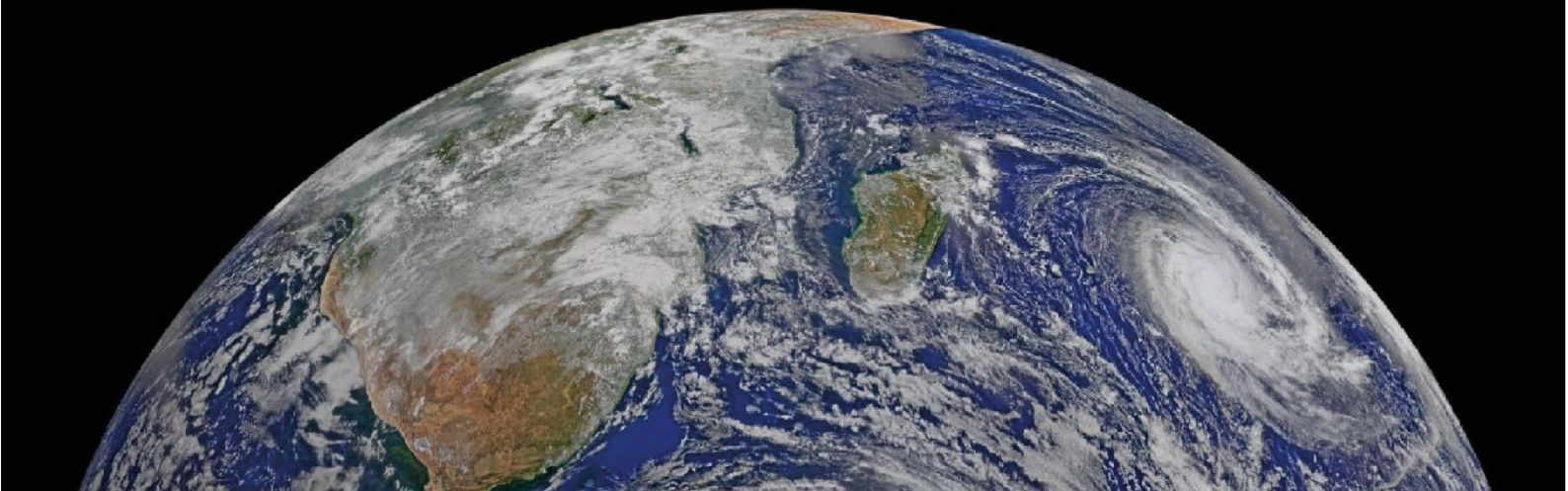




# PSN 2022 CONFERENCE CLIMATE CHANGE: SCIENCE & SOCIETY

*Conference Programme  
28 - 30 September 2022,  
University of Wrocław  
Wrocław, Poland*



Ministry  
of Education  
and Science



Association of the  
Foundation for Polish  
Science Scholars



Uniwersytet  
Wrocławski



<b>Wednesday 28th September 2022</b>		
10:00-11:00	Registration	University of Wroclaw, Main Building - corridor next to Aula Leopoldina
<b>Plenary Session Aula Leopoldina</b>		<b>Chair: Matt C. Strzelecki</b>
11:00-11:20	Welcome	Aula Leopoldina, University of Wroclaw, Main Building
11:20-11:50	Dariusz Jemielniak	<b>Keynote:</b> Climate change disbelievers online
11:50-12:20	Michał Bogdziewicz	<b>Keynote:</b> Silent extinction? Climate change and tree reproduction
12:20-12:40	Natalia Pilguy	<b>Keynote:</b> Reconstruction of Violent Tornado Environments in Europe
12:40-13:00	Group photo	
13:00-13:30	Walk to the Main Library – ul. Fryderyka Joliot-Curie 12 Registration at the library	
13:30-14:30	Lunch	Wroclaw University Library BUWr
<b>Session II: Extreme Events under Climate Change Conference Hall – Library</b>		<b>Chair: Bartosz Czernecki</b>
14:30-15:00	Francesco Battaglioli	<b>Keynote:</b> Severe Convective Storms in Europe: Past, Present and Future
15:00-15:15	Mateusz Taszarek	Challenges and limitations in assessing climate trends of severe convective storms
15:15-15:30	Tomasz Niedzielski	Towards observing and forecasting river stages at ungauged sites: the use of satellite Sentinel-3A data and unmanned aerial vehicles
15:30-15:45	Joanna Strużewska	Climate projections in Poland in 21 <sup>st</sup> century
15:45-16:00	Mikołaj Piniewski	Future droughts in Central Europe – what is the state of the art?
16:00-16:20	Coffee break	
<b>Session III: Climate Change Rising Seas, Melting Ice, Thawing grounds Conference Hall – Library</b>		<b>Chair: Jakub Małecki</b>
16:20-16:45	Marc Oliva	<b>Keynote:</b> Glacial oscillations in the Antarctic Peninsula region since the Last Glacial Maximum
16:45-17:10	Arthur Lutz	<b>Keynote:</b> Future climate change impacts for high mountain water resources and downstream consequences
17:10-17:25	Oskar Głowacki	Listening to glaciers: Can we measure ice loss with passive cryoacoustics?
17:25-17:40	Artur Lenczuk	Determining drought indices using geodetic data
17:40-18:00	Coffee break	
<b>Poster session</b>		
18:00-21:00	Poster Session with refreshments	
	BŁOTO – Climate Change Jazz Session	

**Thursday 29th September 2022**

09:00 – Morning coffee

**Workshop 1**

**Conference Hall - Library**

09:00-10:30	Chair: Joanna Komperda	How to involve stakeholders in the climate-related R&I projects? Heather McKhann & Joanna Suchomska & Lidia Sas Paszt & Krzysztof Mączka
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10:30-10:50	Coffee break	
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**Session IV: Climate Change on the Blue Planet  
Conference Hall – Library**

**Chair: Monika Kędra**

10:50-11:15	Jacqueline M. Grebmeier	<b>Keynote:</b> Ecosystem Dynamics in the Pacific Arctic: Key Drivers of Biological Change in the Context of Climate Warming
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11:15-11:45	Marc Silberberger	<b>Keynote:</b> Increasing importance of meroplankton to the functioning of high latitude marine ecosystems – future climate change scenario
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11:45-12:00	Anna Sowa	Changes in colonisation of hard-bottom assemblages in a high-Arctic fjord (Isfjorden, Svalbard)
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12:00-12:15	Bernabé Moreno	Benthic Blue Carbon in rapidly changing polar seas
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12:15-13:15	Lunch	
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**Session V: Climate Change threatens Biosphere and Societies  
Conference Hall – Library**

**Chair: Krzysztof Swierkosz**

13:15-13:30	Emilia Pers-Kamczyc	Global changes – does plant's sex matter?
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13:30-13:45	Łukasz Kurowski	Is knowledge a driver of pro-climate consumer behavior and purchase decisions?
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13:45-14:00	Filip Schmidt	'I'm not a typical flyer': normative narratives on justified and excessive use of international flights in a highly mobile society
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14:00-14:15	Dominika Bulska	Climate change and outgroup attitudes: why do we care?
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14:15-14:30	Aleksandra Świdarska	The Attitudes Towards Climate Migrants in Poland and Germany: A Mixed-Methods Study
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14:30-14:45	Coffee break	
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**Session VI: Climate of Polluted Earth  
Conference Hall – Library**

**Chair: Małgorzata Werner**

14:45-15:15	Massimo Vieno	<b>Keynote:</b> Changes of PM <sub>2.5</sub> concentration in the last two decades across the UK and Europe and the potential impact of a warmer climate
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15:15-15:30	Dorota Myszkowska	<b>Keynote:</b> Pollen allergy in the polluted environment
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15:30-15:45	Łukasz Grewling	Airborne pollen grains in a changing world
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15:45-16:00	Maciej Jefimow	Analysis of the impact of climate change on modelled pollens emissions
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16:00-16:15	Aleksander Norowski	Sources of air pollution in Poland based on modelling
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16:15-16:30	Coffee break	
<b>Session VII: Climate Changing Towns and Cultures</b> Conference Hall – Library		<b>Chair: Michał Czepkiewicz</b>
16:30-17:00	Milena Büchs	<b>Keynote:</b> Sustainable Welfare and wellbeing within planetary boundaries
17:00-17:15	Renata Putkowska	Adapting the city or adapting the citizens? Role of urban administrative structures in facing climate change
17:15-17:30	Robert Skrzypczyński	Remote rural areas in Europe—trends vs. future dreams of the youth in the context of climate change mitigation and adaptation
17:30-17:45	Franciszek Chwałczyk	Embodying climate change: the experiences of heat and adaptation measures of older adults in Warsaw
17:45-18:00	Cezary Brudka	Consumption-based carbon footprint of households – review of recent studies and research priorities
18:00-18:15	Coffee break	
<b>Workshop 2</b>		<b>Conference Hall - Library</b>
18:15-19:00	Chairs: Aleksandra Kardaś & Jakub Mątecki	Communicating climate changes Q&A session
<b>Poster session</b>		
19:00-20:00	Poster Session with refreshments	
20:00-23:00	Conference Banquet	
	Climate Change VJ session Karolina Jacewicz & Fryderyk Szulgit	

4

<b>Friday 30th September 2022</b>		
09:00 – Morning coffee		
<b>Workshop 3</b>		<b>Conference Hall - Library</b>
09:00-10:30	Chair: Izabela Sówka	Tackling Climate change challenges at the academia and institutions in Poland (in Polish)
10:30-10:45	Coffee break	
<b>Session X: Climate Change and Pandemic risks</b> Conference Hall - Library		<b>Chair: Anna Moniuszko</b>
10:45-11:00	Anna Moniuszko	Emerging and re-emerging diseases
11:00-11:25	Olaf Kahl	<b>Keynote:</b> How does climate change affect important vector tick species in Central Europe?
11:25-11:40	Zia Farooq	Artificial intelligence to predict West Nile virus outbreaks with eco-climatic drivers
11:40-11:55	Łukasz Adamkiewicz	Increase of health risks due to living in the vicinity of air pollution hot-spots
11:55-12:10	Krzysztof Simon	COVID-19 pandemics - what have we learnt?
12:10-13:00	Lunch	

<b>Session IX: The psychology of Climate Change: attitudes, emotions, and behaviors</b>		<b>Chair: Magdalena Budziszewska</b>
<b>Conference Hall - Library</b>		
13:00-13:15	Marzena Cypryńska-Nezlek	Climate Change-Related Distress and Climate Action
13:15-13:30	John Nezlek	Climate Change Distress Distinguishes People Who Experience Climate Related Symptoms of Psychological Disorder From Those Who Do Not, Whereas Generalized Anxiety Predicts How Often Such Symptoms Occur
13:30-13:45	Weronika Kałwak	Climate emotions and the impact of climatic changes on mental health in Europe – what we know and what we don't know
13:45-14:00	Adrian Wójcik	Greenwashed - the role of defensive and secure social identity in pro-environmental support
14:00-14:15	Joanna Grzymała-Moszczyńska	How social norms affect people's willingness to act for climate?
14:15-14:30	Jagoda Mytych	The climate for discussions. American climate scholars and society: dialogue or denial?
14:30-14:45	Coffee break	
<b>Session VIII: Climate Change transforming Agriculture, Energy and Technologies</b>		<b>Chair: Adam Choryński</b>
14:45-15:10	Ilona Otto	<b>Keynote:</b> Cascading climate change impact and rapid decarbonization pathways
15:10 –15:25	Eunika Zielony	Photovoltaics and solar cells: investigations and role in renewable energy sources
15:25-15:40	Michał Mierzwiak	Forecasts of solar conditions for the Central and Eastern Europe
15:40-15:55	Iwona Pińskwar	Variations of precipitation in the warming climate of Poland and its consequences for urban and rural areas
15:55-16:10	Dariusz Graczyk	Increased demand in the face of reduced production. Current and future problems of the Polish power sector during droughts and heat waves.
16:10-16:25	Piotr Matczak	The impact of the Europeans economic situation on the attitudes towards climate change
<b>16:25-17:00</b>	<b>Conference closing</b>	
	Maria Ojala	<b>Closing keynote lecture:</b> Hope in the face of climate change: Wishful thinking or a precondition for sustainability transformation?
	AMU PAS Leaders	Announcement of PSN2024

<b>Poster session</b>		
<b>Lp.</b>	<b>Corresponding author</b>	<b>Title</b>
1	<i>Iwo Wieczorek</i>	Relationships between small Arctic catchments and glacial lakes and coastal lagoons using the case study of Nepebreen and Knivseggbreen foreshore (NW Spitsbergen, Rekvedbukta)
2	<i>Justyna Dudek</i>	Multidecadal analysis of paraglacial landscape changes in foreland of Gåsbreen - Sørkapp Land, Svalbard
3	<i>Piotr Niedbała</i>	Ablation and outflow from Waldemarbreen in summer season, Kaffiøyra (Svalbard)
4	<i>Kamil Czarnecki</i>	The use of remote sensing methods and the capabilities of UAV in research of dynamics of changes in the coastline of Kaffiøyra (Svalbard)
5	<i>Krzysztof Senderak</i>	GLAVE - Paraglacial coasts transformed by tsunami waves – past, present and warmer future
6	<i>Meri Korhonen</i>	Long-term Oceanographic Monitoring in Hornsund (LONGHORN)
7	<i>Katarzyna Stachniak</i>	Hydrological conceptual model for Wrenskioldbreen catchment with special recognition of the glacier's foreland role
8	<i>Maciej Bartosiewicz</i>	TBA
9	<i>Jan Barabach</i>	TBA
10	<i>Mateusz Moskalik</i>	"RAW – Retreat And Wither" - What is the influence of glaciers recession from tidewater to land-based on the marine biological production and biogeochemistry in the Arctic?
11	<i>Katarzyna Niemier</i>	RIGHTEOUS 2040 a climate activists' tale about a just, equitable future.
12	<i>Mirostawa Ostrowska</i>	SatBałtyk System - reliable information on environmental changes in the Baltic Sea
13	<i>Marcin Wichorowski</i>	eCUDO.pl – oceanographic data and information system for long term data curation
14	<i>Marc Silberberger</i>	Climate Change impact on resource utilization of fjord benthic communities
15	<i>Aleksandra Kolanek</i>	The need to improve the forest fire forecasting system in Poland - a consequence of global climate changes
16	<i>Paulina Jagiello</i>	Air quality related health exposure in 2019 and mitigation potential due to the national "Clean air programme"
17	<i>Marcin Kawka</i>	Downscaling of the regional air quality model with a gaussian plume model and random forest
18	<i>Marcin Pawnuk</i>	Waste management as a source of odour compounds and greenhouse gas emissions - a case study of selected waste management plant
19	<i>Małgorzata Werner</i>	Climate change and the severity of allergenic pollen seasons – a case study for birch pollen in Europe
20	<i>Yaroslav Bezyk</i>	Seasonal Variations of CO <sub>2</sub> and CH <sub>4</sub> and Their Carbon Isotope Composition in the Urban Atmosphere
21	<i>Dorota Moroniak-Wawryszuk</i>	Implementation of The Driver-Pressure-State-Impact-Response (DPSIR) Framework in the field of air quality
22	<i>Jagoda Błotny</i>	Radiative Water Mattress - Conductive Cooling Solution as the dairy cattle's heat stress mitigation strategy for Global Milk Security
23	<i>Katarzyna Gwóźdź</i>	Solar cells based on oxide and silicon
24	<i>Jakub Jurasz</i>	Impact of projected climate change on the frequency of energy droughts in Europe
25	<i>Dominik Mazur</i>	Solar-powered and next generation refrigerants-based cooling system to boost air quality and shrink carbon emission in the city: COOLSPACES 4 LIFE
26	<i>Izabela Sówka</i>	Influence of meteorological conditions on the variability of indoor and outdoor PM concentration in a selected health resort
27	<i>Weronika Urbańska</i>	Waste management in the COVID-19 pandemic
28	<i>Mateusz Płóciennik</i>	Climate conditions as a driver of settlement in Ostrowite since Neolithic to Middle Ages

29	<i>Karolina Bonarska</i>	Eco-emotions and activists' well-being - a qualitative case study of climate activists movement in Poland
30	<i>John Nezek</i>	Vegetarians are more Distressed by Climate Change than Non-Vegetarians and They are more likely to Engage in Climate Change Mitigation Behaviour
31	<i>Dominika Zaremba</i>	Development and validation of the Emotional Climate Change Vignettes
32	<i>Maja Wróblewska</i>	Climate Catastrophe in the Light of Class Conflict: (Post)operaist Analysis of the Trade Union "Przeróbka" Activity for the Just Transformation in Poland
33	<i>Robert Skrzypczyński</i>	Remote rural areas in Europe—trends vs. future dreams of the youth in the context of climate change mitigation and adaptation