



INTERNATIONAL SOPOT YOUTH CONFERENCE Entitled: WHERE THE WORLD IS HEADING.

7 June 2024

Agenda

- 9:00** **Conference start**
- 9:00 – 9:05** **Welcome by *Jan Marcin Weslawski*, IO PAN Director
and *Tymon Zielinski*, IO PAN/Sopot Science Association Chair**
- 9:05 – 9:30** **Carbon Dioxide Removal (CDR) from the atmosphere: The solution to our
climate problem?**
*Sally Soria-Dengg, Ludwig Maximilian University Munich; GEOMAR Helmholtz
Centre for Ocean Research Kiel, Germany.*
- 9:30 – 10:45** **Session 1**
Session Chair: Paulina Pakszys, SSA/IOPAN
- 9:30 – 9:45** **Sofia Cerri et al., University of Milano-Bicocca, Italy**
Atmospheric heating rate at Ny-Ålesund: early estimates and sources apportionment
from an innovative method.
- 9:45 – 10:00** **Amandine Willems, Seatech, University of Toulon, France**
Impact of climate change on the world ocean circulation. Focus on the Baltic Sea.
- 10:00 – 10:15** **Dalila Peccarrisi et al., University of Salento, Lecce, Italy**
Relationships between aerosol absorption properties and EC, OC, and PM2.5
concentrations over different monitoring sites in south-eastern Italy.
- 10:15 – 10:30** **Alicja Adamus et al., Ateneum Academy in Gdansk, Poland**
Impact of Environmental Pollution on Waters and Oceans.
- 10:30 – 10:45** **Ludovica Giovanazzi, et al., University of Milano-Bicocca, Italy**
The error in determining the mass of atmospheric particulate matter at 50% relative
humidity.
- 10:45 – 10:50** **Break**



10:50 – 12:05 Session 2

Session Chair: Grazyna Niedoszytko, NMFRI-Gdynia Aquarium

10:50 – 11:05 Emilia Nawrocka, University of Gdansk, Poland
Same but different: How do we differ around the world?

11:05 – 11:20 Marta Gorska, University of Wroclaw, Poland
The Environmental Impact of K-pop Album Overconsumption.

11:20 – 11:35 Paulina Pianka, Magdalena Sikora, Akademia Ateneum w Gdansk, Poland
The Impact of Social Media on Interpersonal Relationships.

11:35 – 11:50 Mateusz Zalewski, Ateneum Academy in Gdansk, Poland
Humanity's need for conflict.

11:50 – 12:05 Marta Bubnowska, University of Gdansk, Poland
What Made Us Afraid of Zombie? Reimagining Zombies in Film, TV Series, and Video Games?

12:05 – 13:20 Session 3
Session Chair: Aleksandra Koroza, IO PAN

12:05 – 12:20 Jakub Stankiewicz et al., University of Gdansk, Poland
The significance of plants in funeral culture based on the results of archaeobotanical research of the equipment from 17th-18th century burials from crypt V of the Church of St. Francis of Assisi in Cracow.

12:20 – 12:35 Sara Kedzierska et al., University of Gdansk and Medical University of Gdansk, Poland
Importance of lipid metabolism in plant cold stress resilience: insights from PDAT enzyme studies.

12:35 – 12:50 Joanna Mancewicz et al., University of Gdansk and Medical University of Gdansk, Poland
Temperature stress condition - how LPCAT enzymes can help plant to adapt and survive?

12:50 – 13:05 Mattia Fragola et al., University of Salento, Lecce, Italy
Comparative Analysis of Airborne Bacterial and Fungal Diversity in South-Eastern Italy and Albania Using 16S and ITS rRNA Gene Sequencing.

13:05 – 13:20 Virginia Vernocchi et al., INFN-Genova, Italy
Atmospheric Simulation Chamber and bioaerosol: experiments on bacteria viability in different atmospheric conditions.

13:20 – 13:30 Break



13:30 – 14:15 Session 4

Session Chair: Dorota Majewicz, SSA/ Koszalin University of Technology/Bluebay Ltd, Poland

13:30 – 13:45 Natalia Gajewska-Zagrodna, Anna Chabowska, et al., Ateneum Academy in Gdansk, Poland

COVID-19 Pandemic and Work-Related Social Transformations.

13:45– 14:00 Jurand Sobiecki, Iwona Ulenberg, Iryna Mogetych, University of Gdansk, Poland and Ukrainian Catholic University, Ukraine

Inside Out: Exploring the Link between Gut Microbiome and Well-being.

14:00 – 14:15 Jurand Sobiecki, Martyna Malcher, Oliwia Kosecka, et al., University of Gdansk, Poland

The Relationship between Religiosity and Ambivalent Sexism: A Systematic Review and Meta-Analysis.

14:15 – 15:15 Session 5

Session Chair: Natalia Szymanska, IO PAN

14:15 – 14:30 Ilaria Guardamagna, University of Milano-Bicocca, Italy

Quantification and qualification study on the distribution of marine microplastics (MMPs) in the Baltic Sea.

14:30 – 14:45 A. M. Cefali, et al., RSE – Ricerca sul Sistema Energetico and University of Milano-Bicocca, Italy

Evaluating Formaldehyde Detection Techniques using 'LOOP' Test Bench.

14:45 – 15:00 Alessandra Gabriele, et al., Università del Salento, Lecce, Italy

Enhancing Biomedical Imaging: Novel Fluorescent Carbon Dots Synthesized via Eco-Friendly Methods.

15:00 – 15:15 Malgorzata Dembek, Szymon Smolinski, National Marine Fisheries Research Institute, Poland

Analysis of RNA to DNA ratio in fish larvae: key insights into development and adaptation.

15:15 – 15:30 Break



15:30 – 16:30 Session 6

Session Chair: Amandine Willems, Seatech, University of Toulon, France

15:30 – 15:45 Marlena Szeligowska et al., IO PAN, Poland

Marine-terminating glaciers in West Spitsbergen (Svalbard, European Arctic)– past, present and future.

15:45 – 16:00 Irene Gini, Mattia Borelli, et al., University of Milan, Italy

Optimization of ISORROPIA model applied to Italian electrical system flashover prevention.

16:00 – 16:15 Geetika Chauhan, Iwona Kuptel-Markiewicz, Institute of Geophysics PAN, Poland

Impact of human interventions on the river flow regimes in Poland.

16:15 – 16:30 Andrea Doldi et al., University of Milano-Bicocca, Italy

Field evaluation of low-cost Alphasense OPC-N3 during urban regeneration activities: the case of MUSA Open-air laboratory at University of Milano-Bicocca.

16:30 – 16:45 Poster session summary (Posters will be available on Padlet from 6 June)

Session Chair: Tymon Zielinski, SSA/IO PAN.

16:45 – 17:00 Announcements of winners.

17:00 Closing of the conference.



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List of posters.

1. **Mariola Gimla, Anna Herman-Antosiewicz, University of Gdansk, Poland and Oklahoma Medical Research Foundation, USA.**
Pyrazole derivative of usnic acid inhibits metastatic potential of pancreatic cancer cells in vitro.
2. **Maria Konarzewska et al., University of Gdansk, Poland**
The anticancer potential of compounds isolated from Baltic cyanobacteria against lung, breast and prostate cancer.
3. **Marcin Białowas et al., National Marine Fisheries Research Institute, Poland**
Impact of leachates from smoked cigarette butts on early life stages of rainbow trout *Oncorhynchus mykiss*.
4. **Roksana Szpara et al., University of Gdansk, Poland**
Effect of prebiotics on anxiety level and brain GABAergic neurotransmission in rats subjected to long-term electrical stimulation of the amygdala.
5. **Natalia Bulik et al., University of Gdansk and IO PAN, Poland**
Factors influencing the variability of stable isotopes of carbon, nitrogen, and sulfur in benthic macrofauna from Admiralty Bay, maritime Antarctic.
6. **Miriam Knefel et al., University of Gdansk, Poland**
Characteristics of selected environmental bacteriophages infecting *Salmonella enterica* serovars.
7. **Monika Zielenkiewicz et al., University of Gdansk, Poland**
The effects of compounds isolated from *Nostoc edaphicum* and *Pseudanabaena cf. galeata* on the viability of cervical cancer cells.
8. **Piotr Korona et al., Ateneum Academy in Gdansk, Poland**
The impact of junk food on health and advertising it to children.
9. **Agata Nowak, Dominika Saniewska, National Marine Fisheries Research Institute, University of Gdansk, Poland**
Mercury and methylmercury in Baltic herring (*Clupea harengus*, Linnaeus, 1761.) in 2018.
10. **Maja Ziemian, et al., University of Gdansk, Poland**
Resveratrol boosts enzyme activity by enhancing lysosomal receptors: A combined therapy approach with resveratrol and enzymes in a cellular model of Mucopolysaccharidosis type I.



11. **Marta Piotrowska et al., Ateneum Academy in Gdansk, Poland**
Modernisation or degradation? Perception of social and spatial change in coastal cities by tourists and residents.
12. **Dominika Hetko et al., University of Gdansk, Poland**
Mercury concentration and diatom flora changes in the developmental phases of the Baltic Sea from Ancylus Lake to the Post-Littoral Sea.
13. **Kornelia Krajewska et al., Ateneum Academy in Gdansk, Poland**
Exploring the Spectrum of Learning: Unveiling the Dynamics of Visual, Auditory, Read/Write, and Kinaesthetic Learning Modalities.
14. **Katarzyna Cejrowska et al., Ateneum Academy in Gdansk, Poland**
Don't let the teachers burn out.
15. **Elena Abd El et al., University of Genoa, Italy**
Characterization of bacterial inocula for experiments in ChAMBRé- Chamber for Aerosol Modelling and Bio-aerosol Research.
16. **Patrycja Nowakowska, IO PAN, Poland**
Shipwrecks – from dangers to new habitats.
17. **Weronika Chuma et al., Ateneum Academy in Gdansk, Poland**
Exploring the future: modern tools for learning English.
18. **Tommaso Isolabella et al., University of Genoa, Italy**
BLAnCA: a new broadband light absorption analyser for complex aerosol.
19. **Ewa Korejwo, IO PAN, Poland**
A girl in the Arctic – my experience during polar expeditions.
20. **Blanka Pajda et al., IO PAN, Poland**
Distribution of suspended particulate matter and heavy metals near Hansbreen Glacier (Hansbukta Bay, Hornsund).