

Fishing from an ocean of data to foster the development of a knowledgeable and sustainability friendly society.

- COURSE SYLLABUS



1.	Course title: Fishing from an ocean of data to foster the development of a knowledgeable and sustainability friendly society
2.	Lecturer: Tymon Zieliński with IOPAN team and Edyta Zawisza (ING PAN)
3.	Field, type and level of studies, year of study: <i>All GeoPlanet school PhD candidates, all years of study</i>
4.	Course character: <i>Interactive workshop</i>
5.	Teaching method:. <i>In person, interactive</i> <i>The workshop will take place in the Conference Room at the Institute of Geological Sciences, Polish Academy of Sciences, located at Twarda 51/55, Warsaw.</i>
6.	Language: <i>English</i>
7.	Course type and number of hours: <i>Practical workshop, up to 8 hours.</i>
8.	Estimated load of student's independent work: <i>8h</i>
9.	Total workload and number of ECTS points: <i>0,5 ECTS</i>
10.	Short description and main focus of the course: The goal of the workshop is to explore the role of researchers and citizens in supporting community led action on sustainability, climate action, and community resilience through engagement and outreach. Co-designed in collaboration with European partners and community representatives, the workshop will explore opportunities and challenges in communication of scientific information to general public. A series of short introductions from the panel (including live links and/or recorded video messages from community groups) will precede group work on creation of dedicated sustainability related actions to promote effective transfer of knowledge to citizens. During the workshop participants in groups use their common knowledge to create effective means/actions for transfer of science based information with reference to sustainability and climate issues. We expect that groups of participants will work out the following: <ul style="list-style-type: none"> • What resources can scientific organizations provide to support effective knowledge transfer? • What format (infographic, brief, video, presentation, etc.) is most effective? • How can we identify audience preferences (with regards to engagement activity and

	<p>output/resource format)?</p> <ul style="list-style-type: none"> • Tips on accelerating community led action. • Network between community stakeholders, including co-operation of researchers and citizens.
11. References:	<ol style="list-style-type: none"> 1. Seys, J., Cox, L., Şahin Yücel, E., Ezgeta-Balić, D., Faimali, M., Garaventa, F., García-Martínez, M-C., Gili, C., Kopke, K., Moreau, K., Petretera, F., Simon, D., Villwock, A., Zielinski, T., Muñiz Piniella, A. Marine Science Communication in Europe – A way forward. Muñiz Piniella, A., Kellett, P., van den Brand, R., Alexander, B., Rodriguez Perez, A., Van Elslander, J., Heymans, J. J. [Eds.] Future Science Brief 8 of the European Marine Board, Ostend, Belgium. 48pp. ISBN: 9789464206166; ISSN: 2593-5232 DOI: 10.5281/zenodo.644414, 2022. 2. A blueprint for ocean literacy: EU4Ocean. T. Zielinski, I. Kotynska-Zielinska, C. Garcia-Soto. Sustainability 2022, 14, 926. https://doi.org/10.3390/su14020926. 2022. 3. Abundance of environmental data vs. low public interest in ocean and climate issues. Where is the missing link? T. Zielinski, E. Bolzacchini, K. Evans, L. Ferrero, K. Gregorczyk, T. Kijewski, I. Kotynska-Zielinska, P. Mrowiec, B. Oleszczuk, P. Pakszys, E. Piechowska, J. Piwowarczyk, J. Sobieszczanski, M. Wichorowski. Frontiers in Marine Science, doi: 10.3389/fmars.2021.619638 2021. 4. <i>International Council for Science (ICSU), 2017. A Guide to SDG Interactions: from Science to Implementation [D.J. Griggs, M. Nilsson, A. Stevance, D. McCollum (eds)]. International Council for Science, Paris; DOI: 10.24948/2017.01</i>
12. Prerequisites:	<p><i>none</i></p>
13. Educational outcomes:	<p><u>PQF level 8 codes:</u></p> <p><i>P8S_WK</i></p> <hr/> <p><i>Knowledge:</i> <i>Students understand the fundamental tools required for effective knowledge transfer. They recognize the pivotal role of networking among community stakeholders, which involves cooperation between researchers and citizens, as well as the significance of other self-presentational methods..</i></p> <hr/> <p><i>Practical Skills:</i> <i>Students are able to identify the most important issue of their research. They are able to choose appropriate tools to solve research problem. They are able to present graphically and numerically the analytical results to scientific community and as well as society.</i></p> <hr/> <p><i>Social Skills:</i> <i>Students are ready to work in a team in the field of professional tasks. They are able to present their research object and importance of research in professional speech.</i></p> <p><i>P8S_UK, P8S_UU</i></p> <hr/> <p><i>P8S_KK</i></p>
14. Evaluation of the educational outcomes:	<p><i>Group work and their final project outcomes</i></p>
15. Criteria to complete the course:.	<p><i>participation in the entire workshop</i></p>

16. Contact with the lecturer:

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