



EuroGOOS
European Global Ocean
Observing System

**EuroGOOS Executive Board Meeting
29 January 2019**

Agenda Item 9: Strengthening current member involvement

Meeting Document 9.4: Overview of the IO-PAN's suggestion

Rationale and background

A proposal came forward from IO-PAN, EuroGOOS Member, to involve EuroGOOS in the Sopot Science Days. This can later serve as a best practice to engage with other members in their activities targeted at the next generation of scientists and broad public.

Key points

On 6-8 June 2019, IO PAN organizes Sopot Science Days:

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- 6 June: conference for school children;
- 7 June: Sopot Youth Conference, organized by Sopot Science Association together with IO PAN;
- 8 June: Science Fair in the city center.

It is proposed that EuroGOOS becomes involved the Sopot Youth Conference on 7 June, titled *Where the world is heading*, and the Science Fair on 8 June, themed *Ocean of changes*.

The Youth Conference will be at its the 11th edition; it is titled *Where the world is heading* and is for university and PhD students. Every year the conference includes at least 20 marine-related presentations. IO PAN wishes to internationalize the conference and proposes to EuroGOOS to get on board to help this process.

This conference resulted in three Springer books. There is an opportunity for this in 2019. The books from previous years include:

<https://www.springer.com/gp/book/9783319717876>;

<https://www.springer.com/gp/book/9783319142821>;

<https://www.springer.com/gp/book/9783319036823>.

Information from the 2018 edition is enclosed with this document and the visual recording is available here: <https://www.youtube.com/watch?v=NNIYs8fee2I>.

It is proposed that EuroGOOS becomes one of the organizers of the conference in 2019. Logo and information about EuroGOOS will be included on all materials. Glenn Nolan is invited to become a member of the scientific committee and give the opening lecture on 7 June. There is no financial contribution requested from EuroGOOS. EuroGOOS could also use this opportunity to present the 2019 Kostas Nittis award. EuroGOOS can receive exhibition space at the Ocean fair on 8 June.

There are other awards given to students: (i) by IO-PAN director for best presentation in Earth Sciences; (ii) by the GeoPlanet Polish Academy of Sciences consortium for the best poster; (iii) by the Sopot Science Association for best social sciences. Each award is at a level of c. 200 Euros and there is no conference fee. EuroGOOS will be free to follow the Kostas Nittis Award terms of reference.

INTERNATIONAL SOPOT YOUTH CONFERENCE

Entitled: WHERE THE WORLD IS HEADING

Institute of Oceanology Polish Academy of Sciences
Powstancow Warszawy 55, Sopot

25 May 2018

Agenda

- | | |
|----------------------|--|
| 8:15 – 9:00 | Registration |
| 9:00 – 9:10 | Welcome by <i>Jan Marcin Weslawski, IO PAN Director</i> and <i>Tymon Zielinski, IO PAN, Sopot Science Association Chairman</i> |
| 9:10 – 9:35 | The growth of EMI and implications for lecturers/teachers.
<i>Colin Campbell, University of Reading</i> |
| 9:35 - 10:50 | Session I: Natural Sciences and Polar Studies
Session Chairs: Anna Makarewicz, Anna Pouch |
| 9:35 – 9:50 | Spatial and temporal variability of High Arctic glacier's ablation based on example of the Waldemarbreen and Irenebreen, Svalbard.
<u><i>Marta Majerska, et. al., Nicolaus Copernicus University</i></u> |
| 9:50 – 10:05 | Mesoscale variability of zooplankton in Isfjorden (high Arctic fjord).
<u><i>Weronika Patuła, Marta Ronowicz, Agata Weydmann, University of Gdansk, IO PAN</i></u> |
| 10:05 – 10:20 | Earth sciences in forensic investigations – topic full of contradictions.
<i>Joanna Michalak, Nicolaus Copernicus University</i> |
| 10:20 – 10:35 | Sea Spray Aerosol as the Climate Factor in the Modern Society Awareness.
<u><i>Katarzyna Dziembor, Piotr Markuszewski, University of Gdansk, IO PAN</i></u> |
| 10:35 – 10:50 | Manifestations of shallow gas in acoustic imaging for sediments of the Gdańsk Basin and changes of their occurrence in years 2011-2017.
<u><i>Damian Jaśniewicz, et.al., IO PAN, University of Gdansk</i></u> |
| 10:50 – 11:00 | Coffee break |
| 11:00 – 12:30 | Session II: Social Sciences
Session Chairs: Dominika Janus |
| 11:00 – 11:15 | The Second Life: a Gift or a Curse?
<i>Anna Bury, University of Gdansk</i> |
| 11:15 – 11:30 | Where does depression lead the humanity?
<u><i>Justyna Piątek, Małgorzata Łyczakowska, Natalia Głowacka, University of Gdansk</i></u> |
| 11:30 – 11:45 | The Gender-Benders Are Here.
<i>Kinga Erzepki, University of Gdansk</i> |

- 11:45 – 12:00 **Jobs of the future.**
Kinga Wasilewska, Zofia Falkowska, University of Gdansk
- 12:00 – 12:15 **Where the World is Heading. About the forgotten world of reality.**
Kinga Wodzińska, University of Gdansk
- 12:15 – 12:30 **The Complexity of Racial Issues Based on Implicit Bias and Social Justice Warriors.**
Zuzanna Czubacka, Anita Pogorzelska, Marta Kot, University of Gdansk
- 12:30 – 13:15 Session III: 1 minute poster presentations**
Session Chairs: Magdalena Krajewska, Paulina Pakszys
- 13:15 – 14:00 Lunch**
- 14:00 – 15:15 Session IV: Natural Sciences I**
Session Chairs: Marta Konik
- 14:00 – 14:15 **The tune of your heartbeat – the secret of 432 Hz.**
Klaudia Szmidt, Neofilologye Artistic Institution Management
- 14:15 – 14:30 **Monitoring of Infrastructure in the era of big data.**
Rohan Soman, Wiesław Ostachowicz, Institute of Fluid Flow Machinery, PASci
- 14:30 – 14:45 **Various health measurement techniques in structural engineering.**
Kaleeswaran Balasubramaniam, et.al., Institute of Fluid Flow Machinery, PASci
- 14:45 – 15:00 **Space microbiology.**
Ewelina Prochwicz, University of Warsaw
- 15:00 – 15:15 Coffee break**
- 15:15 – 16:15 Session V: Natural Sciences II**
Session Chairs: Marta Skowron Volponi, Agnieszka Necel
- 15:15 – 15:30 **Bacterial multipartite genomes - going towards the light?**
Aleksandra Pawłot, Dariusz Bartosik, University of Warsaw
- 15:30 – 15:45 **Investigating the molecular mechanism of Hsp70-J-domain interaction.**
Igor Grochowina, et.al., Intercollegiate Faculty of Biotechnology UG&MUG, Gdansk University of Technology
- 15:45 – 16:00 **Potential antimicrobial effects of lip secretions in genus Maxillaria sensu lato (Orchidaceae, Maxillariinae)**
Monika Lipińska, Łukasz Haliński, Dariusz Szlachetko, University of Gdansk
- 16:00 – 16:15 **Quo vaditis antibiotics - can murein hydrolases replace you?**
Rafał Ostrowski, Magdalena Popowska, University of Warsaw
- 16:15 – 16:30 Coffee break**
- 16:30 – 17:30 Session VI: Natural Sciences III**
Session Chairs: Karolina Pierzynowska i Estera Rintz
- 16:30 – 16:45 **Antibiotic resistance – where this uneven fight heading?**
Katarzyna Ścibek, University of Warsaw

- 16:45 – 17:00 Phage cocktail against *Salmonella enterica*: isolation and characterisation of bacteriophages, cocktail creation and obstacles along the way.
Katarzyna Kosznik-Kwaśnicka, et. al., University of Gdansk, Alexandru Ioan Cuza University
- 17:00 – 17:15 A 130-Year-Old Specimen Brought Back to Life: A Lost Species of Bee-Mimicking Clearwing Moth, *Heterosphecia tawonoides* (Lepidoptera: Sesiidae: Osminiini), Rediscovered in Peninsular Malaysia’s Primary Rainforest.
Marta A. Skowron Volponi, Paolo Volponi, University of Gdansk
- 17:15 – 17:30 The effectiveness of phage cocktail in eradication of various *Salmonella enterica* serovars under laboratory conditions.
Łukasz Grabowski, et. al., University of Gdansk
- 17:30 – 18:20 Session VII: Poster presentations**
- 18:20 – 18:50 Jury proceedings**
- 18:50 Announcement of the results of the best presentation contest and the awards ceremony.**
- 20:00 Afterparty in Club Atelier (Sopot, ul. Mamuszki 1, near Hotel Grand)
All participants are welcome!**



INTERNATIONAL SOPOT YOUTH CONFERENCE
Entitled: WHERE THE WORLD IS HEADING

Institute of Oceanology Polish Academy of Sciences
Powstancow Warszawy 55, Sopot

25 May 2018
List of Posters

1. High-resolution atmospheric modeling in two high-latitude fjords, Hornsund and Porsanger.
Paulina Aniśkiewicz, Małgorzata Stramska.
2. The variability in iron (III) oxide-hydroxides content in sediments of the Gdańsk Deep.
Olga Broclawik, Katarzyna Łukawska-Matuszewska, Bożena Graca, Tamara Zalewska.
3. Anatomical structure of the succulent leaves.
Emilia Brzezicka, Patrycja Guzanek, Natalia Wiśniewska, Małgorzata Kozieradzka-Kiszkurno.
4. On the picocyanobacteria modelling in the Baltic Sea – pico-bioalgorithms development.
Agata Cieszyńska, Thomas Neumann, Małgorzata Stramska, Sylwia Śliwińska-Wilczewska.
5. Phytoplankton-driven pH changes in the Baltic Sea area.
Agata Cieszyńska, Thomas Neumann, Sylwia Śliwińska-Wilczewska, Małgorzata Stramska.
6. Analysis of wave and storm climate of the Gulf of Gdańsk over years 1958–2001.
Aleksandra Cupiał, Witold Cieślíkiewicz.
7. The role of orf61 and orf60a in the development of phage λ and phage Φ 24B, a representative of Shiga toxin-converting bacteriophages.
Aleksandra Dydecka, Bloch Sylwia, Topka Gracja, Nejman-Faleńczyk Bożena, Necel Agnieszka, Gąsior Tomasz, Węgrzyn Grzegorz, Węgrzyn Alicja.
8. Response of the rats immune system with different locomotory activity to single administration of amphetamine.
Arkadiusz Działoszewski, Karolina Krajewska, Wojciech Głac
9. Seoul's creative spaces in the light of the analysis of tourist geoportals.
Daria Gagacka, Jakub Diakowicz, Bartosz Domański.
10. Characterisation of novel Shiga toxin-converting bacteriophages.
Tomasz Gąsior, Katarzyna Licznarska, Agnieszka Necel, Aleksandra Dydecka, Sylwia Bloch, Gracja Topka, Bożena Nejman-Faleńczyk, Grzegorz Węgrzyn, Alicja Węgrzyn.
11. Ectomycorrhizal fungi of acidic beech forest during transformation from mature to natural regenerated forest.
Joanna Gołębiewska, Marta Jarosińska, Marcin Pietras.
12. The role of the 3' \rightarrow 5' exonuclease in stability of sRNA in Escherichia coli.
Michał Grabski, Olszewski Paweł.

13. Research on autogamy in the world of orchids.
Patrycja Guzanek, Emilia Brzezicka, Natalia Wiśniewska, Agnieszka Kowalkowska.
14. The activity of three antimicrobial peptides: protegrin-1, aurein 1.2 and citropin1.1 against *Staphylococcus pseudintermedius* strains isolated from animal infections.
Małgorzata Jarosiewicz, Katarzyna Garbacz, Wojciech Kamysz.
15. Influence of shipping noise on underwater acoustic field in high intensity traffic regions in southern Baltic Sea.
Damian Jaśniewicz, Zygmunt Klusek, Joanna Szczucka
16. Emotions and Visual Attention – on the waves or on the roads?
Agnieszka Karaś-Telesińska.
17. Genetic diversity of *Trebouxia* photobionts in a gradient of altitude in Bolivia.
Magdalena Kosecka, Beata Guzow-Krzemińska, Agnieszka Jabłońska, Martin Kukwa.
18. T7 RNA polymerase displays superior slippage properties.
Dawid Kościelniak, Ewa Wons, Monika Szadkowska, Joanna Środowska.
19. Modelling the potential geographic distribution and climatic factors limiting occurrence of expansive species - *Digitalis purpurea* L. in Europe.
Anna Kuczyńska, Magdalena Zarzycka, Marta Kolanowska.
20. Screening and characterisation of *Pseudomonas* spp. from domestic cattle.
Joanna Laskowska, Adrian Augustyniak, Bartłomiej Grygorcewicz, Xymena Stachurska, Paweł Nawrotek.
21. 14th protein coding gene in mitochondrial genome of *Mytilus edulis* mussels.
Marek Lubośny, Aleksandra Przyłucka, Beata Śmietanka, Sophie Breton, Artur Burzyński.
22. The role of small regulatory RNAs in *Listeria monocytogenes*.
Magdalena Ładziak.
23. A sample preparation protocol for scanning electron microscope examination of *Staphylococcus aureus* biofilm.
Natalia Łubowska, Lidia Piechowicz.
24. Angular unconformity for subsurface data, Cracow-Silesian Homocline, Poland.
Michał Michalak.
25. Where the World is heading in the face of cardiovascular diseases?
Aleksandra Michalska-Grzonkowska, Marcin Pajkowski, Aleksandra Parczewska, Marzena Romanowska-Kocejko, Marta Żarczyńska-Buchowiecka, Krzysztof Chlebus.
26. What if antibiotics can aggravate infection? Bacteriophage vB_Eco4M-7 against Enterohemorrhagic *Escherichia coli* (EHEC).
Agnieszka Necel, Topka Gracja, Dydecka Aleksandra, Bloch Sylwia, Nejman-Faleńczyk Bożena, Jurczak-Kurek Agata, Gąsior Tomasz, Kwaśnicka-Kosznik Katarzyna, Grabowski Łukasz, Węgrzyn Alicja, Węgrzyn Grzegorz.
27. Genistein-mediated elimination of behavioral and biochemical defects in the rat model of sporadic Alzheimer's disease.



Karolina Pierzynowska, Magdalena Podlacha, Lidia Gaffke, Joanna Brokowska,
Irena Majkutewicz, Jagoda Mantej, Marta Osiadły, Dorota Myślińska, Grzegorz Węgrzyn.

28. The saxicolous species of the lichen genus *Pertusaria* s.l. in Poland.
Małgorzata Pyrcha, Magdalena Oset.
29. Marigold (*Calendula officinalis* L.) as a model for studies concerning the role of triterpenoids in the plant response to environmental stress.
Agata Rogowska, Cezary Pączkowski, Marek Długosz, Anna Szakiel.
30. Influence of galactooligosaccharides and electrical stimulation of the amygdala on sociability index in the three-chamber social test in rats with different stress-related vulnerability.
Jan Ruciński, Ewelina Kurowska, Magdalena Podlacha, Dorota Myślińska, Agnieszka Stankiewicz, Edyta Jurkowlaniec.
31. Transition of non-pathogenic bacterial strains into emerging pathogens.
Dorota Sentkowska, Bartosik Dariusz, Szuplewska Magdalena.
32. Is the devil in the details? Scanning electron microscopy in botanical studies exemplified by *Goodyera repens* (L.) R. Br. (Orchidaceae Juss.).
Iwona Skorowska, Artur Eichmann.
33. Antimicrobial *Streptomyces* strains from cave microbiota: a potential source for new drugs.
Jurand Sobiecki, Daria Lubomska, Weronika Jaroszewicz, Katarzyna Kosznik-Kwaśnicka, Alicja Węgrzyn.
34. Bactericidal activity of phage-impregnated cellulose membranes against chosen foodborne.
Xymena Stachurska, Bartłomiej Grygorcewicz, Paweł Nawrotek.
35. Bioremediation and bioaugmentation of soils contaminated with heavy metals and petroleum-like compounds by Antarctic bacterial strains.
Michał Styczynski, Tomasz Krucon, Anna Ciok, Witold Uhrynowski, Pablo de Miguel Herraiz, Katarzyna Grzelak, Lukasz Drewniak, Lukasz Dziewit.
36. Plastic debris as a source of 4-tert-octylphenol and 4-nonylphenol for seabirds – preliminary results of experimental research.
Karolina Szewc, Marta Staniszevska, Bożena Graca.
37. Characterization and lytic activity of bacteriophage vB-EcoS-95 and use of this phage as means of destroying or controlling biofilms.
Gracja Topka, Sylwia Bloch, Bożena Nejman-Faleńczyk, Agata Jurczak-Kurek, Aleksandra Dydecka, Agnieszka Necel, Tomasz Gąsior, Grzegorz Węgrzyn, Alicja Węgrzyn.
38. Restriction effectivity of the invasive DNA depends on the fragile balance between methylation and restriction.
Karolina Wilkowska, Marian Sęktas.
39. Micromorphological and ultrastructural analysis in studies of floral secretory tissue.
Natalia Wiśniewska, Patrycja Guzanek, Emilia Brzezicka.
40. The use of computer software R to analyse the variability of PM_{2,5} concentrations in Polish coastal zone.
Kinga Wiśniewska, Anita Lewandowska.



41. The changes in size structure of PRC cities over 1 mln inhabitants in 1950-2015 in terms of economic transformations.
Miroslaw Wylon, Marta Majerska, Jakub Diakowicz, Bartosz Domański, Kamil Kaliński.
42. Is pollution in the Arctic getting worse? Sources, pathways and examples of aerosol pollution events in the Svalbard region.
Kasper Zielinski.
43. Anti-biofilm activity of drug-impregnated nanobiocellulose against wound pathogens.
Anna Żywicka, Adam F. Junka, Karol Fijałkowski.
44. Phenotypic and genotypic methods in the identification of selected members of Enterobacteriaceae
Michalina Chelińska.
45. Influence of environmental factors on fitness components: effects of nutrition on reproductive traits in *Tribolium castaneum*.
Michał A. Małszycki, Agata Plesnar-Bielak, Katarzyna Woch, Ameer T. H. Alkhawlany, Agata Hołysz, Joanna F. Correia, Paulina Kramarz, Zofia Prokop.



INTERNATIONAL SOPOT YOUTH CONFERENCE

Entitled: WHERE THE WORLD IS HEADING

The Sopot Science Association (SSA) welcomes contributions to the third edition of the International Conference entitled Where the World is Heading. This conference is the continuation of the Sopot Youth Forum. Since 2008 over 300 scientists from different countries have presented their work during the Forum.

We invite young scientists or science enthusiasts, university students, Ph.D. students and young doctors to present their work, visions, opinions, and thoughts. The Sopot Youth Conference consists of two thematic blocks: humanities and social sciences and the second one-natural and physical sciences. **Both oral (15 minutes) and poster presentations are welcome. In justified cases of foreign participants, the Scientific Committee may consider Skype presentations. Number of such cases will be limited.**

Due to the multidisciplinary character of the Sopot Youth Conference abstracts and presentations should be prepared in an intelligible manner. **The Conference language is English.**

Our Conference Proceedings are registered, and have an ISBN, and thus can be cited.

Just like in previous editions this year the best presentations will be granted FINANCIAL AWARDS.

IMPORTANT DATES

- | | | |
|---|-----------------|-------------|
| • Abstracts (max. 1500 characters) | 16 April | 2018 |
| • Acceptance notifications | 20 April | 2018 |
| • Conference | 25 May | 2018 |

ORGANIZATION

Sopot Science Association (<http://stn.edu.pl>).

VENUE

Institute of Oceanology Polish Academy of Sciences (IO PAN); ul. Powstancow Warszawy 55 (<http://www.iopan.gda.pl>).



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Abstracts should be sent to:

- Natural Sciences: **Paulina Pakszys**
- Humanities and Social Sciences: **Izabela Kotynska-Zielinska**

More information about the Symposium and ABSTRACT TEMPLATE at: <http://stn.edu.pl/SFM2018>.