenary speaker: Elmira Jamei, Priyadarsini Rajagopalan*. Urban planning and pedestrian thermal comfort- a study of growing Melbourne city. Deakin University, Australia. [SUB02_FP-0045] 2. Sevgi Yilmaz*, Ahmed Koc, Emral Mutlu, Nalan Demircioglu Yildiz. Integration of thermal comfort information with spatial modelling in Erzurum city centre. Ataturk University, Turkey. [SUB02_FP-0028] 3. Bhaskar De*, Mahua Mukherjee. Impact of canyon design on thermal comfort in warm humid cities: a case of Rajarhat-New Town, Kolkata, India. IIT Rookee, India. [SUB02_FP-0062] 4. Yiqiang Xiao, Sihan Xue*. Study on the outdoor thermal comfort threshold of Lingnan Garden in summer. South China University of Technology, China. [SUB02_FP-0005] 	<p>Track 1.4 <i>Location: Lecture Theatre 52</i></p> <p>Topic: Special Topic: Recent UHI and climate change research from cities in Asia Pacific and tropical countries</p> <p>Moderator: Ronnen Levinson</p> <ol style="list-style-type: none"> 1. Plenary Speaker: Rajashree Kotharkar*, Anurag Bagade, Anurag Kandya. Study of urban heat island effect using Local Climate Zone and Land Surface Temperature using Landsat 7 ETM + for Nagpur, India. Visvesvaraya National Institute of Technology, India. [SUB05_FP-0058] 2. Chao Ren, Ran Wang*, Meng Chai, Yong Xu, Yinsheng Zheng, Edward Ng. Accuracy assessment of LCZ map generated by World Urban Database and Access Portal Tools method: a case study of Hong Kong. The Chinese University of Hong Kong, Hong Kong. [SUB01_FP-0009] 3. Lindita Bande*, Adalberto Guerra Cabrera, Leslie Norford, Afshin Afshari. Validation of UWG and ENVI-met models in an Abu Dhabi district, based on site measurements. Masdar Institute of Science and Technology, United Arab Emirates. [SUB03_FP-0006] 	<p>Track 1.5 <i>Location: Lecture Theatre 53</i></p> <p>Topic: Social and economic dimension: UHI economy & health and quality of life</p> <p>Moderator: Mattheos Santamouris</p> <ol style="list-style-type: none"> 1. Plenary Speaker: Susan Roaf*. Designing climate refuges into buildings and lifestyles in heat island cities. Heriot Watt University, United Kingdom. [SUB06_FP-0011] 2. Gertrud Hatvani-Kovacs*, Martin Belusko, John Pockett, John Boland. Assessment of heatwave impacts. University of South Australia, Australia. [SUB06_FP-0006] 3. Dimitra Founda, Mattheos Santamouris*, Aggelos Papanikolaou. Synergistic action between heat waves and UHI in Athens, with emphasis on coastal sites. Greece. National Observatory of Athens, Greece. [SUB01_FP-0006] 4. Dogan Dursun*, Merve Yavas. Urbanization and the use of climate knowledge in Erzurum, Turkey. Ataturk University, Turkey. [SUB06_FP-0009]
<p>12:50</p>	<p>Networking lunch <i>Location: Outside Auditorium 2</i></p>				

	<p>Keynote lectures <i>Location: Auditorium 2</i> Moderator: Prof. Mattheos SANTAMOURIS – Co-chairman of IC2UHI 2016, Professor of Energy Physics, University of Athens, Greece; Professor of High Performance Architecture, University of New South Wales, Australia</p>				
13:50	<p>Keynote lecture 4 Mr. CHIU Wen Tung – Acting Group Director (Research & Development), Urban and Redevelopment Authority, Singapore Title: Planning to manage the urban heat island effect</p>				
14:20	<p>Keynote lecture 5 Asst. Prof. Denia KOLOKOTSA – Chair Board of Directors, European Cool Roofs Council; Assistant Professor, Technical University of Crete, Greece Title: The role of nature based solutions in climate change mitigation and adaptation [SUB07_FP-0014]</p>				
14:50	<p>Keynote lecture 6 Assoc. Prof. Hideki TAKEBAYASHI – Department of Architecture, Kobe University, Japan Title: Appropriate heat island measures for each site, location and region</p>				
15:20	<p>Tea break <i>Location: Outside Auditorium 2</i></p>				
15:50	<p>Track 2.1 <i>Location: Auditorium 2</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Gloria Pignatta</p> <ol style="list-style-type: none"> Plenary Speaker: Adrien Gros, Emmanuel Bozonnet*, Christian Inard, Marjorie Musy. A new performance indicator to assess building and district cooling strategies. University of La Rochelle, France. [SUB02_FP-0042] Mattheos Santamouris*, John Paravantis, C. Efthymiou, C. Kartalis. Heat effects and mortality in Athens, Greece. [SUB06_FP-0005] Yuezhong Liu*, Rudi Stouffs, Abel Tablada, Nyuk Hien Wong, Ji Zhang. Development of micro-scale weather data on building energy consumption in 	<p>Track 2.2 <i>Location: Lecture Theatre 50</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Constantinos Cartalis</p> <ol style="list-style-type: none"> Plenary speaker: Amirhosein Ghaffarianhoseini, Umberto Berardi*, Ali Ghaffarianhoseini, John Tookey. Thermal characteristics of outdoor spaces: Mitigating the UHI effects in Kuala Lumpur, Malaysia. University of Malaya, Malaysia. [SUB05_FP-0026] Yurong Shi*, Jie Wu, Yufeng Zhang. Remote sensing of microclimate of urban neighbourhoods in hot-humid region. South China University of Technology, China. [SUB05_FP-0044] Aytac Kubilay*, Dominique Derome, Jan Carmeliet. Urban microclimate model using a coupled approach for CFD, radiation, wind-driven rain and 	<p>Track 2.3 <i>Location: Lecture Theatre 51</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Ruey-Lung Hwang</p> <ol style="list-style-type: none"> Plenary speaker: Tzu-Ping Lin*, Yu-Cheng Chen, Chien-Ting Lin. Mapping the thermal stress distributions based on urban development and long-term climate data. National Cheng Kung University, Taiwan. [SUB05_FP-0018] Jie Wu*, Yufeng Zhang. The temporal-spatial distributions of outdoor thermal environments for high-rise residential communities in the hot-humid area. South China University of Technology, China. [SUB05_FP-0057] Boukhelkhal Islam*, F. Bourbia. Thermal comfort conditions in outdoor urban spaces: hot dry climate - Ghardaia – Algeria. 	<p>Track 2.4 <i>Location: Lecture Theatre 52</i></p> <p>Topic: Special Topic: Recent UHI and climate change research from cities in Asia Pacific and tropical countries</p> <p>Moderator: Mohan Khire</p> <ol style="list-style-type: none"> Plenary speaker: Chao Ren*. The study of Local Climate Zone for Chinese cities and its implementation to local urban development. The Chinese University of Hong Kong. Hideki Takebayashi*, Masashi Senoo. Analysis of the relationship between urban size and heat island intensity using WRF model. Kobe University, Japan. [SUB01_FP-0005] Manju Mohan*, Shweta Bhati. WRF-Urban canopy model evaluation for the heat island assessment under varying land 	<p>Track 2.5 <i>Location: Lecture Theatre 53</i></p> <p>Topic: Special Topic: Recent UHI and climate change research from cities in Asia Pacific and tropical countries</p> <p>Moderator: Federico Rossi</p> <ol style="list-style-type: none"> Plenary speaker: Pattaranan Takkanon*. A study of height to width ratios and Urban Heat Island Intensity of Bangkok. Kasetsart University, Thailand. [SUB01_FP-0014] Jason Toh*, Jillian Walliss. Design strategies for modifying the experience of humidity in Singapore's Orchard Road. University of Melbourne, Australia. [SUB01_FP-0002] Kentaro Maeda*, Kazuki Yamaguchi, Nisrina Setyo Darmanto, Alvin Christopher Galangc Varquez, Yukihiro

	<p>Singapore. National University of Singapore, Singapore. [SUB02_FP-0021]</p> <p>4. Riccardo Paolini*, Andrea Zani, Maryam Meshkin Kiya, Veronica Lucia Castaldo, Anna Laura Pisello, Florian Antretter, Tiziana Poli, Franco Cotana. The influence of urban microclimate on building energy needs and hygrothermal performance. Politecnico di Milano, Italy. [SUB02_FP-0014]</p>	<p>transport in building materials. Empa, Switzerland. [SUB05_FP-0054]</p>	<p>University of Larbi Ben M'Hidi Oum El Bouaghi, Algeria. [SUB05_FP-0004]</p> <p>4. Hiroki Yokoyama*, Ryoza Ooka, Hideki Kikumoto. Study of mobile measurement for detailed temperature distribution in a high-density urban area in Tokyo. The University of Tokyo, Japan. [SUB05_FP-0011]</p>	<p>use/land cover conditions. Indian Institute of Technology Delhi, India. [SUB05_FP-0033]</p> <p>4. Nektarios Chrysoulakis*, Wieke Heldens, Jean-Philippe Gastellu-Etchegorry, C. S. B. Grimmond, Christian Feigenwinter, Frederik Linberg, Fabio Del Frate, Judith Klostermann, Zina Mitraka, Thomas Esch, Ahmad Al Bitar, Andy Gabey, Eberhard Parlow, Frans Olofson. Anthropogenic heat flux estimation from space: the URBANFLUXES project. Foundation for Research and Technology Hellas (FORTH), Greece. [SUB03_FP-0003]</p>	<p>Kikegawa, Manabu Kanda, Tomohiko Ihara. Evaluation of the UHI mitigation potential of green roofs in Jakarta. The University of Tokyo, Japan. [SUB01_FP-0013]</p> <p>4. Jaehyun Ha, Sugie Lee*, Cheolyeong Park. The temporal effects of environmental characteristics on urban air temperature: The influence of sky view factor. Hanyang University, Korea, Republic of. [SUB01_FP-0015]</p>
<p>16:55</p>	<p>Track 3.1 <i>Location: Auditorium 2</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Andreas Matzarakis</p> <p>1. Shi Yin*, Yiqiang Xiao. Scale study of traditional shop house street in south of China based on outdoor thermal comfort. South China University of Technology, China. [SUB05_FP-0023]</p> <p>2. Ji Zhang*, Daniel Hii Jun Chung. A preliminary simulation study of the impact of building typology on cooling loads and outdoor thermal comfort potential in the tropical context. National University of Singapore, Singapore. [SUB02_FP-0048]</p>	<p>Track 3.2 <i>Location: Lecture Theatre 50</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Fabrizio Ascione</p> <p>1. Ali G. Touchaei, Hashem Akbari*, Zahra Jandaghian. Sensitivity analysis of physical parameterizations in WRF over Montreal (Canada). Concordia University, Canada. [SUB05_FP-0061]</p> <p>2. Steve Kardinal Jusuf, Marcel Ignatius*, Nyuk Hien Wong. Urban climatic mapping using prediction models for ambient temperature and outdoor thermal comfort: a Singapore case study. National University of Singapore Singapore. [SUB05_FP-0016]</p>	<p>Track 3.3 <i>Location: Lecture Theatre 51</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Tzu-Ping Lin</p> <p>1. Kostantinos Gobakis, Denia Kolokotsa*. Coupling building energy simulation software with Computational Fluid Dynamics for the evaluation of the impact of urban outdoor conditions on the energy consumption and indoor environmental quality. Technical University of Crete, Greece. [SUB09_FP-0005]</p> <p>2. Karthikeyan Kumarasamy*, Jinliang An, Jinglei Yang, En-Hua Yang. Numerical modelling and characterization of phase change material filled microcapsules for building cooling applications. Nanyang Technological University, Singapore. [SUB07_FP-0012]</p>	<p>Track 3.4 <i>Location: Lecture Theatre 52</i></p> <p>Topic: Cooling effect of natural sources on evaporation & evapotranspiration (vegetation, lakes, rivers ground)</p> <p>Moderator: Michele Zinzi</p> <p>1. Peter Edwards*, Tal Hertig, Felix Sadlo. A simple method to estimate evaporative cooling by urban trees. Singapore-ETH Centre, Singapore. [SUB04_FP-0012]</p> <p>2. Shoko Hashida, Atsumasa Yoshida*, Shinichi Kinoshita, Yasuhiro Shimazaki. Evaluation of thermal sensation and thermal design using measurement data of thermal environment of premises woods. Tokyo City University, Japan. [SUB04_FP-0014]</p>	<p>Track 3.5 <i>Location: Lecture Theatre 53</i></p> <p>Topic: Cool materials, roof, pavement and advance materials developments & characteristics</p> <p>Moderator: Susan Roaf</p> <p>1. Fabrizio Ascione, Nicola Bianco, Rosa Francesca De Masi*, Mattheos Santamouris, Giuseppe Peter Vanoli. Energy performance of cool-colours and roofing coatings in reducing the free solar gains during the heating season: results of an in-field investigation. University of Naples Federico II, Italy. [SUB10_FP-0002]</p> <p>2. Jiachuan Yang, Zhihua Wang*, Kamil E. Kaloush, Heather Dylla. Effect of pavement types on urban thermal environment. Arizona State University, United States. [SUB10_FP-0001]</p>

	<p>3. Yasuhiro Shimazaki*, Atsumasa Yoshida, Takanori Yamamoto. Evaluating combined effects of radiation and metabolism on pedestrian comfort. Okayama Prefectural University, Japan. [SUB02_FP-0010]</p> <p>4. Anna Laura Pisello*, Federica Rosso, Veronica Castaldo, Cristina Piselli, Claudia Fabiani, Marco Ferrero, Franco Cotana. The role of people educational background on their vulnerability to urban overheating. University of Perugia, Italy. [SUB06_FP-0003]</p>	<p>3. Md. Abdul Muqit Zoarder, Syed Monjur Murshed*, Jean-Marie Bahu3 and Volker Coors. Development of an integrated GIS based approach for urban heat island modelling. Leibniz Centre for Agricultural Landscape Research, Germany. [SUB05_FP-0060]</p> <p>4. Christina Georgatou, Dionysia-Denia Kolokotsa, Kostas Kalaitzakis Stelios C. Zerefos, John Kapsomenakis, Mattheos Santamouris*. Long-term prediction of temperature data for the assessment of future energy trends. Technical University of Crete, Greece. [SUB05_FP-0050]</p>	<p>3. Ramalingam Muthukumaran*, Hee Joo Poh, Harish Gopalan. Numerical studies by a Monte Carlo algorithm applied to solar irradiance estimation in an urban street canyon during dense haze conditions. Institute of High Performance Computing A-STAR, Singapore. [SUB05_FP-0022]</p> <p>4. Nur Farhana Mohamad Kasim*, Sheikh Ahmad Zaki Shaikh Salim, Mohamed Sukri Mat Ali, Naoki Ikegaya, Azli Abd Razak. Computational study on the influence of different opening position on wind-induced natural ventilation in urban building of cubical array. Universiti Teknologi Malaysia, Malaysia. [SUB05_FP-0031]</p>	<p>3. Nedyomukti Imam Syafii*, Masayuki Ichinose, Nyuk Hien Wong, Eiko Kumakura, Steve Kardinal Jusuf, Kohei Chigusa. Experimental study on the influence of urban water body on thermal environment at outdoor scale model. Tokyo Metropolitan University, Japan. [SUB04_FP-0006]</p> <p>4. Nyuk Hien Wong, Puay Yok Tan, Chun Liang Tan*, Chin Voon Jesslyn Lim, Valerie Hui Xuan Chua, Hiroyuki Takasuna, Tadashi Kudo, Yuichi Takemasa. Impact of soil and water retention characteristics on green roof thermal performance. National University of Singapore, Singapore. [SUB04_FP-0003]</p>	<p>3. Haley Gilbert, Pablo J. Rosado, Ronnen M. Levinson*, Dev Millstein, Benjamin H. Mandel, George Ban-Weiss, Arash Mohegh, John T. Harvey. A case study evaluation of the life cycle effects of cool pavements. Lawrence Berkeley National Laboratory, United States. [SUB10_FP-0015]</p> <p>4. Hasan Yilmaz*, Sevgi Yilmaz, Merve Yavas, Emral Mutlu, Ahmet Koc. Climate-sensitive pavement modelling for pedestrian ways. Ataturk University, Turkey. [SUB10_FP-0012]</p>
18:00	End of Day 1				

Day 2: Tuesday, 31 May 2016

08:00	Registration <i>Location: Outside Auditorium 2</i>
08:50	Keynote lectures <i>Location: Auditorium 2</i> Moderator: Asst. Prof. Steve Kardinal JUSUF – Co-chairman of IC2UHI 2016, Singapore Institute of Technology, Singapore
09:00	Keynote lecture 7 Mr. TAN Tian Chong – Group Director of Research Group, Building and Construction Authority, Singapore Title: Research and innovation in Singapore’s built environment to meet the climate change challenge
09:30	Keynote lecture 8 Prof. Mattheos SANTAMOURIS – Professor of Energy Physics, University of Athens, Greece; Professor of High Performance Architecture, University of New South Wales, Australia Title: Cooling the future - The impact of climate change, population increase and possible economic recovery
10:00	Coffee break <i>Location: Outside Auditorium 2</i>
	Keynote lectures <i>Location: Auditorium 2</i> Moderator: Prof. Hashem AKBARI – Chairman of IC2UHI 2016, Concordia University, Canada
10:30	Keynote lecture 9 Dr. Ronnen LEVINSON – Staff Scientist and Leader, Heat Island Group, Lawrence Berkeley National Laboratory, Berkeley, California, USA Title: New dimensions and new directions—updates from the Berkeley Lab Heat Island Group
11:00	Keynote lecture 10 Ms. TANG Hsiao Ling – Director of Land Planning Division, JTC Corporation, Singapore Title: Towards a sustainable industrial landscape
11:30	Keynote lecture 11 Mr. Kurt SHICKMAN – Executive Director, Global Cool Cities Alliance, USA Title: What Cities are doing to reduce urban heat: a review
12:00	Networking lunch <i>Location: Outside Auditorium 2</i>

<p>13:00</p>	<p>Track 4.1 <i>Location: Auditorium</i></p> <p>Topic: Cooling effect of natural sources on evaporation & evapotranspiration (vegetation, lakes, rivers ground)</p> <p>Moderator: Paul Osmond</p> <ol style="list-style-type: none"> 1. Plenary speaker: Atsumasa Yoshida*, Shinichi Kinoshita, Yasuhiro Shimazaki, Shoko Hashida. Field investigation on thermal environment for several types of greenery and evaluation of thermal sensation. Japan. Osaka Prefecture University, Japan. [SUB04_FP-0015] 2. Carlos Bartesaghi Koc*, Paul Osmond, Alan Peters. A green infrastructure typology matrix to support urban microclimate studies. University of New South Wales, Australia. [SUB04_FP-0002] 3. Haruki Oshio*, Takashi Asawa. Estimating the transpiration rate of urban trees using airborne laser scanning and radiative transfer simulation. Tokyo Institute of Technology, Japan. [SUB04_FP-0011] 4. Wanyu Shih*. Greenspace configuration and the mitigation of land surface temperature: A case study of Taipei Metropolis. Ming Chuan University, Taiwan. [SUB04_FP-0010] 	<p>Track 4.2 <i>Location: Lecture Theatre 50</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Peter Edwards</p> <ol style="list-style-type: none"> 1. Plenary speaker: Constantinos Cartalis*, Dimitra Tzelidi, Anastasios Polydoros, Thaleia Mavroukou, Nektarios Chrysoulakis. A comparative examination of the relationship between land surface temperature and urban planning and development: an application for cities in the Mediterranean region. National and Kapodistrian University of Athens, Greece. [SUB02_FP-0025] 2. Jiyu Deng*, Nyuk Hien Wong, Xin Zheng. The study of the effects of building arrangement on microclimate and energy demand of CBD in Nanjing, China. Southeast University, China. [SUB02_FP-0011] 3. Makoto Yokoyama*, Kaoru Matsuo, Takahiro Tanaka, Satoru Sadohara. Study on future land use planning with effective sea breeze use: Case study in Kanagawa Prefecture, Japan. Hiroshima University, Japan. [SUB02_FP-0058] 4. Ruihan Wei*, Dexuan Song, Nyuk Hien Wong. Impact of urban morphology parameters on microclimate. Tongji University, China. [SUB02_FP-0049] 5. Jingjin Li*, Jiangguo Wang, Nyuk Hien Wong. Urban micro-climate research in high density cities: case study in 	<p>Track 4.3 <i>Location: Lecture Theatre 51</i></p> <p>Topic: Anthropogenic heat and urban pollution</p> <p>Moderator: Priyadarsini Rajagopalan</p> <ol style="list-style-type: none"> 1. Plenary speaker: Masayuki Ichinose*, Takashi Inoue, Tsutomu Nagahama. Effect of retro-reflecting transparent window on the anthropogenic urban heat balance. Tokyo Metropolitan University, Japan. [SUB03_FP-0010] 2. Daniel Jun Chung Hii*, Nyuk Hien Wong, Steve Kardinal Jusuf. Anthropogenic heat impact on air temperature in the Singapore Central Business District in 2014. National University of Singapore, Singapore. [SUB03_FP-0008] 3. Chao Yuan*, Edward Ng, Leslie Norford. Computational parametric study to improve air quality in high-density cities. Massachusetts Institute of Technology, United States and Singapore University Technology and Design, Singapore. [SUB03_FP-0004] 4. Miguel Martin*, Daniel Jun Chung Hii, Marcel Ignatius, Nyuk Hien Wong. Predictability of urban air temperature changes from variations of PM2.5 concentration during the 2015 Southeast Asian transboundary haze episode. National University of Singapore, Singapore. [SUB03_FP-0007] 5. Karl Wagner*. Brace for the haze - healthy indoor air quality via smog protection in perspective. University 	<p>Track 4.4 <i>Location: Lecture Theatre 52</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Kwanho Lee</p> <ol style="list-style-type: none"> 1. Plenary speaker: Haiyan Miao*, Harish Gopalan, Bingfang Wang, Hee Joo Poh, Jing Lou. Effects of building arrangement, greenery and water body on pedestrian wind and thermal environment around buildings. Institute of High Performance Computing, Singapore. [SUB05_FP-0006] 2. Chao Ding*, Khee Poh Lam, Nyuk Hien Wong. Coupled natural ventilation modelling for contextual parametric design decision support. Carnegie Mellon University, United States. [SUB05_FP-0032] 3. Yueyang He*, Abel Tablada, Nyuk Hien Wong. Exploring the influence of orthogonal breezeway network patterns on high-density urban ventilation at pedestrian level. National University of Singapore, Singapore. [SUB05_FP-0020] 4. Yuelang Gan*, Hong Chen. Discussion on the applicability of urban morphology index system for block natural ventilation research. Huazhong University of Science and Technology, China. [SUB05_FP-0027] 5. Mohamad Nor Hafidz Arif Razali, Sheikh Ahmad Zaki*, Mohamed Sukri Mat Ali, Norio Arai. A 	<p>Track 4.5 <i>Location: Lecture Theatre 53</i></p> <p>Topic: Cool materials, roof, pavement and advance materials developments & characteristics</p> <p>Moderator: Anna Laura Pisello</p> <ol style="list-style-type: none"> 1. Plenary speaker: Religiana Hendarti*, Firza Utama Sjarifudin. Form finding of building integrated photovoltaic using parametric study to improve the environment. Bina Nusantara University, Indonesia. [SUB10_FP-0014] 2. Chiara Ferrari*, Alberto Muscio, Cristina Siligardi. Development of a solar-reflective ceramic tile ready for industrialization. University of Modena and Reggio Emilia, Italy. [SUB10_FP-0010] 3. Jinliang An*, En-Hua Yang, Jinglei Yang. Synthesis of robust SiO2-PCM microcapsules for latent heat storage. Nanyang Technological University, Singapore. [SUB10_FP-0011] 4. Zhijun Zhang, Shanshan Tong*. Life cycle analysis of cool roof in tropical areas. Tianjin Institute of Surveying and Mapping, China. [SUB10_FP-0008] 5. Ratish Arumugam, Vishal Garg*, Niranjana Reddy, Hema Rallapalli, Ronnen Levinson, Sasank B.,
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		Nanjing. Southeast University, China. [SUB02_FP-0030]	of Kuala Lumpur, Malaysia. [SUB03_FP-0009]	numerical analysis of wind flow within and above idealised modified terraced house canyon in Malaysia. Universiti Teknologi Malaysia, Malaysia. [SUB05_FP-0043]	Vinay N., Rajappa T. Design of cool roof evaluation Apparata. Saint-Gobain Research India, Pvt. Ltd., India. [SUB09_FP-0012]
14:20	<p>Track 5.1 <i>Location: Auditorium</i></p> <p>Topic: Development of performance testing standards for cool materials</p> <p>Moderator: Chao Ren</p> <ol style="list-style-type: none"> Ronnen Levinson*, Sharon Chen, Chiara Ferrari, Paul Berdahl, Jonathan Slack. Methods and instrumentation to measure the effective solar reflectance of fluorescent cool surfaces. Lawrence Berkeley National Laboratory, United States. [SUB11_FP-0002] Peihao Wu, Shichao Yang, Quan Zhou, Yafeng Gao*, Jiang Feifei, Jianxin Li, Changqin Lin, Ronnen Levinson, Jing Ge, Nan Li. Cool roof experiments and simulations in China. Chongqing University, China. [SUB11_FP-0003] Angus Gentle, Geoff Smith, Rex Lehmann, Chris Crawley*. Recent advances in high performance cool roof coatings. University of Technology Sydney, Australia. [SUB10_FP-0003] Riccardo Paolini*, Mohamad Sleiman, Giancarlo Terraneo, Tiziana Poli, Michele Zinzi, Ronnen Levinson, Hugo Destailats. An accelerated procedure to mimic weathering and soiling of building envelope materials in European urban areas. Politecnico di Milano, Italy and Lawrence Berkeley National 	<p>Track 5.2 <i>Location: Lecture Theatre 50</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Emmanuel Bozonnet</p> <ol style="list-style-type: none"> Alberto Muscio, Hashem Akbari*. An indicator for the overall dynamic behaviour of an opaque building element subjected to solar radiation. University of Modena and Reggio Emilia, Italy. [SUB02_FP-0063] Mohammad Taleghani, Umberto Berardi*. The effect of pavement albedo on the thermal comfort in a new urban open space. Delft University of Technology, The Netherlands, University of Southern California, United States. [SUB02_FP-0022] Anurag Kandya*, Manju Mohan. Mitigating the UHI effect through building envelope modification. Pandit Deendayal Petroleum University, India. [SUB10_FP-0016] Taizo Aoyama*, Takeshi Sonoda, Yasushi Nakanishi, Junichiro Tanabe, Hideki Takebayashi. Study on aging of solar reflectance of the self-cleaning high reflectance coating. Kaneka Corporation, Japan. [SUB02_FP-0068] 	<p>Track 5.3 <i>Location: Lecture Theatre 51</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Li Yang</p> <ol style="list-style-type: none"> Feng-Yi Lin*, Ruey-Lung Hwang, Pei-Ru Wu, Chien-Ting Lin, Tzu-Ping Lin. Analysis of correlation between energy consumption of buildings and urban heat island phenomenon based on high-resolution mapping. National Cheng Kung University, Taiwan. [SUB02_FP-0024] Shanshan Tong*, Nyuk Hien Wong. Urban Heat Island effect in a city area in Northern China during summer and winter. National University of Singapore, Singapore. [SUB01_FP-0004] Youpei Hu*, Marcus White, Wowo Ding. An urban form experiment on urban heat island effect in high density area. Nanjing University, China. [SUB02_FP-0066] Xuefan Zhou*, Hong Chen, Baofeng Li. Study on the impact of compact city developing pattern on urban heat island phenomenon. Huazhong University of Science and Technology, China. [SUB02_FP-0006] 	<p>Track 5.4 <i>Location: Lecture Theatre 52</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Hideki Kikumoto</p> <ol style="list-style-type: none"> Johnathan Yik, Binfang Wang*, Huizhe Liu, Viet Phuong Bui, Kelvin Wenhui Li, Sze Tiong Tan, Wee Shing Koh. Use of randomly-generated tree structures for parameterization of simplified simulation models. Institute of High Performance Computing, Singapore. [SUB05_FP-0007] Lento Manickathan*, T. Defraeye, J. Allegrini, D. Derome, J. Carmeliet. Aerodynamic characterisation of model vegetation by wind tunnel experiments. ETH Zurich, Switzerland. [SUB05_FP-0065] Toshifumi Kitahara, Naoki Takagi*, Motofumi Marui. The effect of wind speed reduction by trees in green spaces on temperature. Taikisha Limited, Japan. [SUB05_FP-0013] Masaru Sasaki*, Makoto Yokoyama, Kaoru Matsuo, Takahiro Tanaka, Satoru Sadohara. Analysis on the relationship between wind distributions and urban form in coastal and high-rise urban area. 	<p>Track 5.5 <i>Location: Lecture Theatre 53</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Ji Zhang</p> <ol style="list-style-type: none"> Vasilis Lontorfos, Chrysanthi Efthimiou, Mattheos Santamouris*. Theoretical and experimental evaluation of environmental rehabilitation of a large urban area in Athens using reflective and photovoltaic materials. University of Athens, Greece. [SUB05_FP-0046] Csilla V. Gal*. The effectiveness of shade trees for urban heat mitigation, a comparative numerical simulation study. Independent researcher, United States. [SUB05_FP-0039] Yanqiu Cui, Haichao Zheng*. Impact of three-dimensional greening of buildings in cold regions in China on urban cooling effect. Shandong Jianzhu University, China. [SUB05_FP-0063] Huizhe Liu*, Viet Phuong Bui, Binfang Wang, Wee Shing Koh. Hybrid ray tracing technique for adaptive 3D shadow generation. Institute of High Performance Computing, Singapore. [SUB05_FP-0025]

	Laboratory, United States. [SUB11_FP-0001]	5. Tianyi Min*. Study on the climate adaptability of architectural interface opening in Suzhou's regional residences. Southeast University, China. [SUB02_FP-0041]	5. François Leconte*, Julien Bouyer, Rémy Claverie, Mathieu Pétrissans. Statistical relationship between nocturnal cooling of districts and urban indicators. ADEME, CEREMA Direction Territoriale Est., LERMAB, France. [SUB02_FP-0017]	Hiroshima University, Japan. [SUB05_FP-0056] 5. Nicolas Ramirez Goicoechea*, Afshin Afshari. Evaluating the urban wind profile in Abu Dhabi down-town through a Computational Fluid Dynamics simulation. Masdar Institute of Science and Technology, United Arab Emirates. [SUB05_FP-0040]	5. Duo Xu*, Dian Zhou. Research on the planning methods of mitigating summer urban heat island effects among basin cities-a case study at Xi'an, China. Xi'an Jiaotong University, China. [SUB05_FP-0028]
15:35	Tea break <i>Location: Outside Auditorium 2</i>				
16:05	Track 6.1 <i>Location: Auditorium 2</i> Topic: Relationship between UHI, urban planning and building energy consumption and comfort Moderator: Liping Wang 1. Plenary speaker: Li Yang*, De-Xuan Song, Ke-Jia Zheng. Research on urban heat-island effect. Tongji University, China. [SUB02_FP-0001] 2. Lin Liu*, Jing Liu, Yaoyu Lin. Spatial-temporal analysis of the urban heat island of a subtropical city by using mobile measurement. Harbin Institute of Technology, China. [SUB02_FP-0016] 3. Caio Federico e Silva, Isabela Ferrari Rey Carneiro*, Júlia Lemos Markiewicz. The urban sectorization of Lúcio Costa's modernism and the emergency of heat	Track 6.2 <i>Location: Lecture Theatre 50</i> Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling) Moderator: Rajashree Kotharkar 1. Plenary speaker: Adalberto Guerra Cabrera, Nicolas Ramirez Goicoechea, Nyuk Hien Wong, Steve Kardinal Jusuf, Afshin Afshari*. A comparison of procedures for urban energy simulation based on detailed building geometry and UMI's shoebox approximation in a Singapore district. Masdar Institute of Science and Technology, United Arab Emirates. [SUB02_FP-0032] 2. Jonas Allegrini*, Jan Carmeliet. Simulations of local heat islands in Zürich with coupled CFD and building energy models. Swiss Federal Laboratories for Materials Science and Technology (Empa), Switzerland. [SUB05_FP-0051] 3. Miguel Martin*, Daniel Jun Chung Hii, Marcel Ignatius. Nyuk Hien Wong. Comparison between a simplified and detailed building energy model coupled	Track 6.3 <i>Location: Lecture Theatre 51</i> Topic: Social and economic dimension: UHI economy & health and quality of life Moderator: Toshiaki Ichinose 1. Plenary speaker: Gloria Pignatta*, Chryso Chatzinikola, Georgios Artopoulos, Costas N. Papanicolas, Despina K. Serghides, Mattheos Santamouris. Winter survey on the indoor environmental quality in low and very low income households in Cyprus. University of Perugia, Italy. [SUB06_FP-0008] 2. Naoko Nozaki, Kunihiko Fujiwara*, Tomohiro Kuroki, Takuro Kikuchi, Kuniaki Andou. Study on user behavior and satisfaction at two divergent work spaces with the space information indication system. Takenaka Corporation, Japan. [SUB06_FP-0002] 3. Valentina Peyronel, Valentina Serra*, Alfredo Mela. Schoolyards as case study to implement UHI mitigation measures under a	Track 6.4 <i>Location: Lecture Theatre 52</i> Topic: Cooling effect of natural sources on evaporation & evapotranspiration (vegetation, lakes, rivers ground) Moderator: Atsumasa Yoshida 1. Plenary speaker: Michele Zinzi*, Emiliano Carnielo, Gabriele Battista, Roberto de Lieto vollaro. Impact of urban temperatures on the potentialities of ventilative cooling in residential buildings: the case of Rome, Italy. ENEA, Italy. [SUB02_FP-0054] 2. Paul Osmond*, K.M. Zakiur Rahman. Developing a leaf area index database to inform green infrastructure and urban microclimate research. University of New South Wales, Australia. [SUB04_FP-0008] 3. Martin Hendel*, Arnaud Grados, Laurent Royon. Fine tuning pavement-watering to urban paving materials: a laboratory	Track 6.5 <i>Location: Lecture Theatre 53</i> Topic: Cool materials, roof, pavement and advance materials developments & characteristics Moderator: Religiana Hendarti 1. Plenary speaker: Beatrice Castellani, Andrea Presciutti, Elena Morini, Elisabetta Anderini, Mirko Filippini, Andrea Nicolini, Federico Rossi*, Investigation on the optic-energy interaction between retro reflective facades and pavement in urban canyons. University of Perugia, Italy. [SUB10_FP-0006] 2. Norishahaini Mohamed Ishak*, Nyuk Hien Wong, Steve Kardinal Jusuf, Yong Xiong Sim, Tsutomu Nagahama, Masayuki Ichinose. Impact of retro-reflective material on Urban Heat Island in tropics. National University of Singapore, Singapore. [SUB10_FP-0013] 3. Shinji Yoshida*, Saori Yumino, Taiki Uchida, Akashi Mochida. Numerical analysis of the effects of windows with heat ray retro-

	<p>islands in the capital of Brazil. University of Brasilia, Brazil. [SUB02_FP-0018]</p> <p>4. Junjing Yang*, Mattheos Santamouris, Siew Eang Lee, Chirag Deb. Decrease the anthropogenic heat in University Campus through advanced energy consumption management and retrofitting strategies. National University of Singapore, Singapore. [SUB03_FP-0002]</p> <p>5. Kwanho Lee*, Geoffery Levermore. Evaluation of urban heat island intensity and heating and cooling load on the urban and rural area. Ulsan College, Korea, Republic of. [SUB02_FP-0015]</p>	<p>with an urban canopy model. National University of Singapore, Singapore. [SUB05_FP-0009]</p> <p>4. Dominic Chandar, Harish Gopalan*, Miao Haiyan. A coupled mesoscale-microscale framework for urban flow simulations on overlapping meshes. Institute of High Performance Computing, Singapore. [SUB05_FP-0012]</p> <p>5. Kotaro Arai, Yuki Takizawa, Naoki Takagi*, Kazuhiro Iwai. The model case of urban development for heat island problem with wind in Nagano city. Shinshu University, Japan. [SUB05_FP-0003]</p>	<p>socially inclusive perspective. Politecnico di Torino, Italy. [SUB06_FP-0007]</p> <p>4. Zahra Jandaghian, Hashem Akbari*. Urban heat island and human health. Concordia University, Canada. [SUB06_FP-0010]</p> <p>5. Mattheos Santamouris*. Shaping the intrinsic dynamism of the construction sector to satisfy actual and future climatic challenges – innovative to zero the construction sector. University of Athens, Greece. [SUB06_FP-0004]</p>	<p>approach. Univ Paris Diderot, France. [SUB04_FP-0004]</p> <p>4. Zheng Tan*, Edward Ng. Enhancing outdoor comfort and climate resilience with mitigation strategies: optimized planning methods for tree planting in subtropical high-density cities. The Chinese University of Hong Kong, China. [SUB04_FP-0009]</p> <p>5. Hiroyuki Takasuna*, Tadashi Kudo, Yuichi Takemasa, Nyuk Hien Wong, Puay Yok Tan, Chun Liang Tan, Chin Voon Jesslyn Lim, Hui Xuan Valerie Chua. Impact of soil and water retention characteristics on evapotranspiration behaviour of plants in a green roof. Kajima Technical Research Institute, Japan. [SUB04_FP-0007]</p>	<p>reflective film on the outdoor thermal environment within a two-dimensional rectangular cavity-type street canyon. Nara Women's University, Japan. [SUB10_FP-0007]</p> <p>4. Federica Rosso, Anna Laura Pisello*, Franco Cotana, Marco Ferrero, Weihua Jin. Cool colored concrete for building envelope and urban paving application. Sapienza Università di Roma, Italy. [SUB10_FP-0004]</p> <p>5. Tsutomu Nagahama*, Taketoshi Sato, Tatsuya Harima, Jun Shimizu. Upward reflectance and field test results of albedo. Dexerials Corporation, Japan. [SUB07_FP-0013]</p>
17:40	<p>Trip to HortPark <i>Location: bus waiting area</i></p>				
18:30	<p>Networking dinner <i>Location: MPH and HortLawn, HortPark</i> <i>Address: 33 Hyderabad Road, Off Alexandra Road, Singapore 119578</i></p> <p>All participants who paid for early bird rate, standard rate, student rate, or networking dinner are invited to the dinner with music and dance performance. Shuttle bus is provided from conference venue to HortPark and from HortPark to Kent Ridge MRT Station and HarbourFront MRT Station. Student travel awards are announced in this session.</p>				
21:00	<p>End of Day 2</p>				

Day 3: Wednesday, 1 June 2016

08:00	Registration <i>Location: Outside Auditorium 2</i>
08:50	Keynote lectures <i>Location: Auditorium 2</i> Moderator: Prof. WONG Nyuk Hien – Co-chairman of IC2UHI 2016, National University of Singapore, Singapore
09:00	Keynote lecture 12 Mr. LIM Liang Jim – Director, Professional Development & Services Cluster Industry Centre For Urban Greenery And Ecology (CUGE) Division, National Parks Board, Singapore Title: Advancing the Science of Greening – Interventions for an Uncertain World
09:30	Keynote lecture 13 Dr. Paul OSMOND - Director of Discipline - Built Environment (Sustainable Development), University of New South Wales, Australia Title: The CRC for low carbon living and recent UHI research in Australia
10:00	Keynote lecture 14 Dr. Afroditi SYNNEFA – Technical Committee, European Cool Roofs Council; Research Associate, National and Kapodistrian University of Athens, Greece Title: Advances in the rating of cool roof products in Europe
10:30	Coffee break <i>Location: Outside Auditorium 2</i>

<p>11:00</p>	<p>Track 7.1 <i>Location: Auditorium</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Miao Haiyan</p> <ol style="list-style-type: none"> 1. Pekka Roytta*, V. B. L. Boppana, V. S. G. Raghavan, M. Ramalingam, H. J. Poh. A software tool and a database for semi-realistic anthropogenic heat fluxes from residential buildings in Singapore. Institute of High Performance Computing, Singapore. [SUB05_FP-0035] 2. Michael Wagner*, Vaisagh Viswanathan. Analysing the impact of driving behaviour at traffic lights on urban heat. TUM CREATE, Singapore. [SUB05_FP-0059] 3. Kwanho Lee*, Hochun Yoo, Geoffery Levermore. A method to estimate sky view factor and sunshine factor from urban geometry. Ulsan College, Korea, Republic of. [SUB05_FP-0015] 4. Binfang Wang*, Huizhe Liu, Viet Phuong Bui, Wee Shing Koh, Venkata B. L. Boppana, Venugopalan S. G. Raghavan, Yushi Liu, Hee Joo Poh, Sze Tiong Tan, Kelvin Wenhui Li. Solar irradiance simulation for evaluating thermal comfort in a large scale real urban environment. A*STAR, Institute of High Performance Computing, Singapore. [SUB05_FP-0014] 5. Giorgos-Evrystheas Kyriakodis, Elena Mastrapostoli, Mattheos Santamouris*. Experimental and numerical assessment of bioclimatic rehabilitation of a large urban area in Western Athens using reflective and photocatalytic materials. University of Athens, Greece. [SUB05_FP-0042] 	<p>Track 7.2 <i>Location: Lecture Theatre 50</i></p> <p>Topic: Building energy savings and air pollution from cool surface deployment (field experiments & new analysis methods)</p> <p>Moderator: Shinji Yoshida</p> <ol style="list-style-type: none"> 1. Plenary speaker: Hema Rallapalli, Niranjana Reddy, Prabhkara Rao, Vishal Garg*, Jayant Sathaye, Ronnen Levinson. Cool roof monitoring experiment in a real building in Nagpur, India. IIIT Hyderabad, India. [SUB09_FP-0013] 2. Anna Laura Pisello, Veronica Lucia Castaldo*, Cristina Piselli, Claudia Fabiani, Franco Cotana. Thermal performance of coupled cool roof and cool façade: results from a continuous monitoring campaign and sensitivity analysis. University of Perugia, Italy. [SUB09_FP-0002] 3. Yafeng Gao, Rui Guo*, Ronnen Levinson, Changqing Lin, Chaoqun Zhuang, Jing Ge, Jiangmin Xu. Life-cycle cost analyses of white roof and modular garden roof retrofits on office buildings in China. Chongqing University, China. [SUB09_FP-0006] 4. Padmaja Krishnan*, Min-Hong Zhang, Liya E. Yu. Photocatalytic building coatings for de-pollution and sustainability. National University of Singapore, Singapore. [SUB09_FP-0004] 5. Ran Zhang*, Cheng Sun, Meng Zhen. Morphology parameters quantitative research of multi-storey office building design in Harbin, China. Harbin Institute of Technology, China. [SUB09_FP-0003] 	<p>Track 7.3 <i>Location: Lecture Theatre 52</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Chun Liang Tan</p> <ol style="list-style-type: none"> 1. Plenary speaker: Eiko Kumakura*, Yui Miyakawa, Nobuyuki Sunaga, Hiroko Onodera, Tomomi Fukasawa. Relationships between the design of common garden paths and thermal environment in summer. Tokyo Metropolitan University, Japan. [SUB02_FP-0047] 2. Yasunobu Ashie*. Simulation software for evaluating thermal environment measures in cities with simple operation. National Institute for Land and Infrastructure management, Japan. [SUB02_FP-0069] 3. Bongchur Park, Kyushik Oh, DongWoo Lee*, Minhee Je. A study on the efficiency of green and cool roofs to mitigate the thermal environment of urban residential areas. Hanyang University, Korea, Republic of. [SUB02_FP-0060] 4. Afshin Afshari, Dina Masri*, Mouza Al Kaabi, Abeer Al Khatir. Green walls as an urban heat island mitigation strategy and their effect on the cooling loads of buildings. Masdar Institute of Science and Technology, United Arab Emirates. [SUB02_FP-0033] 5. Stamatis Zoras*, Sotiris Veranoudis, Argyro Dimoudi. Micro- climate adaptation in building energy consumption. Democritus University of Thrace, Greece. [SUB05_FP-0055] 	<p>Track 7.4 <i>Location: Lecture Theatre 53</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Afroditi Synnefa</p> <ol style="list-style-type: none"> 1. Plenary speaker: Liping Wang*, Xiaohong Liu. The impacts of urban heat island and climate change on energy consumption for a medium-size office building in the United States. University of Wyoming, United States. [SUB02_FP-0008] 2. Zheng Zheng*, Lixiong Wang, Nyuk Hien Wong. Intelligent control system integration and optimization for zero energy buildings to mitigate urban heat island. Tianjin University, China. [SUB02_FP-0031] 3. Fabrizio Ascione*, Nicola Bianco, Rosa Francesca De Masi, Filippo de Rossi, Giuseppe Vanoli. Net zero energy buildings in Mediterranean climate: a living-lab looking to the future. Università degli Studi di Napoli Federico, Italy. [SUB02_FP-0004] 4. Viswanath Sasank Bethapudi*, Vinay Natrajan. Measurements to determine role of building materials in contributing to urban heat island effect. Saint Gobain Research India Pvt Ltd, India. [SUB02_FP-0038] 5. Afshin Afshari, Mouza Al Kaabi*, Dina Masri. Double skin façade as an Urban Heat Island mitigation strategy – case study of a health care facility in Abu Dhabi. Masdar Institute of Science and Technology, United Arab Emirates. [SUB02_FP-0036]
<p>12:20</p>	<p>Networking lunch <i>Location: Outside Auditorium 2</i></p>			

<p>13:20</p>	<p>Track 8.1 <i>Location: Auditorium</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Marcel Ignatius</p> <ol style="list-style-type: none"> 1. Massimo Palme*, Claudio Carrasco, Andrea Lobato. Quantitative analysis of factors contributing to urban heat island effect in cities of Latin-American Pacific Coast. Catholic University of the North, Chile. [SUB05_FP-0001] 2. Yoichi Kawamoto*. Effect of urbanization on the urban heat island in the Fukuoka-Kitakyushu Metropolitan Area, Japan. Kyushu University, Japan. [SUB05_FP-0010] 3. Bernhard Klein*. Managing the scalability of visual exploration using game engines to analyse UHI scenarios. Singapore ETH-Centre, Singapore. [SUB05_FP-0036] 4. Yupeng Wang, Hashem Akbari*, Bo Chen. Urban geometry and environmental urban policy development. Chengdu University, China. [SUB05_FP-0062] 	<p>Track 8.2 <i>Location: Lecture Theatre 50</i></p> <p>Topic: Building energy savings and air pollution from cool surface deployment (field experiments & new analysis methods)</p> <p>Moderator: Hee Joo Poh</p> <ol style="list-style-type: none"> 1. Melvin Pomerantz. Ronnen Levinson*. Estimation of some limits of the benefits of urban heat island mitigation by cooler surfaces. Lawrence Berkeley National Laboratory, United States. [SUB09_FP-0008] 2. Wee Shing Koh*, Viet Phuong Bui, Huizhe Liu, Ying Ying Low, Tao Tang, Qiang Zhu, Kwok Wei Shah, Eiji Shidoji, Yew Meng Lim. Evaluation of building glass performance metrics for the tropical climate. A*STAR Institute of High Performance Computing, Singapore. [SUB09_FP-0010] 3. Yui Sasaki*, Kaoru Matsuo, Makoto Yokoyama, Masaru Sasaki, Takahiro Tanaka, Satoru Sadohara. Sea breeze effect mapping for mitigating summer urban warming -for making urban environmental climate maps of Yokohama and its surrounding area. Hiroshima University, Japan. [SUB09_FP-0011] 4. Jiawei Lei*, Karthikeyan Kumarasamy, Kishor T. Zingre, Jinglei Yang, Man Pun Wan, En-Hua Yang. Thermal behaviour and energy performance of cool coatings integrated with phase change materials for building applications. Nanyang Technological University, Singapore. [SUB09_FP-0014] 	<p>Track 8.3 <i>Location: Lecture Theatre 52</i></p> <p>Topic: Program development, policy and evaluation of UHI mitigation and adaptation</p> <p>Moderator: Kurt Shickman</p> <ol style="list-style-type: none"> 1. Yuki Hashimoto*, Tomohiko Ihara, Yukitaka Ohashi, Minako Nabeshima, Yoshinori Shigeta, Yoshihiro Kikegawa. Evaluation of façade greenings on summer electricity consumption considering solar radiation using a regression model. The University of Tokyo, Japan. [SUB07_FP-0009] 2. Elena Morini, Andrea Presciutti, Beatrice Castellani, Elisabetta Anderini, Mirko Filippini, Andrea Nicolini, Federico Rossi*. Experimental analysis of the effect of geometry and façades' materials on urban district's albedo. University of Perugia, Italy. [SUB10_FP-0005] 3. Ashan Asmone*, Sheila Conejos, Michael Chew, Ranjana Piyadasa. Urban green cover protocol to reduce urban heat island in Sri Lanka. National University of Singapore, Singapore. [SUB07_FP-0001] 4. Elizabeth Doran*. Priority intervention points to mitigate Urban Heat Island in the context of planning for the Durham-Orange light rail project. Duke University, United States. [SUB07_FP-0008] 	<p>Track 8.4 <i>Location: Lecture Theatre 53</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Naoki Takagi</p> <ol style="list-style-type: none"> 1. Rajashree Kotharkar*, Anurag Bagade. Local Climate Zone classification for Indian cities: a case study of Nagpur. Visvesvaraya National Institute of Technology, India. [SUB02_FP-0056] 2. Kaoru Matsuo*, Takahiro Tanaka. Making urban environmental climate maps to support urban planning in Hiroshima. Hiroshima University, Japan. [SUB02_FP-0026] 3. Yingsheng Zheng*, Chao Ren, Ran Wang, Justin Ho, Kevin Lau, Edward Ng. GIS-based mapping of Local Climate Zone in the high-density city of Hong Kong. The Chinese University of Hong Kong, Hong Kong. [SUB02_FP-0053] 4. Dongwoo Lee*, Kyushik Oh: Classifying Urban Climate Zones (UCZs) based on statistical analyses. Hanyang University, Korea, Republic of. [SUB02_FP-0061]
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<p>14:20</p>	<p>Track 9.1 <i>Location: Auditorium</i></p> <p>Topic: Simulation and analysis of UHI and its effects across scales (urban microclimate measurement, urban ventilation and modelling)</p> <p>Moderator: Denia Kolokotsa</p> <ol style="list-style-type: none"> 1. Chao Yuan*, Leslie Norford, Rex Britter, Edward Ng. A modelling-mapping approach for fine-scale natural ventilation evaluation in high density cities. Massachusetts Institute of Technology, United States and Singapore University of Technology and Design, Singapore. [SUB05_FP-0029] 2. Pekka Roytta*, V. B. L. Boppana, M. Ramalingam, H. J. Poh. Machine learning tool for a street canyon turbulent buoyant flow simulation. Institute of High Performance Computing, Singapore. [SUB05_FP-0034] 3. Mojtaba Pourbakhsh*, Takebayashi Hideki, Yamamoto Naoki. CFD ventilation environment for heat island mitigation. Kobe University, Japan. [SUB02_FP-0029] 4. Kamel Adouane*, Linda Bande, Afshin Afshari. Multilayer urban canyon model of a district composed of 15 buildings in downtown Abu Dhabi. Masdar Institute of Science and Technology, United Arab Emirates. [SUB02_FP-0037] 5. Maria Kolokotroni, Christopher Wines, Roaa Mohamed Abdien Babiker, Bruno Hartmann Da Silva. Cool and green roofs to reduce cooling energy demand in storage buildings: simulation study for distinct climates. Brunel University London, United Kingdom. [SUB09_FP-0001] 6. Tiangang Yin, Simone Kotthaus, Jean-Philippe Gastellu-Etchegorry, Leslie Norford, Sue Grimmond, Nicolas Lauret, William Morrison, Nektarios Chrysoulakis, Ahmad Al Bitar, Lucas Landier, Xian-Xiang Li. Combining high-resolution 3-D radiative transfer modelling with ground-based thermal imagery for sensor's atmospheric correction of urban environment. 	<p>Track 9.2 <i>Location: Lecture Theatre 50</i></p> <p>Topic: Relationship between UHI, urban planning and building energy consumption and comfort</p> <p>Moderator: Tong Shanshan</p> <ol style="list-style-type: none"> 1. Meng Zhen*, Cheng Sun, Qi Dong, Yongheng Jia. Investigation on energy consumption of rural residential buildings during heating season in severe cold areas in Northeast of China. Harbin Institute of Technology, China. [SUB02_FP-0003] 2. Zhiping Wei*, De Ming Liu. On design of low-operation-cost ice arenas with energy saving approaches. Harbin Institute of Technology, China. [SUB02_FP-0009] 3. Sugie Lee*, Jaehyun Ha, Hyemin Cho. Urban design measures and urban heat island effect in Seoul City, Korea. Hanyang University, Korea, Republic of. [SUB02_FP-0027] 4. Geoff Levermore, John Parkinson, Kwanho Lee*, Patrick Laycock, Sarah Lindley. The increasing trend of the urban heat island intensity. The University of Manchester, United Kingdom. [SUB02_FP-0012] 5. Ying Wang*, Xiaofeng Li, Yuelang Gan. Study on the green design strategies of "neo-vernacular architecture". Huazhong University of Science and Technology, China. [SUB09_FP-0009] 6. Dan Zhu*. Study on facade openings design method responding to urban ventilation issue in high density cities. Tongji University, China. [SUB02_FP-0046] 	<p>Track 9.3 <i>Location: Lecture Theatre 52</i></p> <p>Topic: Program development, policy and evaluation of UHI mitigation and adaptation</p> <p>Moderator: Vishal Garg</p> <ol style="list-style-type: none"> 1. Plenary speaker: Hee Joo Poh*, Wee Shing Koh, Enxiao Liu, Weijiang Zhao, Sze Tiong Tan, Kelvin Wenhui Li. Modelling of urban heat island and noise propagation in Singapore. A*STAR – Institute of High Performance Computing, Singapore. [SUB07_FP-0003] 2. Xian-Xiang Li*, Matei Georgescu, Leslie Norford. Comparison of different UHI mitigation strategies: the street- versus roof-level deployment. Singapore-MIT Alliance for Research and Technology, Singapore. [SUB07_FP-0007] 3. Martin Hendel*, Karina Azos Diaz, Brice Tréméac. Behavioral adaptation to heat-related health risks in cities. Université Paris Diderot, France. [SUB07_FP-0002] 4. Kuo-Tsang Huang, Ruey-Lung Hwang*, Yu-Teng Weng. How the building energy regulation criteria should be changed to cope with future climate in Taiwan. National Taiwan University, Taiwan. [SUB01_FP-0003] 5. Yishan Xu*, Dian Zhou, Zhe Li. Research on characteristic analysis of urban heat island in multi-scales and urban planning strategies. Xi'an Jiaotong University, China. [SUB02_FP-0067] 6. Niki Gaitani, Laia Cases Fabregas, Mattheos Santamouris*. Fostering nZEB design techniques in Mediterranean schools as a mitigation potential of climate change. NKUA, Greece. [SUB02_FP-0055] 	<p>Track 9.4 <i>Location: Lecture Theatre 53</i></p> <p>Topic: Special Topic: Recent UHI and climate change research from cities in Asia Pacific and tropical countries</p> <p>Moderator: Manju Mohan</p> <ol style="list-style-type: none"> 1. Chao Ren, Meng Cai*, Ran Wang, Yong Xu, Edward Ng. Local Climate Zone (LCZ) classification using the World Urban Database and Access Portal Tools (WUDAPT) method: a case study in Wuhan and Hangzhou. The Chinese University of Hong Kong, Hong Kong. [SUB01_FP-0012] 2. Gideon Serem*, Naoki Takagi. Analysis of the influence of urban block components to the thermal environment in a built-up area in Nagano City. Shinshu University, Japan. [SUB01_FP-0007] 3. Aparna Dwivedi*, Mohan V. Khire, B. K. Mohan. Urban heat island and Mumbai. IIT-B, India. [SUB07_FP-0005] 4. Elen Vianna, Marta Romero*. The process of formation of heat islands: a parallel among Brasilia and Singapore. Universidade de Brasília, Brazil. [SUB01_FP-0010] 5. Toshiaki Ichinose*, Victoria Likhvar, Futoshi Matsumoto. A development of mobile monitoring system for urban climatology. Nagoya University, Japan. [SUB07_FP-0006] 6. Nyuk Hien Wong, Erna Tan, Osrithalita Gabriela*, Steve Kardinal Jusuf. Indoor thermal comfort assessment of industrial buildings in Singapore. National University of Singapore, Singapore. [SUB02_FP-0059]
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	Singapore-MIT Alliance for Research and Technology (SMART), Singapore. [SUB05_FP-0047]			
15:55	Tea break <i>Location: Outside Auditorium 2</i>			
16:25	Closing ceremony <i>Location: Auditorium 2</i> Moderator: Prof. Hashem AKBARI – Chairman of IC2UHI 2016, Concordia University, Canada Summary of conference <ol style="list-style-type: none"> 1. Asst. Prof. Steve Kardinal JUSUF – Singapore Institute of Technology, Singapore 2. Asst. Prof. Anna Laura PISELLO – University of Perugia, Italy Presentation of awards <ol style="list-style-type: none"> 1. Young researcher best research award (2 awards) 2. Best applied Urban Heat Island research award (1 award) 3. Best paper award (2 awards) 4. Outstanding Urban Heat Island group of researchers award (1 award) Closing <ol style="list-style-type: none"> 1. Prof. WONG Nyuk Hien – Co-chairman of IC2UHI 2016, National University of Singapore, Singapore 2. Prof. Mattheos SANTAMOURIS – Co-chairman of IC2UHI 2016, Professor of Energy Physics, University of Athens, Greece; Professor of High Performance Architecture, University of New South Wales, Australia 			
18:00	End of Day 3			