



International Research Ship Operators

Meeting Minutes of the 32nd International Research Ship Operators meeting held at the Grand Chancellor Hotel, Hobart, Tasmania.

Host organisation – CSIRO (Commonwealth Science and Industrial Research Organisation)

Monday 7th October 2019

Workshop Topic - *From Paper to Platform*

An overview of MFP software. Barbara Musso of CSIRO coordinated the workshop, presentations were given on the MFP implementation pathway that CSIRO were undertaking that time. An online demo session was arranged where all participants were able to log on and experiment with the software.

Monday afternoon - Welcome Reception, Government House

After short bus ride from the hotel we arrived at the beautiful grounds of Government House, a fine example of an early Victorian country house in neo-Gothic style and one of the largest of its type in Australia. We were warmly welcomed by the Governor Her Excellency the Honourable Kate Warner and her husband Richard Warner. Drinks and canapes were served in the sumptuous reception room and we were allowed to view some of the other rooms downstairs of this magnificent house that was completed in 1857.

Tuesday 8th October, Meeting Day 1 – Hotel Grand Chancellor, Hobart.

Opening of 32nd IRSO Meeting - Toni Moate, Director - National Collections and Marine Infrastructure, CSIRO, opened the meeting by first acknowledging the traditional custodians of the land on which we were meeting and paid respects to elders past, present and emerging, then welcomed us all to Hobart.

Round the room introductions

Adoption of the 2019 Agenda – Erica Koning invited attendees to put forward any additional agenda items, none given, Agenda was adopted as written and accepted by Bob Houtman, Dennis Nixon (2nd)

Dennis Nixon was acknowledged, this was the 21st IRSO (formerly ISOM) meeting he has attended. His first meeting was 1995, Cape Town.

Review and acceptance of minutes of 2018 IRSO, Barcelona, Spain – No changes to the minutes were proposed, they were accepted by Dennis Nixon, Juha Flinkman (2nd)

Review of IRSO Terms of Reference (ToR) – Invitation given to delegates to review and comment before the close of the meeting. No comments received.

Review of IRSO Website – Doug Russel, UNOLS, gave an update on the IRSO website with additional links to ERVO and OFEG

Meeting Presentations:

Day 1:

- [Welcome to IRSO 2020 \(PDF\)](#) – Nieuwejaar
- [Introduction to the Australian Institute of Marine Science \(PDF\)](#) – Bunday
- [University of Hawai'i Marine Center \(PDF\)](#) – Lopez
- [Woods Hole Oceanographic Institution \(PDF\)](#) – Munier
- [RV Aranda – Life after refit \(PDF\)](#) – Flinkman
- [US Navy Research Facilities Renewal – Building a Lasting Fleet \(PDF\)](#) – Prince
- [Roger Revelle Midlife Refit \(PDF\)](#) – Applegate
- [RV Thuwal – Selecting a shipyard and refit \(PDF\)](#) – Uberti
- [RV Belgica a new RV for Belgium \(PDF\)](#) – Naudts
- [Replacing the research fleet in the Netherlands \(PDF\)](#) – Koning
- [NOAA Fleet Maintenance \(PDF\)](#) – Hann
- [RSV Nuyina Update \(PDF\)](#) – Reeve
- [Canada Update – Increasing Ocean Science Capability \(PDF\)](#) – Vollrath
- [Recent New Builds in China and the Operation of RV Tan Kah Kee \(PDF\)](#) – Wang
- [MarE3 – New institution for JAMSTEC Fleet Operations \(PDF\)](#) – Eguchi
- [Marine Autonomous Systems vs Traditional Oceanographic Research \(PDF\)](#) – Storey
- [PIRIOU Designing and Building an RV \(PDF\)](#) – Bousquet

IRSO 2020 – Per Nieuwejaar joined the meeting via Webex to announce Bergen as the venue for the next meeting.

Day 2:

- [NSF Facilities Update \(PDF\)](#) – Houtman
- [NSF White Paper on Logistics for Ocean Operations \(PDF\)](#) – Dufour
- [Update on Marine Scientific Research \(MSR\) Diplomatic Consent \(PDF\)](#) – David
- [Admiralty Law and Marine Insurance Update \(PDF\)](#) – Nixon
- [Hull Optimization bubbles and resistance \(PDF\)](#) – Fitzgerald
- [ERVO Update of Activities \(PDF\)](#) – Naudts
- [Ship coordination Global Ocean Obs system \(PDF\)](#) – Kramp
- [SOI 2020 Around Australia \(PDF\)](#) – King
- [EUROFLEETS Update \(PDF\)](#) – Fitzgerald
- [French Oceanographic Fleet in the Pacific Ocean \(PDF\)](#) – Peltier
- [Seabed 2030 Project \(PDF\)](#) – Lamarche
- [Current status and prospective of the Chinese Academy of Sciences Fleet \(PDF\)](#) – Diao
- **CSIRO Facilities Tour Tech Talks**
 - [Data Acquisition and Processing Overview \(PDF\)](#) – Hawkes
 - [Hydrochemistry on the RV Investigator \(PDF\)](#) – Ree
 - [MNF Information and Data Centre \(PDF\)](#) Tattersall
 - [GSM Geophysical Survey Mapping \(PDF\)](#) – Vandenbossche

CSIRO facilities tour and tech talks – IRSO members were treated to a tour of the AAD ice breaker *Aurora Australis* and the CSIRO Hobart facilities and workshops. The tours were followed by interesting Tech Talks delivered by CSIRO technicians and staff. The afternoon was enjoyed by all.

Day 3:

- [Philanthropic Ocean Research Vessel Operators Working Group Meeting](#) (PDF) – King
- [EMSO European Large-scale Research Infrastructure](#) (PDF) – Magnifico
- [South African Maritime Safety Authority](#) (PDF) – Calvert
- [Satcom for RVs from GEO to LEO](#) (PDF) – Calvin
- [Staying in the Loop Australian Antarctic Programme](#) (PDF) – Symons
- [Vessel Operations – Greening Ships](#) (PDF) – Abrahams
- [Novel Platform and Efficient Operations](#) (PDF) – Goh
- [Total Worker Health](#) (PDF) – Hann
- [Educator on Board](#) (PDF) – Rae
- [Kongsberg Maritime Technology for Research Vessels](#) (PDF) – Gutowski
- [Developments in Oceanographic Operations with USV](#) (PDF) – West
- [Modernizations of French Oceanographic Fleet](#) (PDF) – Peltier
- [INMARTECH 2020 – Barcelona](#) (PDF)

Closed Session for RV operators only – A short discussion on membership, particularly maintaining a good balance between RV operators and industry membership. It was agreed that any future industry attendees should be invited to the meeting by an existing member, preferably, the recommendation or introduction should be sent via an email to the IRSO Chair. We discussed that new industry members should attend with the intent of informing the members of emerging technologies and to gain a better understanding of the operational requirements of modern research vessels.