



Irish Ocean Literacy Network Report on Annual Meeting

DISCOVERY & LEARNING CENTRE, DUBLIN ZOO,
DUBLIN

4 December 2024



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AGENDA

10.00 – 10.30 **Registration and Networking** (coffee and tea available)

10.30 – 11.00 **2024 Network Activity Update:** An update to members on the network's activities in 2024

11.00 – 12.15 **Presentation Session:** This session will give participants an introduction to interesting initiatives and activities. There will be time for Q&A after each presentation.

- **Olive Heffernan (High Seas) From Ireland to Antarctica: covering global ocean issues.**
- **Kate Burns (Burns Consulting / Islander Kelp) Marine Innovation and Relevance to Coastal Communities**
- **David Whyte (MAREI, UCC) Citizen engagement in marine research projects, current trends and gaps**
- **Majbritt Bolton-Warberg (Marine Institute)**
- **Sorcha Byrne (MARA)**
- **Chris Bean (Geophysics Section, Dublin Institute for Advanced Studies) Fin whale song beneath your house: how seismology can bring new information to coastal communities**

12.15 – 13.15 **Member Updates Open Mic:** An opportunity for members to request a 5 min slot to present a topic of interest to participants. Format is open, verbal or PowerPoint presentation. Please email us ASAP if you would like to book a slot (first come first served).

13.15 – 14.30 **Lunch and Networking**

14.30 – 14.40 **2025 Action Plan:** A presentation on the draft action plan for consideration by the members followed by break out sessions to capture members ideas and feedback.

14.40 – 15.20 **Breakout Sessions**

Using a carousel method, members will rotate stations and provide inputs to the following topics:

Campaigns

Are there any priority common messages that IOLN or its members can help communicate to specific audiences or wider society? Who should fund campaigns?

Regional Needs

Building upon the 2024 regional events, what other work could IOLN support to address regional/local community needs?

Capacity building

What type of capacity building would you like to see IOLN organising for its members?

Open Choice

A chance to discuss any other areas of interest to members.

15.20 – 15.30 **Close of Annual Member Meeting**

15.35 – 16.00 **Annual General Meeting:** All participants are welcome to attend if they are interested. Only subscribed members will be allowed to vote.

Meeting minutes

The **2024 Annual Meeting** of the Irish Ocean Literacy Network (IOLN) took place on December 4th in the Discovery & Learning Centre of Dublin Zoo from 10am to 3.30pm. It was followed by the **Annual General Meeting** of the IOLN Company Limited by Guarantee (CLG).

The meeting was attended by 29 IOLN members and other ocean stakeholders who had the opportunity to hear what the IOLN has achieved in its first year as CLG as well as to contribute to the discussion aimed at shaping the work plan of the Network for 2025 (Fig. 1, see List of Attendees at the end of the report). Also, the meeting offered the attendees the chance to discover the stories shared by the engaging invited speakers, whose experiences range from media to blue economy, community engagement, bioacoustics, and EU projects, as well as the inspiring ocean literacy work carried on by our IOLN members.



Fig. 1. Group photo of the attendees at the 2024 IOLN Annual Meeting, who represented 18 different organisations (see List of Attendees).

After a coffee break to welcome the attendees and give them the time to get acquainted with each other, the meeting started with a presentation given by the IOLN Director **Noirin Burke** (Fig. 2) who set the scene by describing the [developments of the IOLN as a CLG](#). In fact, the presentation focused in particular on the Network's activities in the last year. Firstly, the IOLN completed the establishment of its governance, which is now composed of a **Board** of five Directors and an **Advisory Panel** of 12 senior representatives of organisations from various marine and maritime sectors. Also, the IOLN undertook full rebranding, and it has now a new logo which key elements are people, ocean, and waters. Four **working groups** (WGs) were established in 2024 to coordinate the work needed to achieve the objectives of the [IOLN 2024-2030 Strategy](#); the focuses of the WGs are 1) Education, 2) Capacity Building & Training, 3) Understanding Regional Activism and 4) All-island Campaigns, and, at this stage of the presentation, one Chair for each WG illustrated the work carried on so far. Also, Micheál Ó Cinnéide, Co-Chair of WG3, updated the attendees about the three regional meetings that took part over the year in the counties of Kerry, Mayo and Wexford; he reported that the attendees of all the three meetings appreciated the chance for open dialogue offered by the IOLN with these events.

Noirin then resumed the presentation mentioning the participation of the IOLN at international high-level events in 2024, like the **Ocean Decade Conference** in Barcelona and the first **World Ocean Literacy Conference** in Venice. Finally, Noirin described the new membership and sponsorship programme that the IOLN has started from summer 2024 with the intention to build financial resilience for the Network. So far, the Network counts around 35 Founding Members from Government agencies, Universities, NGOs, and private enterprises, and one Sponsor, i.e. the Marine Institute, who have committed €15,000 for three years (Fig. 2).



Fig. 2. IOLN Director Noirin Burke welcomes the attendees and explains the activities which will take place throughout the day.



Fig. 3. A slide from Noirin's presentation showing an overview of the current IOLN members divided by sector.

To follow, the five invited speakers presented they are very fascinating and diversified work.

[Olive Heffernan](#) is a science journalist who has spent the past 15 years writing about oceans and climate change. Her background is in fisheries science, but after moving into journalism she joined **Nature** magazine as an online news editor, before going on to launch the world's most influential climate change journal, **Nature Climate Change**. Olive is now freelance, and her intention is to write for a broader audience than the scientists. "**High Seas**" is her first book (Fig. 4). To find answers to the numerous questions she had about this vast territory, Olive undertook a journey to the far corners of the Earth, during which she came into contact with conservationists fighting to protect these waters as well as with those looking to exploit the ocean's untapped resources. Above all, she came closer to the huge scientific effort underway to better understand our open ocean, and how we could use this unclaimed space. During [her presentation](#), Olive described also the last project she has been working on, aimed at drawing attention to Lough Hyne (Co. Cork), the oldest marine reserve in Europe which has been showing signs of decline due to a combination of multiple pressures and lack of effective management. Olive concluded her presentation saying that she wants to focus on the stories of people adapting to the current transformations for her future work.

In [her presentation](#), **Kate Burns**, Founder and CEO of [Islander Rathlin Kelp](#), reflected on what marine innovation means for coastal communities (Fig. 5). Coastal zones are absolutely critical to people's lives and the planet, but the communities populating them seem to be left out of the

decision-making process concerning marine innovation and their consequences on traditional economies due to the lack of a national plan for stakeholder engagement.



Fig. 4. A moment from Olive Heffernan's talk when she presented her book "The High Seas."



Fig. 5. Kate Burns shared her multiple experiences as consultant across the island of Ireland and kelp farmer in Co. Antrim.

Kate mentioned some examples of how coastal innovation has not brought the desired results, as e. g. for the FLAGs scheme and Pairc na Mara; she also mentioned the fact that local councils in Ireland are often underfunded, and this creates a major gap in addressing marine management. In analysing what can be done, Kate first stated the need to increase marine social sciences to create an interface between sciences (including citizen science), economy, and society. She also stressed the need to apply new technologies to support the fishing industry, the blue economy opportunities for local and coastal communities (e. g. kelp farming), and the importance of education, also by proposing education programmes designed by fishermen for fishermen and aimed at solving conflicts. Finally, Kate pointed out the need for pilot exemplar projects and champions who can influence agencies and departments.

David Whyte is a postdoctoral researcher at **MaREI** (UCC); [his presentation](#) focused on the projects he is currently working on, which are highlighting how the language of citizen engagement and ocean literacy has become increasingly visible in marine policy, but this has still minimal meaningful effects on society (Fig. 6). The first project he mentioned was **PREP4BLUE**: the IOLN is involved in it as one of the three national ocean literacy networks chosen to test the methodologies developed within the project. Its results highlight how funding three years of human resource capacity and other financial support in increasing capacity can boost the growth of such networks, but also how this can be dramatically affected by cultural differences between nations. David is also working on a project called **MPA Life Ireland**, a €25m project led by the Irish government to co-design, designate and manage marine protected areas in 30% of Irish waters which for the first time will explore the needs of communities and stakeholders on this matter, through 180 community-based/participatory events throughout 2025-2030. Finally, David introduced [TIDAL ArtS](#), an EU-funded project that combines the power of art and science to inspire action for our ocean and waters. In 2025 TIDAL ArtS will fund grants of €15,000 and €50,000 for participatory ocean science-arts projects across Europe.

Majbritt Bolton-Warberg, Blue Bioeconomy Programme Manager at the **Marine Institute**, presented a library campaign she has been running since 2023 during [Bioeconomy Ireland Week](#) to highlight the opportunities and solutions provided by the blue bioeconomy and its development in Ireland (Fig. 7). This is a growing area that is key to supporting employment and business opportunities in coastal communities, transitioning to climate neutrality, enhancing food security, and promoting environmental sustainability. The campaign this year took place between October 14-20, when 26 county libraries across the country hosted a diverse range of activities ranging from talks by specialists from the Marine Institute, other state agencies and local authorities, universities, businesses and community groups; hands-on blue bioeconomy workshops for over 200 primary school students in collaboration with the Marine Institute's **Explorers Education Programme**; book and digital displays focused on bioeconomy; family-friendly resources on different aspects of ocean literacy. Majbritt concluded [her presentation](#) with great enthusiasm by saying that the campaign reached 585 people through the different events, and by acknowledging the importance of events like the meetings organised by the IOLN to promote collaboration: in fact, Majbritt ran the pilot of the library campaign on her own in 2023, but this year she could count on the collaboration of a large number of partners who helped her make the campaign a success.



Fig. 6. David Whyte starts his presentation about the citizen engagement projects he has been working on in MaREI (UCC).



Fig. 7. The presentation about the library campaign for Bioeconomy Ireland Week given by Majbritt Bolton-Warberg.

The [next presentation](#) was given by **Sorcha Byrne** from the **Maritime Area Regulatory Authority** (MARA) who introduced this newly established state agency and its roles and responsibilities (Fig. 8). MARA is an independent regulatory authority, under the aegis of the Department of the Environment, Climate and Communications with a critical role in the new streamlined system for regulation of the maritime area. In fact, MARA's role is to manage the occupation of the maritime area and to enforce the provisions of the new planning regime. As envisioned by the National Marine Planning Framework and the Maritime Area Planning Act, MARA was established in 2023 to assess the applications for Maritime Area Consents (MACs) and Maritime Usage Licences (MULs) in areas selected for Offshore Renewable Energy. Consequently, MARA oversees the compliance of MACs and MULs awarded and applies enforcement powers in case of a breach of planning conditions, or unauthorised development. To best fulfil its role, MARA is building relationships and agreements with key stakeholders and regulators, and it has recently developed its [Statement of Strategy 2024-2027](#) which sets its mission, vision and values, a was firstly presented at a public engagement event at the IOLN Regional Members' Meeting in Wexford last October.

Prof. Chris Bean, Head of Geophysics at the Dublin Institute for Advanced Studies (Fig. 9), described the exciting discoveries made by deploying the *in situ* Marine Laboratory for Geosystems Research (**iMARL**), a network of sensors located on the ocean floor that provide direct long-term observations of the interaction between the ocean and solid earth to gain a better understanding of how they interact with one another. iMARL is also equipped with hydrophones, therefore, besides detecting offshore earthquakes and storms, iMARL can also record ocean noise and biologically generated acoustic signals, e. g. from cetaceans. However, a very sensational discovery for Chris was to realise that the low-frequencies of the whales calls can be detected by seismographs on land at good distance from the shore, and this is a fascinating thought considering that people living along the coast have mostly no idea of the fact that their homes periodically vibrate due to the transmission of whales' signals! This presentation clearly showed how seismic stations, either on land or offshore, can help learn more about the ocean, and Chris also mentioned that there is an opportunity for everyone to actively contribute to seismic research through the platform [Quake Shake](#) which offers participants a hands-on experience in monitoring and understanding seismic activities.

The last part of the morning session was dedicated to the IOLN Members updates Open Mic: members were given the opportunity to put themselves forward to share their most recent ocean literacy work in 5-minutes flash presentations. Two members availed of the opportunity:

- **Michael Officer**, Programme Manager at [Cuan Beo](#), presented the **Source to Sea** education programme of the organisation (Fig. 10). Through sessions that incorporate Cuan Beo's 3 Education Pillars of Sustainability, Education, and Adventure, this programme takes TY students on a journey from upstream in Catchment 29 (relevant to their location) downstream to the coast and beyond to aquaculture farms, exploring the ecosystems, biodiversity, and communities reliant on good water quality along the way. Based on this experience, Michael

concluded the [presentation](#) by proposing some suggestions about how the IOLN could support the work of organisations like Cuan Beo.



Fig. 8. Sorcha Byrne starting her presentation, whose title is the subheading of MARA's Statement of Strategy 2024-2027.

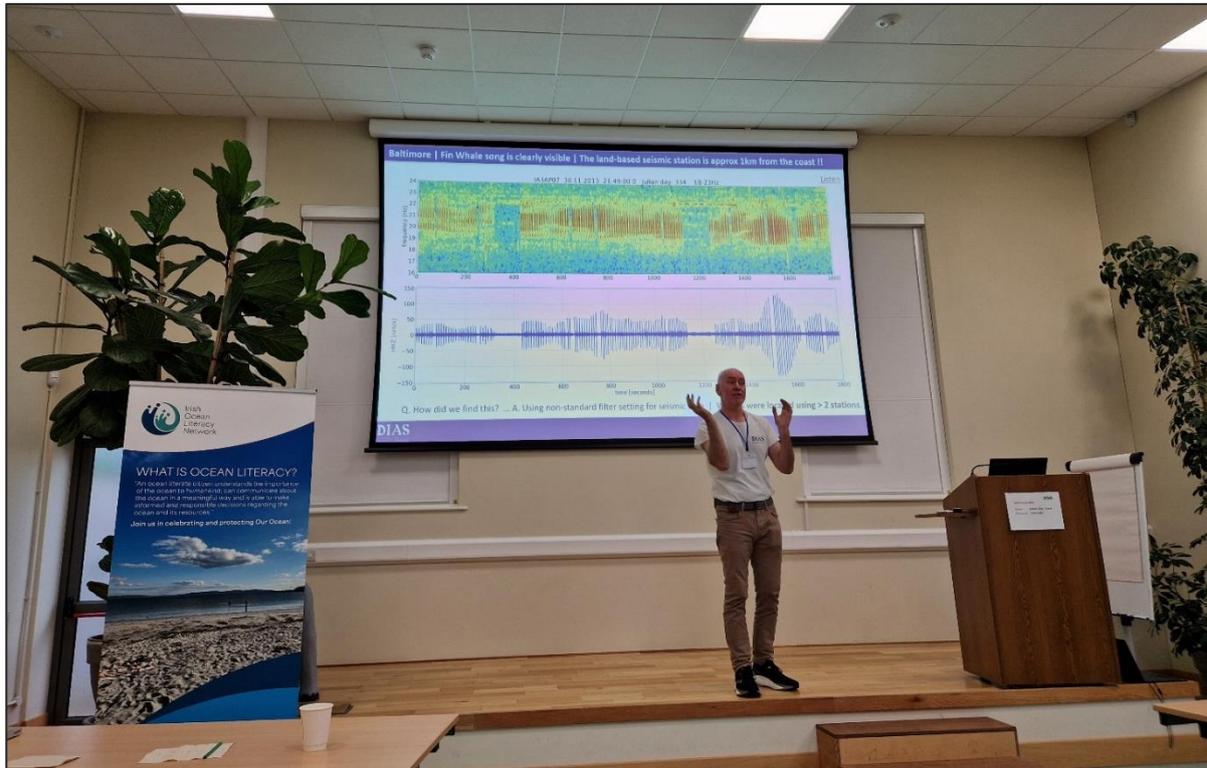


Fig. 9. Prof. Chris Bean showing how the sonograms produced by earthquakes overlap with the whale songs.

- **Dave Wall** from the National Biodiversity Data Centre provided the audience with an [update](#) on [Explore Your Shore!](#) (EYS!), the national survey of marine and coastal biodiversity aimed at creating a robust baseline dataset for intertidal plant and animal species in Ireland. EYS! has now gathered 25,058 validated open access records, and the number of records per year has increased drastically since 2020. Dave shared some gorgeous pictures of species recorded by enthusiastic citizen science across the country as well as graphs obtained by plotting records gathered over the years which show the increase of indicator species of climate change and water quality, and some invasive species.

After the lunch break, the meeting resumed with an overview given by the Director **Heidi McIlvenny** of the current draft of the IOLN 2025 action plan. A copy of this draft is attached to this document. The action plan provides a roadmap for the IOLN to achieve its vision of embedding ocean literacy in all facets of Irish society. The actions proposed for the upcoming year of operations are aligned with the strategic objectives of the IOLN. These actions were presented to the IOLN Advisory Panel on the 2nd of December 2024 and their inputs are already reflected in this current version.

WORKSHOP Session. In order to capture the attendees' feedback and proposals about the IOLN 2025 action plan in the most efficient way, Heidi's presentation was followed by a workshop during which, using a carousel method, members rotated stations and provided inputs to three topics, i. e. 1) **Campaigns**, 2) **Regional needs**, and 3) **Capacity building** (Fig. 12).

A summary of the discussions had for each of the breakout sessions is given below.



Fig. 10. Micheal Officer provides an overview of the education programme of Cuan Beo during his presentation.



Fig. 11. Dave Wall showing one of the indicator species of climate change as emerged thanks to the citizen science data collected through the EYS! survey.

1. Campaigns

IOLN AGM Discussion Group – Suggestions

Potential Funders / Members

- DECC and other gov. departments / agencies that need Ocean Literacy to achieve their goals.
- Fishing Coops
- Watersports Clubs
- National Lottery Grant
- Arts Council
- Anchor sports institutions e.g. GAA, Swim Ireland
- Irish Environmental Network
- LAWPRO
- Corporate Bodies / Companies (e.g. Sky funds seagrass restoration)
- Industry Sponsorship (Corporate Social Responsibility) e.g. XOcean, Oyster Farms etc.
- Failte Ireland
- Famous Benefactors e.g Niall Horan!
- A Funding Consortium
- Offshore Wind Energy Companies

Campaign Ideas

- Output for Radio & TV
- Include output as Gaeilge
- Involve EZ Films (involved in *Where the Wild Geese Go*)
- Capture previous outputs from Social Science projects
- Focus also on the Midlands, not just the Irish coastline, as all areas interact with the Ocean
- Design Modules on Ocean literacy for Third Level, also on Citizen Science.
- Target Transition Year in Secondary schools
- Target Local Authorities
- Target Tourist Boards
- Would media companies do work such as vox-pops pro-bono?
- Ask media students to do vox-pops etc as part of their studies / experience.
- Tie IOLN into elements of the Wild Atlantic Way or other Tourist routes.
- Design a campaign to attract buy-in from individuals/organisations that do not know about IOLN.
- How do we engage those in their teens up to their 30's, as this group seems to disengage from marine conservation/awareness.



Fig. 12. Dave Wall, in his role as IOLN Director and Chair of the IOLN Working Group 4, moderated the discussion about what campaigns the IOLN should focus on in 2025.

2. Regional needs

- Event in Donegal needed for coastal communities who used to have a strong connection with the ocean that got lost in the last couple of decades.
- A regional need expressed by **The Sea Collective** is resources about the ocean/ocean literacy as Gaeilge (not many available at the moment, and the ones that are available are considered translated by Google Translate). Clean Coasts got resourced developed from community groups in Donegal. Bilingual approach is highly effective. It is important for the buy-in of the local communities to speak their same language. IOLN and EmpowerUs are thinking of piloting a bilingual event in Connemara next springtime, if successful it can be repeated in other parts of the country.
- Organise a Sea Week in Donegal (“**Seachtain Na Farraige**”) with different themes/focuses every day. The Maharees Conservation Association do already something similar using Heritage Week.
- Not Fair Seas directly, but the **Basking Shark Group** had a lot of engagement in Donegal. An event in Tory Island on basking sharks, which could be used as hook to involve the communities. Water activities (canoeing, kayaking, swimming) should be considered too, great heritage up in Donegal.
- When they started their work, The Sea Collective had planned over a few years to work from primary schools onwards to finally engage adults, but they started being called by community centres to organise events after only a few months, showing that there is a thirst for this type of events.
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- Informal celebrations can be an effective way to get more people involved. Trish Murphy from the Inishowen Rivers Trust organises events to celebrate water.
- Some Clean Coasts groups are very proactive to promote ocean literacy: how can we get this attitude more widespread?
- Support for communities to write funding applications, perhaps via providing templates. **Clean Coasts** have grants for communities, but the application rate is low, probably because groups feel overwhelmed by application process. A solution could be to showcase case studies of community groups who have been successful in securing funding, as e. g. the Maharees Conservation Association and the Tomhaggard Clean Coasts group who won an ESB community grant for their turtle project. Other ideas are community trainings, as the ones organised by LAWPRO. Fair Seas organised an event in Mayo led by a facilitator (Lindsay Hawkins). Identify community groups who are particularly good at something and showcase their work to other communities. A marine equivalent of the “Communities caring for water” conference organised by LAWPRO and The Rivers Trust could be organised, but it might be difficult for communities to attend. It could be possible to organise such an event online, but Clean Coasts have noticed that communities likely would not join either due to online events fatigue.
- It could also be useful to provide communities with a list of facilitators for events to support them in the organisation.

- Dundalk bay is one of the most important coastal areas in Ireland from an ecological perspective, but the local community may not be so aware of that, so a celebration of the bay could help filling this gap.
- **Mairead Sullivan** (who has very recently joined the newly established MSP team at the Marine Institute) attended the regional meeting in Wexford and found that it was more focused on having stakeholders talking to each other than to engage the community.
- Caoimhe from An Taisce pointed out the need to include more fun/relaxed activities into regional events to attract more people and engage them on more serious topics as e. g. MSP, MPAs, etc. To organise such events, the IOLN could link with what exists already, e. g. the Vitamin Sea festival in Tramore. Events like this have the potential to involve a large part of the local community, however they involve the need for the IOLN to have strong local bonds. Another idea would be for the IOLN to link with projects with a local focus, as e. g. the library project for Bioeconomy Week carried out by Majbritt, which could allow to collected voices and points of view from outside the immediate pool of stakeholders.
- What is the focus of the regional meetings? Regional events can have different themes/focuses/purposes, but the suggestions above re celebrations can be considered more for campaigns.
- Pint of Science type of events – ocean talks in pubs can represent a first level of engagement for people who do not have a strong connection with the ocean.
- Is there a way to have follow ups on regional meetings happened previously to avoid the impression that the IOLN work is just a one-time show? A way could be by facilitating conversations among stakeholders.
- The IOLN should aim to get involved in the ~800 consultation events that are expected to take place during Dave Whyte's LIFE project on MPAs (see p 7 above)?
- A potential plan for the IOLN could be to collaborate in parallel with Dave Whyte/MaREI on the LIFE project, and with Mairead from the MSP group at the Marine Institute who is developing educational/outreach resources targeting big events as e. g. the Young Scientist event. This is generally an expensive event (to rent a booth may cost ~ €3,000), but partnering up could solve that.
- Need to check feedback from regional meetings to build plans for next year's regional meetings.

3. Capacity building

The discussions regarding training and capacity building activities for IOLN members centred around 4 different themes: 1) Developing resources and structures as incentives of membership; 2) Leveraging the current membership; 3) Some possible training themes; 4) Events to target/tag onto. These are expanded below. Note: the outcomes of this session will be considered by IOLN's Training WG and will be used to plan engagements in 2025.

Resources and structures as incentives of membership

This theme was all about creating resources that would be useful to members and could form part of the package offered to new members. Ideas included:

- An IOLN members WhatsApp group or email list as a peer-to-peer resource. Where members can ask each other questions, advertise events, communicate funding calls, and look for partners.
- Repository – develop a repository of Irish specific projects for case studies to use as resource and for legacy.
- Current resource library – make this member access only?

Leveraging the membership

Here we discussed how there should be a focus on peer to peer exchange. IOLN's members are already particularly good at certain things. Exchange could be made mutually beneficial – one member gets to present their work or their research for uptake; others get to learn.

- Fieldtrips to showcase good work of members – link these to meetings/regional events – “site visits before or after lunch”
- Peer to peer learning opportunities (webinars/in person)
- Themed parts of meetings that act as learning sessions - “considerations if you want to x/ if you are going to y”.
- Mentorship role for members by members

Training themes

This summarises any specific trainings that members mentioned would be useful. We will do a survey in the new year to identify more.

- Simple online training (maybe by Emma McKinley) update on the thinking of Ocean Literacy itself. What it is, how it has evolved, how to plug into ocean dialogues etc. Members admitted that mostly their knowledge of ocean literacy is confined to one or a handful of topics. It would be no harm to get an overall view.
- (more long term when IOLN has more funding from membership) – 1 really interesting training per year offered free (1st come 1st served) to members like dive/snorkel surveying, dune restoration, etc. This would double as citizen science opportunities and also act as a major selling point for “why to become a member”
- Use of AI for ocean literacy – e.g. Interspecies assembly method
- Grant funding training (signposting to people who already do this well or use IOLN members)

Events to tag onto

Members pointed out that many people are funded to attend larger events, so by tagging onto these it makes it easier for some to travel, and to get a crowd if we wanted to integrate an outreach event at the same time.

- **European Maritime Day** for an IOLN training event?
- EPA conference
- World Ocean Day events around the country (June)
- Other?

Close / Focal Scoir. In conclusion, the IOLN team (Noirin Burke, David Murphy) thanked all the members for their participation. We are looking forward to building on the momentum in 2025, with the appointment of a full time IOLN Officer, greater support from the sponsors/members, a range of regional meetings in each province and the evolution of the Working groups. Ni neart go cur le Chéile!

The **Annual General meeting** of the IOLN followed at 3.30 pm, chaired by David Murphy.

The Chair presented a summary report on the year 2024, covering the structures that have been put in place, membership base, Advisory board, and strategic plan. There has been a strong level of interest in the role of IOLN Executive Officer and it is hoped that an appointment will be confirmed this month.

A Summary of the financial position was presented, and it was agreed that Accounts would be prepared for the year to 31 December 2024.

A motion to appoint Molony Farrell as Accountants for IOLN was agreed.

Elections were held and the following Directors were elected for 2025: David Murphy, Noirin Burke, Dave Wall, Heidi McIlvenna, and Micheál O Cinneide.

As there was no further business, the AGM concluded at 4.00 pm,

List of attendees at IOLN Annual Meeting, 2024

1. Annette Wilson, ERINN Innovation
2. Aoibhín Ryan, Leave No Trace Ireland
3. Brian Parle
4. Caoimhe O'Brien Moran, An Taisce
5. Cat McCann, The Sea Collective
6. Chris Bean, Dublin Institute for Advanced Studies (DIAS)
7. Dave Wall, National Biodiversity Data Centre and IOLN Director
8. David McCann, Leave No Trace Ireland
9. David Murphy, ERINN Innovation and IOLN Director
10. David Whyte, MaREI UCC
11. Donal Griffin, Fair Seas
12. Donnchadh Kindlon, ERINN Innovation
13. Éanna Gallagher, Local Authority Waters Programme
14. Friederike Eimer, An Taisce
15. Gillian Mills
16. Heidi McIlvenny, IOLN Director
17. Karly Korte, Dublin City University
18. Kate Burns, Kate Burns Consulting
19. Liane Costello, Clean Coasts
20. Mairead Sullivan, Marine Institute
21. Majbritt Bolton-Warberg, Marine Institute
22. Maria Vittoria Marra, Galway Atlantaquaria
23. Michael Officer, CuanBeo
24. Micheál Ó Cinnéide, IOLN Director
25. Noirin Burke, Galway Atlantaquaria and IOLN Director
26. Olive Heffernan, author
27. Ruth Leeney, University College Dublin
28. Sorcha Byrne, Maritime Area Regulatory Authority
29. Suzie Cahn, Shifting Tides