

# INTERNATIONAL SOPOT YOUTH CONFERENCE

## Entitled: WHERE THE WORLD IS HEADING



10 June 2026

Institute of Oceanology PAN  
ul. Powstańców Warszawy 55, 81-712 Sopot



Climate and Ocean Research  
and Education Laboratory  
Institute of Oceanology PAN



2021  
2030  
United Nations Decade  
of Ocean Science  
for Sustainable Development

today  
we have



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# AGENDA

- 8:15 – 8:55**      **Registration**
- 9:00 – 9:05**      **Welcome by *Monika Kedra*, IO PAN Deputy Director  
and *Tymon Zielinski*, IO PAN/SSA Chair**      **Hall A**
- 9:05 – 10:00**      **Invited session on Youth Ocean Leadership Advocacy**      **Hall A**  
**Timberlyn Duncan, North Carolina State University, USA**  
People, Place, and Oceans: An integrated approach to communicating and  
conducting research  
**Veronica Rotman, University of Auckland, New Zealand**  
From Research to Reels: Communicating Science for Real-World Impact  
**Hadeer Elkhoully, CIHEAM Bari, Italy**  
Blue Economy, Science Communication, and Youth Leadership in Action:  
Insights from Egypt, Africa, and Beyond
- 10:00 – 11:00**      **PRESENTATION SLOT 1**
- Session 1.1**      **Hall A**  
*Session Chair: Aleksandra Koroza, SSA/IOPAN*
- 10:00 – 10:15**      **Kaluharage Prasadi Gayangika De Silva et al., IO PAN**  
Foraminiferal record and paleoenvironmental changes over the last 5000 years in  
the Gulf of Gdańsk, southeastern Baltic Sea
- 10:15 – 10:30**      **Hepert W., et al., University of Hamburg, Germany**  
The memory of Arctic Sea ice: a question of scale.
- 10:30 – 10:45**      **Falah Mirza Hanif Al, et al., Universitas Gadjah Mada, Indonesia**  
Reconstructing Environmental Change in Pariaman Mangroves Through  
Diatom-Based Indices
- 10:45 – 11:00**      **Asto Wahyuaji Purnomo, et al., Universitas Gadjah Mada, Indonesia**  
Reconstructing Mangrove Dynamics Through Diatom Records: Evidence from  
Northern Central Java.
- Session 1.2**      **Hall B**  
*Session Chair: Natalia Skierzynska, SSA/IOPAN*
- 10:00 – 10:15**      **Kosecka Oliwia, University of Gdansk, Poland**  
Pain as a Predictor for Alcohol Consumption Escalation in Current  
Drinkers: A Longitudinal Cohort Study.
- 10:15 – 10:30**      **Skoczko Michal, University of Gdansk, Poland**  
Vulnerable student profiles: the interaction between studying related  
psychological characteristics, emotional affect, and study addiction with  
moderating effect of perceived university support.



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**10:30 – 10:45** **Targus W. and Wichrowska N., et al., University of Gdansk, Poland**  
Lifestyle Patterns as Indicators of Psychosocial Risk: A Latent Profile Analysis of Gastrointestinal and Behavioral Factors.

**10:45 – 11:00** **Wawrzyniak Z, Bieleninik L., University of Gdansk, Poland**  
The role of emotion regulation in alcohol craving.

**11:00 – 11:15** **Break**

**11:15 – 12:15** **PRESENTATION SLOT 2**

**Session 2.1**

**Hall A**

*Session Chair: Dominik Krzyminski, IOPAN*

**11:15 – 11:30** **Kwoczek J., et al., University of Gdansk, Poland**  
Examining the Roles of Religious Affiliation and Gender in the Relationship Between Religiosity, Authoritarianism, and Social Dominance Orientation: A Systematic Review and Meta-Analysis.

**11:30 – 11:45** **Opala A., et al., University of Gdansk, Poland**  
Understanding Burnout in Sport: Associations with Big Five Personality Traits, Imagery Ability, and Perfectionism.

**11:45 – 12:00** **Zdolska Magdalena, University of Gdansk, Poland**  
Attitudes Toward Domestic Violence: Gender Differences and Order Effects in Questionnaire Administration.

**12:00 – 12:15** **Waszak Jan, University of Gdansk, Poland**  
Water in Purification Rituals as an Example of the Religious Use of Natural Resources.

**Session 2.2**

**Hall B**

*Session Chair: Amandine Willems, Océanide SA*

**11:15 – 11:30** **Gorski Hubert, The State University of Applied Sciences in Chelm, Poland**  
Noise reduction methods in modern aircraft engines.

**11:30 – 11:45** **Walaszek E., et al., University of Gdansk, Poland**  
Investigating Empathic Behaviour in Immersive Virtual Reality: A Study of Prosocial Decision-Making in Medical Students.

**11:45 – 12:00** **Waszak Julia, University of Gdansk, Poland**  
Graph Neural Networks as a Model for a Relational World: Why the Future of AI is Graph-Based.

**12:00 – 12:15** **Ramawati B., et al., Research Center for Population, National Research and Innovation Agency (BRIN), Indonesia**  
The Future of Conservation Beyond Formal Conservation Areas: Lessons from Community Practices in Sea Turtle Protection.

**12:15 – 12:30** **Break**



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**12:30 – 13:15 PRESENTATION SLOT 3**

**Session 3.1**

*Session chair: Timberlyn Duncan, North Carolina State University*

**Hall A**

**12:30 – 13:15 1 minute poster presentations**

*A complete list of poster presentations is included at the end of this document*

**Session 3.2**

*Session Chair: Wirginia Hepert, University of Hamburg*

**Hall B**

**12:30 – 12:45 Scibior J. and Wisniewska N., University of Gdansk, Poland**

Different adaptation to myophily, fly pollination, in two species of *Veratrum*.

**12:45 – 13:00 Banaszyk L., et al., University of Gdansk, Poland**

Trace metals have major consequences: thallium limits the functional integrity of the dune pioneer *Carex arenaria*.

**13:00 – 13:15 Faiz Zahran and Puti Sri Komala, Universitas Andalas, Indonesia**

Drowning in Nutrients: The Impact of Uncontrolled Aquaculture Expansion on the Trophic Status of Lake Maninjau.

**13:15 – 14:00 Networking lunch**

**Hall A**

**14:00 – 15:00 PRESENTATION SLOT 4**

**Session 4.1**

*Session Chair: Danuschka Devendra, SSA/IOPAN*

**Hall A**

**14:00 – 14:15 Falkowska Justyna, IOPAN, Poland**

The potential of environmental DNA for monitoring ecosystems in Arctic fjords.

**14:15 – 14:30 Gajda M., et al., IOPAN, Poland**

Southern Baltic Sea nematode monitoring: morphotaxonomy vs multiplex barcoding and metabarcoding.

**14:30 – 14:45 Morales Luna Hadrys, IOPAN, Poland**

Filter feeders in polar regions.

**14:45 – 15:00 Monteiro J. N. et al., Centro de Ciências do Mar do Algarve, Portugal**

Reproductive biology of the Fiddler crab *Afruca tangeri* in South Coast of Portugal.

**Session 4.2**

*Session Chair: Izabela Kotynska-Zielinska, TWH/SSA*

**Hall B**

**14:00 – 14:15 Fraczyk K., et al., Ateneum Academy in Gdansk, Poland**

When Technology Meets Curiosity: The Next Generation of Education

**14:15 – 14:30 Klimsiak S., et al., Ateneum Academy in Gdansk, Poland**

Where the World Is Heading in Terms of the Literacy Crisis



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**14:30 – 14:45** **Streich D., et al., University of Gdansk, Poland/University Claude Bernard, France**  
Emotional intelligence training program for adolescents involved in intensive training centers – a replication study on a polish group of table tennis players.

**14:45 – 15:00** **Richert A. and Tuchlinska R., Ateneum Academy in Gdansk, Poland**  
Neurodidactics in teaching and learning processes: teachers' awareness of neurodidactics and their training needs in teaching and learning processes.

**15:00 – 15:15** **Break**

**15:15 – 16:45** **PRESENTATION SLOT 5**

**Session 5.1**

*Session Chair: Jan Jakub Sliwinski, SSA/IOPAN*

**Hall A**

**15:15 – 15:30** **Bona Natalia, University of Gdansk, Poland**  
Where the light is heading? ALAN (Artificial Light At Night) in coastal and marine environments.

**15:30 – 15:45** **Moreno Bernabe, IOPAN, Poland**  
Struggle for existence of high-Arctic marine lithophiles assessed by means of underwater macrophotography.

**15:45 – 16:00** **Losi N., et al., University of Milano Bicocca, Italy**  
From Europe to Arctic: tracking shifts in Aerosol Chemistry across the AREX2024–GAIA C.

**16:00 – 16:15** **Iwan Agustina, Institute of Marine and Coastal Research (IMyC), Argentina**  
Socio-environmental dynamics of bycatch: perspectives, practices, and emotions in Argentine fisheries.

**16:15 – 16:30** **Janto A., et al., Technical University in Zvolen, Slovakia**  
Arctic and Alpine Lakes as Sentinels of Environmental Change.

**Session 5.2**

*Session Chair: Karolina Pierzynowska, University of Gdansk*

**Hall B**

**15:15 – 15:30** **Banaszak R., et al., University of Gdansk, Poland**  
When Transport Fails: Defective Mitophagy in Mucopolysaccharidosis-Plus Syndrome as a New Layer of Disease Mechanism.

**15:30 – 15:45** **Jeleniewska W., et al., University of Gdansk, Poland**  
Exploring Selective Anticancer Properties of Baltic Cyanobacterial Metabolites in Neuroblastoma.

**15:45 – 16:00** **Malcher M., et al., University of Gdansk, Poland**  
Gut-Brain Axis Interaction With Digital Overstimulation Factors: A Prospective, Randomized Controlled Trial (RCT) on the Effect of Postbiotic Akkermansia muciniphila Akk11 in Young Women.

**16:00 – 16:15** **Malinowska K., et al., University of Gdansk, Poland**  
Biological characterization and antibacterial potential of bacteriophage 4.1 against Salmonella enterica.



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<b>16:15 – 16:30</b>	<b>Szabelewska A., et al., University of Gdansk, Poland</b> Antibiotics from the Baltic – Antibacterial activity of the KUCC C4 (Pseudanabaenaceae) cyanobacterial strain, towards drug-resistant Streptococci.	
<b>16:30 – 17:00</b>	<b>Networking break</b>	<b>Hall A</b>
<b>17:00</b>	<b>Announcements of winners and closing of the conference</b>	<b>Hall A</b>



# LIST OF POSTERS.

- 1. Szczesna N., et al., Ateneum Academy in Gdansk, Poland**  
The Use of Technology in Teaching English in Primary School (Grades 4-8).
- 2. Jakubschon-Sawraza J., et al., Ateneum Academy in Gdansk, Poland**  
Where the world is heading? The choice is ours.
- 3. Knut R., et al., Ateneum Academy in Gdansk, Poland**  
There is nowhere to run anymore.
- 4. Krupienczyk M., Ateneum Academy in Gdansk, Poland**  
Types of fishes in the rainbow.
- 5. Gonera K., et al., University of Gdansk, Poland**  
Is Intracellular Calcium Enough to Drive T Cell Activation?
- 6. Manowska W., et al., University of Gdansk and IO PAN, Poland**  
Evolutionary Mismatch: the Stone Age Body in the Age of Smartphones.
- 7. Ulenberg I., Przerwa M., University of Gdansk, Poland**  
Who Becomes a Leader in the Future of Work? Soft Skills as Drivers of Informal Leadership Emergence.
- 8. Bečka Sadowska Ludmiła, University of Gdansk, Poland**  
Parental Identity in Transition: A Holographic Perspective on Preschool Adaptation.
- 9. Radzanowska-Alenowicz E., et al., University of Gdansk, Poland**  
Rare Diseases and the Need for Coordinated Care in Future Healthcare Systems.
- 10. Ulenberg Iwona, Ateneum Academy in Gdansk, Poland**  
Where Is Work Heading? Designing Future Organizations Through Psychological Need Regulation.
- 11. Janiga E., et al., University of Gdansk, Poland**  
Alternative treatments of hepatoblastoma – How does the oldest organisms on the earth can be used to benefit the youngest ones?
- 12. Wieczorek J., et al., University of Gdansk, Poland**  
Breaking the Biofilm: vB\_Sen-Miriam1 Phage Against Salmonella enterica.
- 13. Zaborowska Z., et al., University of Gdansk, Poland**  
Evaluation of the antibiofilm potential of bacteriophage 4.1 against Salmonella enterica biofilms.
- 14. Wieclawska J., et al., University of Gdansk, Poland**  
Preliminary insights into temporal variation of the moon jellyfish population structure in the Baltic Sea.
- 15. Pajewska I., Ateneum Academy in Gdansk, Poland**  
The Impact of Arctic Climate Change on Polar Bear Behavior and Life Cycle.
- 16. Szmydtka J., et al., University of Gdansk, Poland**  
The impact of combined lentiviral vector and resveratrol therapy on autophagy in Mucopolysaccharidosis Type IVA.



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17. **Orłowska N., et al., Ateneum Academy in Gdansk, Poland**  
The Impact of the Oil and Gold Extraction on the Environment.
18. **Szewel Z., et al., University of Gdansk, Poland**  
Uncovering the identity of Arctic staurozoans with integrative taxonomy.
19. **Nowakowska Patrycja, IO PAN, Poland**  
A dormant threat: risks and management strategies for potentially polluting wrecks.
20. **Tkaczuk Agata, University of Gdansk, Poland**  
Dysregulation of Ferroptosis in Mucopolysaccharidosis Type I: Insights from Estrogen Receptor Modulation.
21. **Ciesielska M., et al., University of Gdansk, Poland**  
Ferroptosis dysregulation as a potential mechanism of cellular damage in myofibrillar myopathy type 6.
22. **Pajda B. and Zaborska A., IOPAN, Poland**  
From glaciers to fjords: how climate-driven meltwater shapes contaminant pathways in the Arctic.
23. **Ochman N and Dembek M., National Marine Fisheries Research Institute, Poland**  
Impact of inflows on the structure and diversity of Baltic Sea zooplankton.
24. **Dembek M and Smolinski Sz., National Marine Fisheries Research Institute, Poland**  
Reconstructing temperature-dependent growth in herring larvae using otolith microstructure.
25. **Tyszkowski M., et al., Ateneum Academy in Gdansk, Poland**  
The fast-consumption model in e-commerce and its consequences: the Amazon use case.
26. **Koriat Julia Anastazja, II Highschool, Gdynia, Poland**  
Art of animation: Is the future of animations unsure?
27. **Samulewicz Kinga, Ateneum Academy in Gdansk, Poland**  
Addicted Children – Smartphone Dependency in the Young Generation in Poland.
28. **Sugier Joanna, Ateneum Academy in Gdansk, Poland**  
Ocean of Changes in Education.
29. **Sadowska K., et al., Ateneum Academy in Gdansk, Poland**  
ADHD and Educational Experiences in Adulthood (18+).
30. **Bronowski W., et al., Ateneum Academy in Gdansk, Poland**  
Artificial Intelligence in Education – Help or Threat?
31. **Szczubelek K., et al., Ateneum Academy in Gdansk, Poland**  
Blue Future. Why don't we escape the noise?
32. **Maj I., et al., Ateneum Academy in Gdansk, Poland**  
Drowning in Polyester: The hidden cost of fast fashion.
33. **Truszkowska Aleksandra, Ateneum Academy in Gdansk, Poland**  
Leisure Time Patterns and the Level of Satisfaction and Mental Well-being Among Adults.



34. **Richert Artur, Ateneum Academy in Gdansk, Poland**  
Neurodidactic: the role of teacher-student relationships in teaching effectiveness.
35. **Pellowska A., et al., Ateneum Academy in Gdansk, Poland**  
Returning to the Roots of Evolution- From Destruction to Birth.
36. **Wohlert Aleksandra, Ateneum Academy in Gdansk, Poland**  
Student Employment and Mental Health.
37. **Dabrowska Aleksandra, Ateneum Academy in Gdansk, Poland**  
The Crossroads of Tomorrow: Human Agency and Responsibility in Shaping the Global Future.
38. **Kaminska Weronika, Ateneum Academy in Gdansk, Poland**  
The impact of weather conditions on human psychological and physical well-being.
39. **Trzcinska M., et al., Ateneum Academy in Gdansk, Poland**  
The Rise of “Post-Human” Language Learning: AI as a Peer, Not a Tool.
40. **Schmajchel-Keler A., et al., Ateneum Academy in Gdansk, Poland**  
The Role of Exams in the Education System: Do Paper-Based Exams Still Make Sense?
41. **Patoka K., Rinc A., Ateneum Academy in Gdansk, Poland**  
The world of the future = the education of the future.
42. **Kisicka N., et al., Ateneum Academy in Gdansk, Poland**  
Crisis of endangered species and the path to restoration.
43. **Dabrowski Przemyslaw, Ateneum Academy in Gdansk, Poland**  
The Earth for Sale.
44. **Hudym A., et al., Ateneum Academy in Gdansk, Poland**  
The Role of Home and School in Children’s Environmental Education: The Example of Waste Segregation.
45. **Kubik Paulina, Ateneum Academy in Gdansk, Poland**  
Where is the world heading? – Spirituality in youth.

