



Redefining Cities in View of Climatic Changes 2023

WARSAW UNIVERSITY OF TECHNOLOGY; Location: 4 Rektorska Street, Warsaw

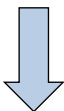
FIRST DAY OF THE CONFERENCE, DECEMBER 7, 2023

9:00	REGISTRATION OF PARTICIPANTS Reception desk on the ground floor (lobby)
10:00-10:30 OPENING SPEECH AND REMARKS	
Location: Auditorium, 1st floor	
10:00	REPRESENTATIVE OF UNIVERSITY AUTHORITIES prof. dr hab. inż. arch. JAN SŁYK, Warsaw University of Technology, Vice-Rector for Academic Affairs
10:10	REPRESENTATIVE OF THE FACULTY OF ARCHITECTURE dr hab. inż. arch. KRZYSZTOF KOZIEWSKI, profesor of WUT, Dean of the Faculty of Architecture
10:20	REPRESENTATIVE OF THE WARSAW BRANCH OF THE ASSOCIATION OF POLISH ARCHITECTS (SUSTAINABLE ARCHITECTURE CLUB) mgr inż. arch. MAGDALENA PIOS, Vice President for Climate Crisis Architecture
10:30-12:00 SESSION 1 THE CITY AND CLIMATE CHANGE	
Location: Auditorium, 1st floor	
moderator: KRYSZYNA SOLAREK, Prof. dr hab. inż. arch., Warsaw University of Technology	
10:30	KEES CHRISTIAANSE, Prof. em., ETH Zürich, Kees Christiaanse Architects & Planners Inversion and subtraction in urban design
10:45	ROBERT KNIPPSCHILD, Univ.- Prof. Dr.-Ing., Leibniz Institute of Ecological Urban and Regional Development & TU Dresden University of Technology Redefining cities in view of climatic changes: hopeless undertaking or exciting task for the future?
11:00	LUCYNA NYKA, Prof. dr hab. inż. arch., Gdańsk University of Technology Climate-resilient urban and landscape design – from inland water storage solutions to transition waterfront zones
11:15	STEFANO SALATA, Asst. Prof., Politecnico di Milano Green and blue infrastructure as a tool for climate change adaptation
11:30	REMARKS AND DISCUSSION
12:00	COFFEE BREAK Location: lobby
12:30-14:00 SESSION 2 ARCHITECTURE AND CLIMATE CHANGE	
Location: Auditorium, 1st floor	
moderator: LUCYNA NYKA, Prof. dr hab. inż. arch., Gdańsk University of Technology	
12:30	DAN PITERA, Prof., University of Detroit Mercy Shaping change: architecture, urbanism and social impact
12:45	ANNA JANUCHTA-SZOSTAK, Prof. dr hab. inż. arch., Poznan University of Technology Rewilding cities for resilience
13:00	EMANUELE NABONI, Prof., Royal Danish Academy Design with local climate change: digital strategies for adaptive solutions
13:15	ELŻBIETA RYŃSKA, Prof. dr hab. inż. arch., Warsaw University of Technology Taxonomy as part of the modern architect's workshop
13:30	REMARKS AND DISCUSSION
14:00	LUNCH BREAK Location: lobby
14:30-15:00 POSTER SESSION Location: lobby;	
During the poster session, authors stand by their posters to answer questions and discuss their research with attendees. Attendees are encouraged to move through the poster displays, interact with presenters, and engage in discussions.	
<ul style="list-style-type: none"> • OLGA KANIA, dr inż. arch., Cracow University of Technology Potential for forming energy-efficient housing complexes based on the DMD-M technology • JOANNA KOSZEWSKA, dr inż. arch., Sorbonne University Public spatial policies in response to climate change issues in Paris illustrated on chosen examples • ANNA LORENS, dr inż. arch., Warsaw University of Technology; STEFANO TORNIERI, PhD, Università Iuav di Venezia Integrating interventional and temporary solutions for adaptive architecture in the venetian lagoon landscape • ANNA MAJEWSKA, dr hab. inż. arch. / MAŁGORZATA DENIS, dr inż. arch. / DAMIAN DEREWOŃKO mgr inż., Warsaw University of Technology Recovering "vacant lots" as a tool for adapting cities to climate change • ANNA NOWAK, dr inż. arch., NATALIA MAŁOLEPSZA, stud., Warsaw University of Technology Application of biobased materials in architectural design • ALEKSANDRA PRZYWÓZKA, mgr inż. arch., Warsaw University of Technology Introducing the idea of a closed-loop economy in construction as a method of lowering the embedded carbon footprint • ROMAN TOMECKI, mgr inż. arch., MICHAŁ GOŁĘBIEWSKI, dr inż. arch., Warsaw University of Technology Revitalization of multi-family residential buildings in rural areas and small towns as a method to reduce environmental burden and suburbanization on the example of a building in Obory village • MARTA WALISIAK, mgr inż. arch., SolarPassive, SolarPassive 	



15:00-16:30 SESSION 3A <u>SPATIAL PLANNING AND URBAN DESIGN IN THE CONTEXT OF CLIMATE CHANGE</u> Location: Auditorium, 1st floor moderator: ROBERT KNIPPSCHILD , Univ.- Prof. Dr.-Ing., Leibniz Institute of Ecological Urban and Regional Development & TU Dresden University of Technology		15:00-16:30 SESSION 3B <u>THE INTERDISCIPLINARY PROCESS OF SUSTAINABLE BUILDING DESIGN</u> Location: Auditorium, 2nd floor moderator: EMANUELE NABONI , Royal Danish Academy	
15:00	MAŁGORZATA HANZL, dr hab. inż. arch., Łódź University of Technology Social-technological systems perspective versus climate-friendly transportation infrastructure. The case study of the tramway system in the region of Lodz, Poland	15:00	ANNA WIERZBICKA, dr hab. inż. arch., Warsaw University of Technology Sustainable solutions: New European Bauhaus and the use of wood in innovative approaches
15:15	KATARZYNA ZIELONKO-JUNG, dr hab. inż. arch., Gdańsk University of Technology Urban and architectural features crucial for adaptation to heat waves on the example of Warsaw	15:15	JOANNA JABŁONSKA, dr hab. inż. arch., Wrocław University of Science and Technology Noise in architecture and urban planning
15:30	ANNA BAZAN-KRZYWOSZANSKA, dr hab. inż., University of Zielona Góra Hybrid model in the management of urban spatial structure	15:30	MAGDALENA PIOS, mgr inż. arch., Ambient Architects Wooden public buildings in Poland - practical aspects
15:45	KINGA RACON-LEJA, dr hab. inż. arch., Cracow University of Technology Kraków in View of Climatic Changes - Green Neighborhoods, pilot project experience and feedback	15:45	MATEUSZ PŁOSZAJ-MAZUREK dr inż. arch., Warsaw University of Technology Artificial intelligence for reducing carbon footprint of buildings. A comprehensive approach using convolutional neural networks and large language models in architectural design optimization.
16:00	REMARKS AND DISCUSSION	16:00	REMARKS AND DISCUSSION
19:00	GALA DINNER 19:00		

SECOND DAY PROGRAM OF THE CONFERENCE ON THE NEXT PAGE





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WARSAW UNIVERSITY OF TECHNOLOGY

Location: 4 Rektorska Street, Warsaw

SECOND DAY OF THE CONFERENCE, DECEMBER 8, 2023

8:30	REGISTRATION OF PARTICIPANTS Reception desk on the ground floor (lobby)	
9:00-10:30 SESSION 1		
THE CITY AND CLIMATE CHANGE		
Location: Auditorium, 1st floor		
moderator: DAN PITERA, Prof., University of Detroit Mercy		
9:00	JONATHAN NATANIAN, Asst. Prof., Technion - Israel Institute of Technology Fast and meticulous: balancing speed and accuracy in eco-computational design	
9:15	NOAH RESNICK, Prof., University of Detroit Mercy Educating a just architect: climate justice in the design curriculum	
9:30	MANFRED KÖHLER, Prof., Neubrandenburg University of Applied Sciences Blue-green roofs - a new guideline in Germany	
9:45	PIOTR KUCZIA, Kuczia Architects Germany Solar chimneys - an underestimated renewable energy system	
10:00	REMARKS AND DISCUSSION	
10:30	COFFEE BREAK Location: lobby	
11:00-12:45 SESSION 2A		11:00-12:45 SESSION 2B
EDUCATION FOR SUSTAINABLE BUILT ENVIRONMENT		CLIMATE CHANGE ADAPTATION THROUGH GREEN AND BLUE INFRASTRUCTURE
Location: Auditorium, 1st floor		Location: Auditorium, 2nd floor
moderator: NOAH RESNICK, Prof., University of Detroit Mercy		moderator: MANFRED KÖHLER, Prof., Neubrandenburg University of Applied Sciences
11:00	ANNA BAĆ, dr hab. inż. arch., Wrocław University of Science and Technology Adaptive earthquake resistant design in Hatay - case study	ALEKSANDRA NOWYSZ, dr inż. arch., Warsaw University of Life Sciences (SGGW) Modernist projects of community-based urban farms in residential areas in regard to contemporary assessment of sustainable food systems
11:15	TOMASZ BRADECKI, dr hab. inż. arch., Silesian University of Technology Housing estate card game - experimental (non)/immersive tool in architectural and urban design education on housing density - lessons from application tests	KATARZYNA RĘDZIŃSKA, dr inż. arch., Warsaw University of Technology Urban Greening Plans as instruments of climate actions – a comparison of American and European approaches
11:30	PIOTR BUJAK, dr inż. arch., Warsaw University of Technology How to be understood? The language of communication in an interdisciplinary design team. A case study based on the Architecture and Urban Planning course at the Faculty of Civil Engineering, Warsaw University of Technology	MAGDALENA GROCHULSKA-SALAK, dr inż. arch., Warsaw University of Technology Resilience and self-sufficiency of sustainable city - critical infrastructure in the process of re-urbanisation
11:45	JUDYTA WESOŁOWSKA, mgr inż., JOANNA KLIMOWICZ, dr hab. inż. arch., Warsaw University of Technology Challenges of architectural and urban education for the city of the future from the perspective of climate change	KINGA ZINOWIEC-CIEPLIK, dr inż. arch., Warsaw University of Technology Warsaw heritage of urban gardening
12:00	JACEK KWIATKOWSKI, dr hab inż. arch. PAULINA FILAS-ZAJĄC, mgr inż. arch., Warsaw University of Technology Physiographic considerations in architectural design - selected projects by Svein Hatloy - a case study	JAROSŁAW PIESIK, mgr inż. arch., University of Zielona Góra Analysis of the possibility of increasing the retention area in the city by installing retention tanks on the roofs of existing buildings on the example of the "Niebuszewo" housing estate located in Szczecin.
12:15	REMARKS AND DISCUSSION	
12:45	COFFEE BREAK Location: lobby	



13:00 – 14:30 SESSION 3A REUSE, REVITALIZATION, RENOVATION, AND TRADITIONAL METHODS IN PRO-CLIMATE DESIGN Location: Auditorium, 1st floor moderator: ELŻBIETA RYŃSKA , Prof. dr hab. inż. arch. & ANNA NOWAK , dr inż. arch. Warsaw University of Technology		13:00 – 14:30 SESSION 3B INNOVATIONS IN PRO-CLIMATE DESIGN Location: Auditorium, 2nd floor moderator: MATEUSZ PŁOSZAJ-MAZUREK , dr inż. arch. & MICHAŁ PIERZCHALSKI , dr inż. arch. Warsaw University of Technology	
13:00	TOMASZ JELEŃSKI, dr arch., Cracow University of Technology Renovation and retrofitting of old buildings in times of climate crisis	13:00	KAJETAN SADOWSKI, dr inż. arch., Wrocław University of Science and Technology FoCa (Free of Carbon Architecture) - an interactive online platform providing information on the environmental properties of construction materials and products
13:15	MACIEJ CZARNECKI, dr inż. arch., Warsaw University of Technology Raw earth architecture as an alternative for cities today	13:15	NIMET PINAR OZGUNER GULHAN, PhD, University of Zielona Góra Potential of GIS in envisioning climate sensitive cities
13:30	PRZEMYSŁAW ŁACEK, mgr inż. arch. Warsaw University of Life Sciences (SGGW) Circular economy in architecture opportunities and threats	13:30	MAŁGORZATA KURCJUSZ-GZOWSKA, mgr inż. arch., Warsaw University of Life Sciences (SGGW) The use of artificial intelligence in light pollution analyses
13:45	MAJA SUTKOWSKA, inż. arch., Warsaw University of Technology Use of biomaterials in the fabrication of single-family house components	13:45	HUSSEIN ANNAN, mgr inż., Gdańsk University of Technology Empowering green and blue infrastructure networks with AI, GIS, and RS: a comprehensive review of current advancements and future directions
14:00	REMARKS AND DISCUSSION	14:00	REMARKS AND DISCUSSION
14:30	LUNCH BREAK	14:30	LUNCH BREAK
15:00 – 16:30 SESSION 4A PUBLIC SPACES AND INCLUSIVE BUILT ENVIRONMENT Location: Auditorium, 1st floor moderator: ANNA TOFILUK , dr inż. arch. & KINGA ZINOWIEC-CIEPLIK , dr inż. arch. kraj., Warsaw University of Technology		15:00 – 16:30 SESSION 4B GREEN AND BLUE INFRASTRUCTURE IN THE CITY Location: Auditorium, 2nd floor moderator: MAGDALENA GROCHULSKA-SALAK , dr inż. arch. Warsaw University of Technology	
15:00	ANGELIKA LASIEWICZ-SYCH, dr inż. arch., Cracow University of Technology "User space is alive": The environmental dimension of inclusive architecture in designing urban common spaces	15:00	ELIZA MACIEJEWSKA, dr inż. arch., Warsaw University of Technology Study of possibilities and threats for the construction of the port in Elbląg
15:15	AGNIESZKA CHUDZIŃSKA, dr inż. arch., Warsaw University of Technology Award-winning transformations: designing inclusive and climate-resilient urban spaces in response to the 2023 Polish Urban Space Competition	15:15	ANAHITA AZADGAR, PhD candidate Gdańsk University of Technology A comparative study on distributional justice of nature based solutions in form of public spaces in Gdansk and Rome
15:30	LESZEK WIŚNIEWSKI, mgr inż. arch., Warsaw University of Technology Perception of street space	15:30	EDYTA SKIBA, mgr inż. arch. Lodz University of Technology Potential of the finge-belts within circular city vision
15:45	KAROL LANGIE, mgr inż. arch., Warsaw University of Life Sciences (SGGW) A catalyst for participatory urban square design	15:45	MONIKA PIOTROWSKA, mgr inż. arch., Warsaw University of Technology Measuring social adaptive capacity for the purpose of climate adaptation plans: Starachowice case study
16:00	KATARZYNA MATYSZEWSKA-FUSZARA, mgr inż. arch., Białystok University of Technology Analysis of selected housing estates in Warsaw and Białystok cities in the context of the idea of 15-minute cities	16:00	RAFAŁ BLAZY, dr hab. inż. arch. ALICJA HREHOROWICZ-NOWAK, mgr inż. arch. Cracow University of Technology Post-industrial areas as strategic climatic areas in the revitalization process
16:15	KLAUDIA LISZEWSKA, mgr inż. Warsaw University of Life Sciences (SGGW) Certification systems in sustainable building	16:15	
16:30	REMARKS, DISCUSSION, CONFERENCE CLOSING	16:30	REMARKS, DISCUSSION, CONFERENCE CLOSING