



26th ERVO Annual Meeting
10th - 13th of June 2024
Vigo, Spain

Monday 10th of June 2024

18:30 -19:30:	Registration "Sea Museum"
19:30- 22:00:	Welcome reception "Sea Museum"

Tuesday 11th of June 2024

8:30	ERVO Annual Meeting registration - Posters installation	
8:55	Practical arrangements of Day 1	J. Dañobeitia / J. Sorribas
9:00	Opening 26 th ERVO and round Table	R. Codiglia / All
9:10	Introduction 26 th ERVO meeting	R. Codiglia
9:15	Review and approval of ERVO 2023 minutes	A. Fitzgerald
9.20	Eurofleets AISBL Phase 1: Presentation of Mission, budget, and statutes. Request for feedback	A. Fitzgerald

Theme 1: Delegates Reports of Activity

9:30	Managing an aging ship: The past, present, and future of RV Cefas Endeavour	J. Parker
9:50	Experiences from testing and operating RV GAIA BLU - innovative management and new scientific discoveries	L. Evangelista
10:05	RV Laura Bassi's latest Antarctic expedition	R. Codiglia

10:20 Coffee break & national update posters

Theme 2: RV builds, Modifications and performance

10.45	The future 'NSH' (mid-shore ship) of the French Oceanographic Fleet	V. Martin
11:00	Revamping the ICT infrastructure of r/v Laura Bassi	M. Jurcev
11:15	Design and construction of MBARI's new research vessel <i>David Packard</i>	W. Moon / I. Goñi
11:30	New RV for Northern Ireland	H. Ove Holmoy
11:45	Update on the New Dutch Research Fleet	Z. Erdem
12:00	Winch and controls specific features for subsea research working	Ferri
12:15	Best practices for installing acoustic equipment to minimize noise on RV's	L. Kanschat
12:30	A decade of success in Ocean Exploration using a modern Spanish research oceanographic fleet	J. Sorribas
12.45	RV Kaharoa II	G. Foothead



KONGSBERG



13:00	Lunch + Group Picture
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14:00	Kongsberg EM2042: Improving integrations and use of multibeam echo sounders on research vessels	J.M. Cordero
14:15	Sustainable Fishery with new compact Handling Technology	T. Ringstad
14:30	Owner / operators perspective on AFBI's new ship design development.	P. Jeffares

Theme 3: Manning, Safety and Training

14:45	P&O Maritime approach to safety management	B. Kavanagh
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Theme 4: Cooperation, Communications and Outreach.

15:00	United Nations Biodiversity of Areas Beyond National Jurisdiction Treaty or BBNJ Treaty – impacts for RV operators	E. Darlington
15:15	Holland One to Holland. An example of successful interoperability	A. Fitzgerald
15:30	“Euro RVTEC” Co-operation between European RV Techs.	M. Paredes
15:45	Protocols and procedures against harassment onboard the Spanish RV fleet.	N. Roma

16:00	Coffee break & national update posters
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16:20	Polarin Update	A. Fitzgerald
16:35	AQUARIUS Update	A. Fitzgerald
16:50	IRSO UPDATE	G. Foothead
17:00	End Day 1	

ERVO Official networking Dinner at Restaurant “Rectoral de Cobres”

18:30(Depart)	Travel to the Dinner Venue by <u>BOAT</u> we kindly ask to stay at embarkation point at <u>18:30</u> (LINK to Location). Otherwise, you should go by yourself 30 min by car.
19:30	Bus from disembarkation point dock to Rectoral de Cobres
20:00- 00:00	Dinner
23:50	Bus back to hotels. We booked a couple of buses to take the people to the main hotels of ERVO



Wednesday 12th of June 2024

9:00	Opening and practical arrangements of Day 2	R. Codiglia J. Dañobeitia
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Theme 5: Support & Operations to Ocean Observing System. Remote Operations & underwater Vehicles

9:05	Enabling multi-robot collaboration by integrating the Sonardyne Mini Ranger 2 system with the Robotic Operating System	D.Rigg
9:20	Remote Enablement - The Future of Marine Research (Live demonstration)	Harvest Technology Group/Voyager IP

Theme 6: Energy Efficiency, alternative energy sources & zero impact

9:45	Technologies for the research vessel of tomorrow	T.Arvid
10.00	Over the horizon and under ice, advances in MAS from NOC	M. Furlong

10:20 Coffee break & national update posters

Theme 7: Shipbuilding innovation and sustainability

11:00	Replacing steel wire for coring and CTU with fiber solutions – Lightweight, strong and durable	D. Waage Hampidjan Advant
11:15	Vigo as a high-performance Hub in the construction of Research Vessels. Current status, opportunities and future perspectives for 21st century research vessel	J. Dañobeitia J. Sorribas
11:30	Implementation of alternative fuels and decarbonisation technologies in Research Vessels. From requirements definition to ship delivery	C. García
11:45	Ices working group on greening the fleet. Results and update	C. Freudinger
12.00	Hybrid and 100% Electric Propulsion Systems for Oceanographic Vessels	A. Navarro
12:15	Business cooperation to boost innovation in shipbuilding	E.Mallón

12:30 Lunch+Coffee

13:30-16:00 **Special Session Shipyards / Shipowners /Operators. Round Table**
See the details on the next page...

16:00-16:20 **Topics, date & place ERVO 2025 (A. Fitzgerald)**
CLOSING ERVO 2024 (A. Fitzgerald)

16:30-19:00 **Guided Visit to Armon Shipyard**
Bus Transfer (Venue-Shipyard)
19:00 **Spanish wine (Courtesy of Armon Shipyard)**

Thursday 13th of June 2024

11:00 (Bus) Marin Codax Vineyard, Wine testing and tour. Cambados (Pontevedra)



ROUND TABLE:

New Perspectives and opportunities for marine research using new modern multipurpose oceanographic research vessels.

The purpose of this section is to establish solid links between industry, such as shipyards, technology equipment and sensor providers, ship operators, research scientists, in order to create synergies for the benefit of marine research within the framework of the decade of the oceans. Each speaker invited will give a short talk introduction of 7 minutes, then we will establish a dialogue between the round table and the speakers.

- Zero-emission technology for RVs of the future and perspectives. **Santiago Martín**, Armon Shipyard, Spain.
- Augmenting research vessels with advanced sensor and platform solutions – advantages and challenges: **Peer Fietzek**, Kongsberg Discovery, Germany.
- Towards and Alliance of European Research Fleet: sharing knowledge and assets. **Giuseppe Magnifico**, CNR, Italy
- Considerations for new multi-purpose research Vessels? **Aodhan Fitzgerald**, Marine Institute, Ireland,
- Regional Research Vessels challenges in construction (capacity, dimensions, consumptions, etc.) to support UN decade of the oceans. **Jordi Sorribas** CSIC-UTM, Spain.
- Impact on the design of new deep-sea research vessels considering the new sustainable requirements and technologies, by **Luis Santos** Freire Shipyard, Spain
- Near shore marine research with low emission medium size vessels, by **Daniel Rey** CIM, Spain,

Main speakers

- Santiago Martín, Armon Shipyards, Vigo, Spain
- Peer Fietzek, Manager Ocean Science, Kongsberg Discovery, Germany
- Giuseppe Magnifico, Head of Large-Scale Infrastructure in Rome, Italy
- Aodhan Fitzgerald, Vicechair of ERVO, Marine Institute, Galway Ireland
- Jordi Sorribas, Director of UTM-CSIC, Barcelona, Spain
- Luis Santos, Freire Shipyards, Spain
- Daniel Rey, Director of CIM, Vigo, Spain

Moderator

Juanjo Dañobeitia, UTM-CSIC, Spain

