

6th Japanese-German Meeting on Urban Climatology
"Climate Analysis for Urban Planning"

Program

Sep. 21 (Fri)		
Welcome Party (19:00-20:30) Place: ANA Crowne Plaza Hiroshima (Room Camellia: 4th Floor) http://www.anacrowneplaza-hiroshima.jp/language/english/access.html		
Sep. 22 (Sat)		
Meeting (8:45-18:00) Place: Deneb Hall in Miyakenomori Nexus21, Hiroshima Institute of Technology http://www.it-hiroshima.ac.jp/english/hit/		
8:45	Opening Remarks: Nobuyoshi Kiyota (Hiroshima Institute of Technology)	
9:00	Plenary Lecture: Uncertainties in Urban Climate Studies Hiroyuki Kusaka (University of Tsukuba)	
9:30-10:45	Session 1 Chair: Jürgen Baumüller (University of Stuttgart)	
<i>No.</i>	<i>Title</i>	<i>Authors</i>
1	The cooling effect of land and sea breezes in the Osaka region –Influence of heat advection by sea breeze on surrounding area-	Junichi Yashiro (Osaka Prefecture University) Ryusuke Yasuda Atsumasa Yoshida
2	Numerical simulation study of estimating urbanization effects on the climate in Wuhan, China	Takeki Izumi (Tokyo Metropolitan University) Tomohiko Inamura
3	CFD analysis on thermal environmental characteristics in city block due to varying some parameters	Yosuke Takahashi (Osaka University) Akira Kondo Yoshio Inoue
4	Development of a large eddy simulation model for urban areas	Ryosaku Ikeda (University of Tsukuba) Hiroyuki Kusaka Satoru Iizuka Taisuke Boku
5	The climatic factors that affect UHI intensities in the tropics: A case study of Johor Bahru, Malaysia	Tetsu Kubota (Hiroshima University) Han Soo Lee Dilshan Remaz Ossen Takahiro Tanaka Kaoru Matsuo
10:45-11:15	Coffee	
11:15-12:15	Session 2 Chair: Hideki Takebayashi (Kobe University)	
<i>No.</i>	<i>Title</i>	<i>Authors</i>
6	Effect of solar radiation on thermal sensation in outdoor based on human thermal load	Takeshi Morita (Osaka Prefecture University) Yasuhiro Shimazaki Atsumasa Yoshida Shinichi Kinoshita
7	Factors influencing human thermal comfort in urban environment	Anja Goldbach (University of Duisburg-Essen) Wilhelm Kuttler
8	Sources of isoprene and its influence on ozone formation in an urban environment	Patrick Wagner (University of Duisburg-Essen) Wilhelm Kuttler
9	Influence of vertical surfaces on thermal environment based on measurements of 3D radiant heat transports	Saori Yumino (Tohoku University) Kiyoshi Sasaki Junghyun Hong Akashi Mochida
12:15-13:15	Lunch (Place: 10th floor in Miyakenomori Nexus21)	

13:15-14:00	Poster Session (Place: 10th floor in Miyakenomori Nexus21)	
14:15-15:30	Session 3 Chair: Atsumasa Yoshida (Osaka Prefecture University)	
No.	Title	Authors
10	On the urban heat island (UHI) of Basel – 20 years of measurements	Eberhard Parlow (University of Basel) R. Vogt
11	Cooling effect for the nocturnal urban atmosphere provided by the reduced heat capacity of exterior finishes on buildings and pavements	Hideki Shibaike (Kyoto Institute of Technology)
12	CO2 measurements with an open path-integrated system in an urban environment	Christian Büns (University of Duisburg-Essen)
13	Doppler lidar observations of wind fields over the Tokyo metropolitan area	Yoichi Kawamoto (Kyushu University)
14	Relation between sea breeze and air temperature in a coastal urban around the Seto Inland Sea	Hiroshi Miyazaki (Kansai University)
15:30-16:30	Tea Ceremony	
16:30-18:00	Session 4 Chair: Toshiaki Ichinose (National Institute for Environmental Studies)	
No.	Title	Authors
15	Survey of urban heat island in the central area of Osaka	Kosuke Kittaka (Kansai University) Hiroshi Miyazaki Hiroki Takao
16	Observational report on local cold air drainage in Katano City	Taichi Morimoto (Osaka City University) Minako Nabeshima Masatoshi Nishioka Masaki Nakao
17	Results from the urban climate analysis of Zurich/Switzerland	Eberhard Parlow (University of Basel) D. Scherer U. Fehrenbach
18	Urban climatic map for planning in Hong Kong	Chao Ren (Chinese University of Hong Kong) Edward Ng
19	Applying wind information into the urban planning: An experience from Hong Kong	Chao Ren (Chinese University of Hong Kong) Edward Ng Lutz Katzschner
20	The planning of “Stuttgart 21” on the background of climate change	Jürgen Baumüller (University of Stuttgart)
Banquet (18:30-20:30) Place: 10th floor in Miyakenomori Nexus21, Hiroshima Institute of Technology http://www.it-hiroshima.ac.jp/english/hit/		
Sep. 23 (Sun)		
Meeting (9:00-17:00) Place: Deneb Hall in Miyakenomori Nexus21, Hiroshima Institute of Technology http://www.it-hiroshima.ac.jp/english/hit/		
9:00-10:15	Session 5 Chair: Eberhard Parlow (University of Basel)	
No.	Title	Authors
21	Effects of different vegetation on temperature in an urban building environment. Micro-scale numerical experiments.	Günter Gross (Universität Hannover)
22	Investigation of meteorological and physiological factors affecting thermal sensation in hot outdoor environment	Kiyoshi Sasaki (Shimizu Corporation) Saori Yumino Akashi Mochida
23	Outdoor experiment on difference of skin temperature brought by color of cloth	Toshiaki Ichinose (National Institute for Environmental Studies)
24	An attempt to define a typical case by prediction of annual outdoor thermal comfort	Jia Ma (Tsinghua University) Xiaofeng Li Yingxin Zhu

25	Assessment of urban heat stress mitigation measures	Nicole Müller (University of Duisburg-Essen) Wilhelm Kuttler
10:15-10:45	Coffee	
10:45-12:00	Session 6 Chair: Wilhelm Kuttler (University of Duisburg-Essen)	
No.	Title	Authors
26	Numerical study on air purification effects of plants as revealed by modified WRF/Chem	Takanori Watanabe (Tokyo Metropolitan University) Takeki Izumi Hiroshi Matsuyama
27	Assessment of UHI effects due to land-use changes proposed in the Hanoi master plan	Tran Thi Thu Phuong (Hiroshima University) Han Soo Lee Tetsu Kubota Takahiro Tanaka Kaoru Matsuo
28	Analysis of the relationships between the properties of an urban street canyon and its radiant environment from the viewpoint of the introduction of appropriate urban heat island mitigation technologies	Hideki Takebayashi (Kobe University) Masakazu Moriyama
29	Development of the evaluation for building-blocks environment in Nagoya	Yukiko Yoshida (Nagoya University) Hiroyuki Shimizu Akito Murayama
30	Climatic sensitive urban planning and design to improve natural ventilation in high density cities --- A CFD parametric study at Hong Kong	Chao Yuan (Chinese University of Hong Kong) Edward Ng
12:00-13:30	Lunch (Place: 10th floor in Miyakenomori Nexus21)	
13:30-15:00	Session 7 Chair: Hiroshi Miyazaki (Kansai University)	
No.	Title	Authors
31	Modeling of the meteorological parameters and thermal comfort conditions inside the urban boundary layer during Moscow's 2010 summer heat wave.	Konstantinov P.I. (Lomonossov Moscow State University) Varentsov M.I. Malinina E.P.
32	Hyperspectral data for urban climate studies – the APEX flight campaign in Basel/Switzerland	Eberhard Parlow (University of Basel) C. Feigenwinter
33	Potential of electricity production by PV in Osaka City and its thermal characteristics	Yuji Murashita (Osaka University) Akira Kondo Yoshio Inoue
34	Daily movement of heat island in Kanto area	Tsuyoshi Honjo (Chiba University)
35	Impacts of shading effect from nearby buildings on heating and cooling energy consumption in hot summer and cold winter zone of China	Lei Lei (National Institute for Environmental Studies) Toshiaki Ichinose Ye Lin
36	Summer heavy rainfall characteristics in Seoul Metropolitan Area	Ri Jin (Sungkyunkwan University) Hua Cui Jinhang Yu Haiyan Zheng Kyoo-seock Lee
15:00-15:30	Coffee	
15:30-16:50	Session 8 (Special Session) Chair: Nobuyoshi Kiyota (Hiroshima Institute of Technology)	
No.	Title	Authors
37	Urban green surfaces – does this really solve the urban climate problems?	Eberhard Parlow (University of Basel)
38	German cities and regions on the way to climate change adaptation strategies	Jürgen Baumüller (University of Stuttgart)

39	Impact of global climate change on urban air constituents	Wilhelm Kuttler (University of Duisburg-Essen)
40	Urban planning considering the countermeasures of urban heat island	Masakazu Moriyama (Setsunan University)
16:50-17:00	Closing Remarks: Masakazu Moriyama (Setsunan University)	
Sep. 24 (Mon)		
Excursion (10:00-20:00)		
1) Starting Place: ANA Crowne Plaza Hiroshima		
2) Atomic Bomb Dome		
3) Miyajima (World Heritage) http://visit-miyajima-japan.com/flash/english/welcome.html		
4) Saijo (Sake Town)		

Poster Session (13:15-14:00, Sep. 22)		
<i>No.</i>	<i>Title</i>	<i>Authors</i>
P1	Regional climate atlas as a basic for vulnerability studies in the Metropolitan Region Stuttgart	Jürgen Baumüller (University of Stuttgart) Stefan Siedentop Manuel Weis Lucas Joachim Minnich
P2	Global climate change and its impact on developing country (Armenia)	Ani Melkonyan (University of Duisburg-Essen) Wilhelm Kuttler
P3	Field Demonstration on Thermal Environment Improvement using Water Retentive Materials	Hirotooshi Yoda (Kinki University)
P4	Evaluation of thermal environment impacts using air conditioning energy loads in Kumamoto City urban districts	Takahito Ueno (Sojo University) Yukiko Soraoka Shota Morishita
P5	An attempt to estimate a cooling potential of sea breeze from the point of view of the urban heat island mitigation	Yuichiro Oku (Osaka City Institute of Public Health and Environmental Sciences) Keiko Masumoto
P6	Study on the urban climate influenced by sea breeze using WRF model and upper weather data over the city	Takashi Kishimoto (Kobe University) Takebayashi Hideki Moriyama Masakazu
P7	GIS-incorporated database of urban surface parameters for high-resolution	Konstantinov P.I. (Lomonossov Moscow State University) Kukanova E.A. Samsonov T.E.
P8	Analysis on summer temperature distribution in the basin city - For making an urban environmental climate map of Hadano City, Kanagawa -	Shohei Noguchi (Hiroshima University) Takahiro Tanaka Satoru Sadohara
P9	A study on the outdoor temperature distribution in high-denced urban area in summer: For improving thermal environment in summer	Kentaro Hayashi (Hiroshima University) Takahiro Tanaka Shusuke Inachi
P10	Making Urban Environmental Climate Maps (UECM) in Shanghai	Kaoru Matsuo (Hiroshima University) Takahiro Tanaka Wenjun Ma Jihong Huang
P11	Actual conditions of thermal environment in inland city, Gifu	Yoshiki Junimura (Gifu University)
P12	Analysis of climate change with urbanization comparing with potential natural vegetation using meso-scale meteorological model	Yukiko Inui (Kobe University) Hideki Takebayashi Masakazu Moriyama
P13	Fundamental climate research for Climate-Atlas in Toyama City	Hironori Watanabe (Tohoku Institute of Technology)