







International Conference

UTCI - ASSESSMENT MEASURE IN HUMAN BIOCLIMATOLOGY - 10 YEARS OF APPLICATION and

1ST EUROPEAN BIOMETEOROLOGISTS' REGIONAL MEETING

Warsaw, 22-24 May 2019

PROGRAMME



Institute of Geography and Spatial Organisation Polish Academy of Sciences

Organisers:

- Institute of Geography and Spatial Organization, Polish Academy of Sciences,
- International Society of Biometeorology,
- University of Warsaw, Faculty of Geography and Regional Studies,
- Institute of Meteorology and Water Management National Research Institute

The Conference and the Meeting are sponsored by:

Solco W. Tromp Foundation

BIO

Laboratory of Bioclimatology and Environmental Ergonomics

Accompanying events:

1st Forum of Polish Bioclimatologists, 22 May 2019, 17:00-18:30

Warsaw walking tour, 22 May 2019, 17:30-20:00

Conference Venue

The Conference and the Meeting will be held at the Institute of Meteorology and Water Management – National Research Institute (IMGW-PIB).



IMGW-PIB is located in the north-west part of Warsaw, 7 km from the city centre and 12 km from Warsaw Chopin Airport.

Institute of Meteorology and Water Management-National Research Institute (IMGW-PIB) 61 Podleśna street 01-673 Warsaw Poland http://www.imgw.pl/

UTCI - assessment measure in human bioclimatology – 10 years of application			
Wednesday,	22 May		
8:30-9:30	Registration (open during the whole conference)		
09:30-10:00	Opening ceremony Chair: <i>Krzysztof Błażejczyk</i>		
10:00-11:30	Session 1: Principles of UTCI Chair: Yoram Epstein		
10:00-10:30	Introductory speech, George Havenith, Peter Bröde	oral	
10:30-10:50	UTCI application – basics, caveats, new developments, Peter Bröde	oral	
10:50-11:10	A new paradigm to quantify the reduction of physical work capacity in the heat, <i>Josh Foster, George Havenith</i>	oral	
11:10-11:15	Physiological and perceptual responses to a self-paced work simulation as a function of UTCI, Josh Foster, George Havenith	poste	
11:15-11:20	Comparison of estimated values of clothing insulation with the UTCI clothing model, <i>Jin Ishii</i>	poste	
11:20-11:25	Biometeorological forecast chain to develop thermal comfort/discomfort maps for Italy according to the UTCI, <i>Alessandro Messeri</i> , <i>M.Morabito</i> , <i>R.Vallorani</i>	poste	
11:25-11:30	UTCI field measurements in an urban park in Florence (Italy), Martina Petralli, G. Brandani, L. Massetti, D.Pearlmutter, A. Messeri, M. Morabito, S. Orlandini	poste	
11:30-11:50	Coffee break		
11:50-13:20	Session 2: UTCI and health Chair: <i>Jennifer Vanos</i>		
11:50-12:10	Operational UTCI forecasting for heatwave-related health hazards, Claudia Di Napoli, H.Cloke, F.Wetterhall, Ch.Prudhomme, F.Pappenberger	oral	
12:10-12:30	The predictability of heat-related mortality in Prague, Czech Republic during summer 2015 – A comparison of selected thermal indices, Aleš Urban , D.M.Hondula, H.Hanzlíková, J.Kyselý	oral	
12:30-12:50	Influence of thermal environment determined according to UTCI on mortality in Polish cities, <i>Magdalena Kuchcik</i>	oral	
12:50-13:10	Influenza related hospital admissions and atmospheric circulation in Spain: an statistical approach for the period 2003-13, Pablo Fdez-Arroyabe , <i>A.Martí-Ezpeleta, D.Roye, A.Santurtun</i>	oral	
13:10-13:15	UTCI and the health measures for adaptation to climate change: Bulgarian experience, Zoya Mateeva	poste	
13:15-14:20	Lunch break		
14:20-16:00	Session 3: UTCI and urban climate Chair: <i>Claudia Di Napoli</i>		
14:20-14:40	Motivations to use water for thermal comfort: the influence of evaporative mister systems on thermal comfort in outdoor eateries, <i>Jennifer Vanos</i> , D.Hondula, A.Middel, H.Ambrose, A.Kaiser, M.Wright	oral	

14:40-15:00 environmental perception on outdoor thermal comfort, weink Ka-Lun Lau, Sum Ching Chung oral 15:00-15:20 Interdependency of estimated (objective) and perceived (subjective) comfort using the UTCI model in tropics: the case of Singapore, A.Chokhachian, Daniele Santucci, K.Lau, S.Schiovon, T.Auer oral 15:20-15:40 Comparing confort ranges of UTCI for two tropical cities in Brazil, Eduardo Krüger, T.J.Vieiro Silveira Hirsahima, E.Grala da Cunha, L.Akahatara oral 15:40-15:45 UTCI as an output of NWP model ALADIN (CHMI), Mortin Novák, R.Bražková poster 15:40-15:45 UTCI as an output of NWP model ALADIN (CHMI), Mortin Novák, R.Bražková poster 15:40-15:55 Bioclimatic conditions in the Western Sudetes with a special consideration of UTCI Index, Marteusz Dobek, A.Krzyżewska, S.Wereski poster 16:00-16:30 Coffee break poster 16:30-17:00 At the posters discussions poster 17:00-18:30 IForum of Polish Bioclimatic assessments Chair: Pablo Fdez-Arroyabe oral 9:30-11:10 Session 4: UTCI and bioclimatic assessments Chair: Pablo Fdez-Arroyabe oral 9:30-11:10 Weather influence on zoo visitation in Cabárceno (Northern Spain), Domingo F.Assilla Alware, S.Crespo Barquin oral 09:50-10:10 Weather influence on zoo visitation in Cabárceno (Northern Spain), Domingo F.Assilla Alware, S.Crespo Barquin oral 10:10-10:30 UTCI variability during summer seasons in Poland i		Detter design of extelsion and an high device. The influence of			
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12:15-12:20	Differentiation of the diurnal and seasonal course of heat load in air masses typical for Central Europe, <i>Monika Okoniewska</i>	poster
12:20-12:25	Intensity of heat load during selected weather events in 2015-2018 period in particular regions of the south-west Poland, <i>Bartiomiej Miszuk</i>	poster
12:25-12:30	Comparison of PET and UTCI values for three months of year 2018 in Zagreb and Split, <i>Lidija Cvitan</i> , K.Zaninović	poster
12:30-13:00	At the posters discussions	
13:00-14:00	Lunch break	
14:00-15:10	Session 6: UTCI - Miscellanies Chair: Fabio L. T. Gonçalves	
14:00-14:20	UTCI and climate change adaptation plans in Portugal, João Vasconcelos, E.Correia, M.Fragoso, A.Lopes	oral
14:20-14:40	Influence of urban growth of the city Vienna on the thermal comport of its habitants, <i>Philipp Weihs,</i> H.Trimmel, H.Formayer, Ch.Gützer, I.Nadeem, S.Oswald, S.Faroux, A.Lemonsu, V.Masson, R.Michaelm, H.Kristofer	oral
14:40-14:45	UTCI forecasts in weather service of the Institute of Meteorology and Water Management - National Research Institute (IMGW-PIB) in Poland, Joanna Wieczorek	poster
14:45-14:50	Information of IMGW-PIB on the healthy use of solar UV radiation, Aleksander Curyło, Bogumił Kois, J. Biszczuk-Jakubowska	poster
14:50-14:55	Thermal evaluation of open-air art space by UTCI, Kazuo Nagano	poster
14:55-15:00	Variability of bioclimatic conditions in Szczecin in the context of thermal seasons of the year, Agnieszka Mąkosza , J.Nidzgorska-Lencewicz	poster
15:00-15:05	Long-term variability of bioclimatic conditions in Warsaw agglomeration (Poland), <i>Katarzyna Rozbicka</i> , T.Rozbicki	poster
15:05-15:10	The temporal and spatial variability of Universal Thermal Climate Index (UTCI) in Toruń, Central Poland, Andrzej Araźny	poster
15:10-15:40	At the posters discussions	
15:40-16:00	Coffee break	
16:00-17:30	Round Table: Validation and improvements of UTCI Moderators: <i>George Havenith, Peter Bröde</i>	
19:00	Conference dinner	

1st European Biometeorologists Regional Meeting

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9:00-9:30	Registration	
9:30-09:45	Opening ceremony Chair: Krzysztof Błażejczyk	
9:45-10:50	Session 1 Chair: <i>Fabio L. T. Gonçalves</i>	
09:45-10:05	A Web-based support system for data-driven biometeorological research, Benjamin Arroquia-Cuadros , Á.Marqués-Mateu, L.Sebastiá, Pablo Fdez-Arroyabe	oral
10:05-10:25	Bioclimatic conditions of Lower Silesia Voivodeship in 1966-2017, Arkadiusz Głogowski, K.Bryś	oral
10:25-10:45	Bioclimatic conditions of Chornohora and Tatry Mts. (northern Carpathians) and air circulation, Oleh Skrynyk , K.Błażejczyk, J.Baranowski	oral
10:45-11:05	Evaluating urban vegetation scenarios to mitigate urban heat island and save building's energy in dense built-up areas in Mega city Cairo, <i>Amir Aboelata</i> , S. Sodoudi	oral
11:05-11:10	Measured and perceived effect of blue and green features at thermal comfort in urban squares, <i>Michal Lehnert</i> , <i>M.Jurek, V.Tokar, J.Geletič</i>	poster
11:10-11:30	Coffee break	
11:30-12:45	Session 2 Chairs: <i>Katarzyna Piotrowicz, Dorota Myszkowska</i>	
11:30-11:50	A European-scale assessment of the impact of climate change on labour productivity, <i>Simon N.Gosling</i> , <i>J.Zaherpour, D.Ibaretta</i>	oral
11:50-12:10	Influence of air circulation on thermal stress in Polish Carpathians, Agnieszka Halaś , K.Błażejczyk	oral
12:10-12:30	Medicinal properties of climate in Poland and the possibility of their use in treatment of selected diseases, <i>Jakub Szmyd</i>	oral
12:30-12:50	Weather suitability for outdoor tourism in two European regions, <i>Milica Pecelj</i> , K.Błażejczyk	oral
12:30-12:50 12:50-13:10		oral
	<i>Milica Pecelj</i> , <i>K.Błażejczyk</i> The influence of thermal stress on physical and tactical activities of football players - the lesson from Russia'2018 World Cup <i>Michał Zacharko</i> , <i>M.Konefał</i> , <i>P.Chmura</i> , <i>J.Baranowski</i> , <i>M.Andrzejewski</i> ,	
12:50-13:10	Milica Pecelj, K.Błażejczyk The influence of thermal stress on physical and tactical activities of football players - the lesson from Russia'2018 World Cup Michał Zacharko, M.Konefał, P.Chmura, J.Baranowski, M.Andrzejewski, M.Huzarski, K.Błażejczyk, J.Chmura Potential meteorotrophy of air masses in Warsaw,	oral

14:20-15:30	Session 3 Chair: <i>Eduardo Krüger</i>	
14:20-14:40	Spatio-temporal modelling of biometeorological indices in street level using PALM-4U, Jan Geletič , J.Resler, P.Krč, J.Řadová, K.Eben, D.Froehlich	oral
14:40-15:00	Diurnal change in psychological and physiological responses to consistent relative humidity of 60 % rh to 80% rh, <i>Naoshi Kakitsuba, Qimin Chen</i>	oral
15:00-15:20	Infra red skin temperatures compared to thermal comfort indices (UTCI, TE and ID <i>), Fabio L. T. Gonçalves, E.S.Santos</i>	oral
15:20-15:25	Season and Indoor Air Conditions in Housing, <i>Masatoshi Tanaka</i>	poster
15:25-15:30	Long-term microclimate studies of peatlands as potential refugia of climate change, Sandra Słowińska , K.Marcisz, M.Lamentowicz, M.Słowiński	poster
15:30-16:00	Coffee break and at the posters discussions	
16:00-17:15	Round Table: European network of biometeorological research Moderators: Pablo Fdez-Arroyabe, Simon Gosling	
17:15-17:30	Closing ceremony Chair: <i>Krzysztof Błażejczyk</i>	

Guidelines for the Authors

Oral presentations

There is 20 minutes for oral presentation (15-minute presentation + 5 minutes for discussion).

Posters

Posters' authors should be prepared to provide a short presentation of their posters (1–2 slides) during the corresponding session (max 5 minutes talk).

Suggested posters' size: B1 (70,7 x 100,0 cm), in a vertical arrangement.



We provide all the tools and materials necessary to put the poster on the board.