

MSI 2012

International Marine and Sub-marine Infrastructures Symposium

November 13-14-15, 2012

IBIS Styles Toulon Congress Center (All Seasons), Toulon (France)

Programme

Tuesday 13th November 2012

10.00 – 10.10 Welcoming address (10')

G rard Riou, Vincent Rigaud (Ifremer Toulon Centre, CETSM)

Workshop 1 Marine Research Infrastructures: towards a sustainable use and a common strategy in Europe

(13th November 10h10-18h20 & 14th November 9h00-15h30)

10.10 – 10.30 Presentation of the symposium: aims and objectives (20')

J.F Masset and J. Binot (Ifremer, France)

10.30 – 12.45 Session 1: Open and transnational access to MRI

Chair: Stefania Sparnocchia (CNR, Italy)

10.30 – 11.30

▪ **Access to research vessels: the EUROFLEETS experience (20')**

Nicole Biebow, Scientific review panel representative (evaluation aspect)

Fiona Grant, Logistic review panel chair (Marine Institute, Ireland)

▪ **Access to ocean engineering facilities: the MARINET experience (20')**

Christophe Maisondieu (Ifremer, France)

Q/A and debate (20')

11.30 – 11.45 Coffee break

11.45 – 12.45

▪ **Access to aquaculture infrastructures: the AQUAEXCEL experience (20')** *Marc Vandeputte (INRA, France)*

▪ **Access to regional RI : the joint Baltic Sea research and development programme (BONUS) (20')**

Andris Andrusaitis (BONUS, Finland)

Q/A and debate (20')

12.45 – 14.00 Lunch

14.00 – 15.40

Session 2: MRI complementary uses for monitoring and research*Chair: Jean François Rolin (Ifremer, France)*

- **Introduction (10')**
Jean-François Rolin (Ifremer, France)
- **Open ocean observation (20')**
Laurent Mortier (LOP/UPMC, France)
- **Coastal & shelf seas observation (20')**
Rodney Forster (CEFAS, United Kingdom)
- **European Ecosystem and Biodiversity Observatory System (20')**
Pim Van Avesaath (NIOZ, the Netherlands)

Q/A and Debate (20')

15.40 – 17.00

Session 3 : Set-up common procurement strategies, develop common business models*Chair: Per Nieuwejaar (IMR, Norway)*

- **Regional research vessels (20')**
TBC
- **Ocean observation new satellites (Jason 3 and Sentinel 3) (20')**
Pierre-Yves Le Traon (Ifremer, France)

Q/A and debate (20')

16.40 – 17.00 Coffee break

17.00 – 18.20

Session 4 : From coordination to integration of distributed MRIs into networks*Chair: Nick Pade (Marine Biological Association, Plymouth, United Kingdom)*

- **EURO-ARGO (the European contribution to Argo program) (20')**
Pierre-Yves Le Traon (Ifremer, France)
- **EMSO (European Multidisciplinary Sea-Floor Observatories) (20')**
Paolo Favali (INGV, Italy)
- **EMBRC (European Marine Biological Resource Center) (20')**
Nick Pade (Marine Biological Association, Plymouth, United Kingdom)

Q/A and debate 20'

19.30 – 21.30

Visit of the European Underwater Technologies Centre - CETSM*Vincent Rigaud/Gérard Riou***Dinner at the Naval Museum (Toulon)**

Wednesday 14th November 2012

10.00 – 12.00

Session 5 : Integration process and industrial partnership: the case of research vessels and underwater vehicles

Chair: Jacques Binot (Ifremer, France)

- **Eurofleets1:** results and recommendations
TBC
- **Eurofleets2:** objectives and roadmap
Dick Schaap (Maris, the Netherlands)
- **The role of public private partnerships (PPPs)**
Per Nieuwejaar (IMR, Norway)

Q/A and debate

12.00 – 13.15

Lunch

13.15 – 15.45

Session 6 : Workshop 1 final discussion: reports from the chairs and debate

Co-chairs : Nicole Biebow (AWI, Germany) and Maurice Heral (ANR, France)

15.30 – 15.45 Coffee break

Workshop 2 Technological challenges, innovation integration and perspectives

(14th November 15h45-18h30 & 15th November 9h00-12h15)

15.45 – 16.00

Aims and objectives of the workshop (15')

16.00 – 18.00

Session 7: Technical cooperation: interoperability and common projects

Session 7.1: Technological innovation / Systems

- **HOV review (30')**
Will Khonen (Hydrospace group, USA)
- **Glider fleet operation and a new solar glider concept (30')**
Joaquin Tintore (SOCIB, Spain) Laurent Beguery (CNRS-INSU, France)
- **New HROV concepts: New scheme of underwater interventions in constrained conditions (30')**
Ewen Raugel, Gerrit Meineck, Andy Bowen (Ifremer, France/Marum, Germany/WHOI, USA)
- **New needs and tools for mineral resources exploration, assessment and exploitation (30')**
Alain Fidani (Technip/Cybernetix, France), Yves Fouquet (Ifremer, France)

Q/A and debate

Dinner

Thursday 15th November 2012

9.00 – 12.15 **Session 7.2: Technological innovation / SubSystems**

9.00 – 10.00

- **Optical mosaicking and mapping with AUVs and ROVs (30')**
Rafael Garcia (University of Girona, Spain)
- **Optical imaging and 3D vision for ROV (30')**
Volker Ratmeyer, Pierre Leon (MARUM, Germany/Ifremer, France)

10.00 - 10.15 Coffee Break

10.15 – 12.15

- **Advanced robotics for multi-vehicle cooperation (30')**
David Lane (HWU, United Kingdom)
- **High level control in autonomous systems for ocean science (30')**
Ricardo Martin (Porto University, Portugal/MBARI, USA)
- **Acoustic underwater communication and networking (30')**
Robert Been (CMRE/ NURC, Italy)
- **A new SAS deep tow system and advances in acoustic imaging (30')**
Laurent Sauvebois (IXSEA, France)

12.15 – 13.15 **Session 8 : Lessons learned**

- **Underwater systems risk management (30')**
Mario Brito (NOC, United Kingdom)
- **CURE Education and Research oriented marine infrastructure project (30')**
Zoran Vukic (Laboratory for Underwater Systems and Technologies, LabUST, Zagreb University)

13.15 – 14.30 Lunch

14.30 – 15.30 **Session 9: Marine and submarine infrastructure SWOT (Strengths, Weaknesses, Opportunities, Threats)**

Chair: Jacques Binot (Ifremer, France) and Jean-François Masset (CLORA, Belgium)

- **Economical model of fleets – presentation (20')**
Olivier Lefort (Mixed Service Unit (UMS) 'French ocean research vessel fleet')
- **10 years of exploitation of the ANTARES telescope- Feedbacks and contribution to the Km3 road map (20')**
Paschal Coyle (CNRS IN2P3, France)
- **Dissemination of scientific, pedagogic and technological results, valorization and public outreach (20')**

Debate - Prospective for marine and submarine European infrastructures and next steps

Jacques Binot (Ifremer/Eurofleets, France) and Jean-François Masset (Ifremer/CLORA, France/Belgium)

15.30 End of MSI 2012 Symposium