



International Conference

UTCI - ASSESSMENT MEASURE IN HUMAN BIOCLIMATOLOGY

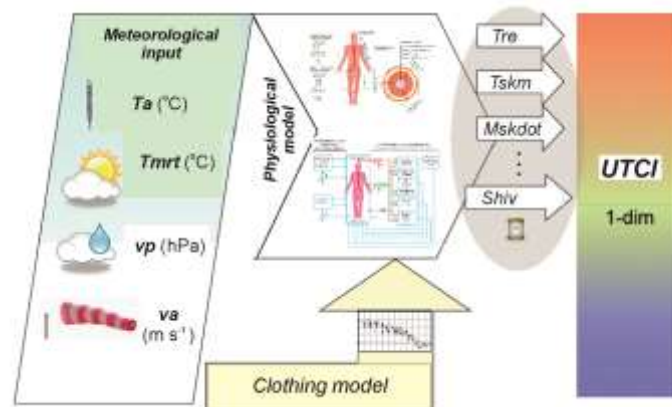
- 10 YEARS OF APPLICATION

and

1ST EUROPEAN BIOMETEOROLOGISTS' REGIONAL MEETING

Warsaw, 22-24 May 2019

PROGRAMME



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
klimatologia

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/>

International Conference		
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: Krzysztof Błażejczyk	
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, Josh Foster, George Havenith	oral
11:10-11:15	Physiological and perceptual responses to a self-paced work simulation as a function of UTCI, Josh Foster, George Havenith	poster
11:15-11:20	Comparison of estimated values of clothing insulation with the UTCI clothing model, Jin Ishii	poster
11:20-11:25	Biometeorological forecast chain to develop thermal comfort/discomfort maps for Italy according to the UTCI, Alessandro Messeri, M.Morabito, R.Vallorani	poster
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	poster
11:30-11:50	Coffee break	
11:50-13:20	Session 2: UTCI and health Chair: Jennifer Vanos	
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, Magdalena Kuchcik	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, A.Martí-Ezpeleta, D.Roye, A.Santurtun	oral
13:10-13:15	UTCI and the health measures for adaptation to climate change: Bulgarian experience, Zoya Mateeva	poster
13:15-14:20	Lunch break	
14:20-16:00	Session 3: UTCI and urban climate Chair: Claudia Di Napoli	
14:20-14:40	Motivations to use water for thermal comfort: the influence of evaporative mister systems on thermal comfort in outdoor eateries, Jennifer Vanos, D.Hondula, A.Middel, H.Ambrose, A.Kaiser, M.Wright	oral

14:40-15:00	Better design of outdoor spaces in high-density cities: The influence of environmental perception on outdoor thermal comfort, Kevin 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.Schiavon, T.Auer	oral
15:20-15:40	Comparing comfort ranges of UTCI for two tropical cities in Brazil, Eduardo Krüger, T.J.Vieira Silva, S.Q.da Silveira Hirashima, E.Grala da Cunha, L.Alcântara	oral
15:40-15:45	UTCI as an output of NWP model ALADIN (CHMI), Martin Novák, R.Brožková	poster
15:45-15:50	Variability of bioclimatic conditions in the Western Sudetes with a special consideration of UTCI index, Bartłomiej Miszuk	poster
15:50-15:55	Bioclimatic conditions of Lublin based on the UTCI Index, Mateusz Dobek, A.Krzyżewska, S.Wereski	poster
16:00-16:30	Coffee break	
16:30-17:00	At the posters discussions	
17:00-18:30	I Forum of Polish Bioclimatologists Moderators: Joanna Wieczorek, Magdalena Kuchcik	
17:30-20:00	Warsaw walking tour	
Thursday, 23 May		
9:30-11:10	Session 4: UTCI and bioclimatic assessments Chair: Pablo Fdez-Arroyabe	
09:30-09:50	Prediction of outdoor comfort enhancement in hot and dry climates using human-biometeorological UTCI charts with focus on wind and shading strategies, Wolfgang Kessling, M.Engelhardt	oral
09:50-10:10	Weather influence on zoo visitation in Cabárceno (Northern Spain), Domingo F.Rasilla Álvarez, S.Crespo Barquín	oral
10:10-10:30	UTCI variability during winter seasons in Poland in the 21st century, Sylwester Wereski, A.Krzyżewska, M.Dobek	oral
10:30-10:50	Adjusting monthly and daily datasets for UTCI calculations: example of Lithuania, Justas Kažys, D.Valiukas	oral
10:50-11:10	UTCI variability during summer seasons in Poland in the 21st century, Agnieszka Krzyżewska, S.Wereski, M.Dobek	oral
11:10-11:30	Coffee break	
11:30-12:30	Session 5: UTCI and weather extremes Chair: Philipp Weihs	
11:30-11:50	Current Croatian heath waves prevention measures in comparison with UTCI heat waves, Lidija Srnec, D.Plačko Vršnik, K.Mikec	oral
11:50-12:10	Occurrence of extreme heat stress in Poland and its circulation conditions, Arkadiusz M. Tomczyk, Małgorzata Owczarek	oral
12:10-12:15	Seasonal Variation of the UTCI index and Heat Waves in Mostar (Bosnia and Herzegovina), Milica Pecelj	poster

12:15-12:20	Differentiation of the diurnal and seasonal course of heat load in air masses typical for Central Europe, Monika Okoniewska	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, Bartłomiej Miszuk	poster
12:25-12:30	Comparison of PET and UTCI values for three months of year 2018 in Zagreb and Split, Lidija Cvitan, 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, Philipp Weihs, 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 Wiczorek	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), Katarzyna Rozbicka, T.Rozbicki	poster
15:05-15:10	The temporal and spatial variability of Universal Thermal Climate Index (UTCI) in Toruń, Central Poland, Andrzej Arażny	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: George Havenith, Peter Bröde	
19:00	Conference dinner	

1st European Biometeorologists Regional Meeting

Friday, 24 May

9:00-9:30	Registration	
9:30-09:45	Opening ceremony Chair: <i>Krzysztof Błażejczyk</i>	
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 , <i>Á.Marqués-Mateu, L.Sebastiá, Pablo Fdez-Arroyabe</i>	oral
10:05-10:25	Bioclimatic conditions of Lower Silesia Voivodeship in 1966-2017, Arkadiusz Głogowski , <i>K.Bryś</i>	oral
10:25-10:45	Bioclimatic conditions of Chornohora and Tatry Mts. (northern Carpathians) and air circulation, Oleh Skrynyk , <i>K.Błażejczyk, J.Baranowski</i>	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, Amir Aboelata , <i>S. Sodoudi</i>	oral
11:05-11:10	Measured and perceived effect of blue and green features at thermal comfort in urban squares, Michał Lehnert , <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, Simon N.Gosling , <i>J.Zaherpour, D.Ibaretta</i>	oral
11:50-12:10	Influence of air circulation on thermal stress in Polish Carpathians, Agnieszka Halaś , <i>K.Błażejczyk</i>	oral
12:10-12:30	Medicinal properties of climate in Poland and the possibility of their use in treatment of selected diseases, Jakub Szmyd	oral
12:30-12:50	Weather suitability for outdoor tourism in two European regions, Milica Pecelj , <i>K.Błażejczyk</i>	oral
12:50-13:10	The influence of thermal stress on physical and tactical activities of football players - the lesson from Russia'2018 World Cup Michał Zacharko , <i>M.Konefał, P.Chmura, J.Baranowski, M.Andrzejewski, M.Huzarski, K.Błażejczyk, J.Chmura</i>	oral
13:10-13:15	Potential meteorotrophy of air masses in Warsaw, Katarzyna Lindner-Cendrowska , <i>G.Kaliński</i>	poster
13:15-13:20	Weather-related subjective well-being in patients with coronary artery disease, Dalia Martinaitiene , <i>N.Raskauskiene, R.Bunevicius</i>	poster
13:20-14:20	Lunch break	

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

Guidelines for the Authors

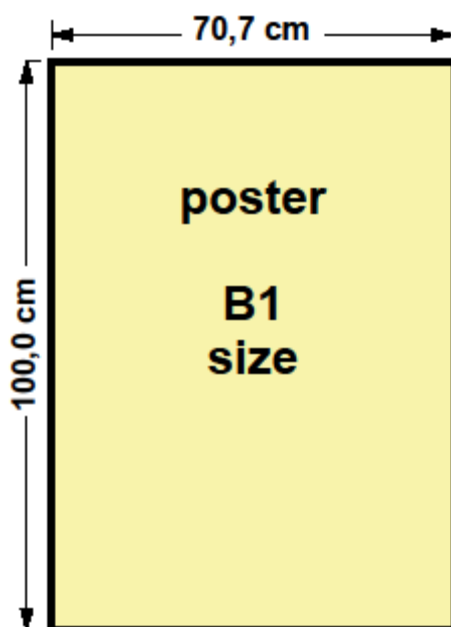
Oral presentations

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.