



Mer & Education Summer School



‘Teach the teachers’

Nicolas Kolodziejczyk¹, Jade Burdallet³, Yann Coquet⁴, Martina Ferraris³, Lionel Feuillassier², Christian Goubin⁴, Tristan Hatin², Blandine Jaouen², Enora Leproust¹, Agnès Lewden², Quentin Millière¹, Riwalenn Ruault¹, Chloé Vernet¹, Walter Saunier⁴, Anne Rognant²

¹UBO/IUEM, Brest, France

²Océanopolis, Brest, France

³Ifremer, Brest, France

⁴Académie de Rennes, Rennes, France



2nd Ocean Observers Workshop, 30 November 2021

What is Mer & Education Summer School ?



- Yearly multidisciplinary Summer School for teacher (end of August)
- Multiply the outreach power in Marine and Coastal Sciences towards school teachers
- Participate in the continuing education of french speaking teachers: endorsed training program (PAF) of French Brittany teacher since 2020
- Provide ocean literacy and up-to-date scientific results to middle & high school* teachers
- To enforce to the link between teachers and scientists



Université de Bretagne Occidentale



*11-18 years old pupils

Objectives of Mer & Education



- To provide overview of current research in marine and coastal sciences.
- To offer teachers the opportunity to update their knowledge of the science and societal issues related to the Marine and Coastal sciences.
- To address the complexity of the subject approached: its history, the social stakes, the conflicts of interest, the scientific uncertainties in the face of the the demand for expertise and decision support, ...
- To present scientific, technical and documentary tools, databases that teachers can that teachers can use in their classroom
- To allow teachers to experiment with pedagogical tools
- To open a space for to discuss how they could reinvest their experience in the classroom in the form of innovative experience and/or interdisciplinary educational projects
- To be "close" to the Science in progress

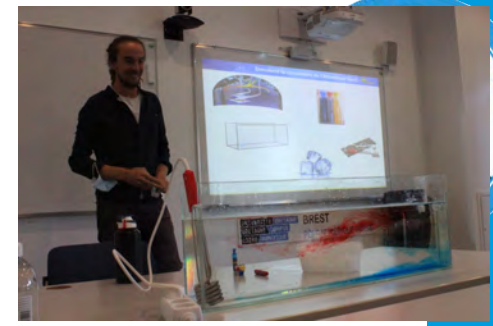
A yearly multidisciplinary summer school

- Since 2013
- 1 yearly problematic, 3 perspectives
- A multidisciplinary approach
- Favorable academic marine science, engineering schools and industrial context in Brest
- Teachers from different disciplines (natural sciences, history, foreign languages, ...)
- Teams of outreach and pedagogic expert at UBO/Oceanopolis/Ifremer/EN



A week of training

- ~ 60 teachers, ~30 marine scientists & experts
- **Multidisciplinary agenda** set up with scientists, outreach experts and pedagogic engineers
- Day 1 : yearly **problematic presentation in plenary session**
 - Conferences, round tables, ...
- Day 2&3: **3 thematic immersive parallel sessions** addressing the problematic of the summer school
 - Conferences, visiting labs, practice, serious games, presentation of new pedagogic tools, ...
 - side events : e.g. Ice breaking, Art & Sciences events, networking, ...
- Days 4 : **wrap up**
 - feed back, pedagogical transposition, presentation of previous years pedagogic project



Conclusion & Perspectives



- Mer & Education succeed to train french speaking teachers in Marine sciences since 2013
- Foster the link between the researchers and school teachers
- Evolved from a simple workshop to a official training program in French Brittany (endoredced by Académie since 2020)
- Enforce the web platforms of resources, follow up of the emerging pedagogical project of the teachers, export Summer School in other regions, ...
- Next year problematic : Ocean & Numerical sciences (big data, AI, omics approaches ...)



Tanks you for your attention



<https://www.univ-brest.fr/mer-education/menu/Presentation>

