



Photo: Gérard Momplot

SHORT REPORT: FRENCH-NORWEGIAN MARINE SEMINAR

BERGEN, JUNE 25 – 26, 2013

Background:

The agreement on Research, Technology and Innovation signed in July 2008 by the Ministers of Research from Norway and France, is every second year followed up by a bilateral meeting. The meeting held in Oslo 2012 recommended the French-Norwegian Foundation for Science and Industrial Development, in cooperation with relevant institutions, to organize a bilateral seminar focusing on marine research. Both countries participate actively in JPI Ocean - A Joint Programming Initiative to meet the Grand Challenges regarding European Seas and Oceans, showing the interest both countries have within this field.

Organization and objectives

Together with Pôle Mer Bretagne, the French Embassy in Norway, the Institut Universitaire Européen de la Mer, the French Ministry of Higher Education and Research on the French side, and the Institute of Marine Research (IMR), the International Research Institut of Stavanger (IRIS) and the Norwegian Embassy in France on the Norwegian side, the Foundation therefor decided to organize a marine seminar in Bergen on June 25 and 26, 2013, devoted to

- Sensors in marine environment: biological sensors, physical sensors
- Sustainable fishing, seafood safety and processing technology

The main objectives were to

- Strengthen the French-Norwegian network in this domain,
- Identify new R&D axes to consider in the perspective of HORIZON2020,
- Identify potential cooperation projects, bilateral or with other European partners.

The seminar



Photo: Kjartan Mæstad

The seminar was hosted by Institute of Marine Research (IMR) in Bergen. Jean-Marc Rives, Ambassador of France to Norway, officially opened the meeting, followed by Tore Nepstad, General Director of IMR.

Jean-Marc Rives, Ambassador of France to Norway (left)



Photo: Gérard Momplot

Tore Nepstad, General Director of IMR (left)



Photo: Gérard Momplot

Merethe Flatseth, IMR, informed about the goals and the objectives of JIP OCEANS. The Foundation presented updated possibilities of funding for French-Norwegian R&D projects, and of the recently established French funding agency BPIFrance.

Merethe Flatseth, JIP Oceans (left)

Altogether 29 short, scientific presentations were held during the meeting, giving the participants a good overview of the priorities and fields of interest of the participant. Several topics for project cooperation were launched. All the presentations are available on the web-pages of the Foundation.

A dinner was organized at IMR during the evening, which allowed the participants to exchange more informal information.

Participants

Around 55 participants from the public and private sector in France and in Norway attended the meeting, cf enclosed list of participants.

Norwegian side : Total E&P Norge, BiotaTools, Sintef Fisheries, IMR, IRIS, Akvaplan-Niva, EcoPack, Xyleminc (ex-Andeera Instrumentation), University of Bergen, Nansen Environmental and Remote sensing center, Niva, Nofima, Biota Guard, Uni Research

French side : Ifremer, Pôle Mer, Laberca-Oniris, Université d'Evry, Université Paul Sabatier (Toulouse), SailingOne OceanoScientifique, Institut universitaire européen de la mer (Brest), Université de Lille 1, ENTPE (Lyon), Université de Bretagne occidentale, Université de Lyon 1, Le Drezen, Photonics Bretagne, HOCER.

Feedback and comments

No questionnaire has been sent to the participants to evaluate their opinion about the seminar. However, several comments were given during and after the meeting:

Organisation and format of meeting

- Good balance between presentation, discussion and social part
- Cooperation is a matter of people: this kind of seminar is an excellent tool.

General feedback from the participants

- French and Norwegian have excellent competencies in the marine field. This seminar has been very timely and useful to map ongoing cooperation and identify potential cooperation.
- The participation of industries at this kind of meeting is very interesting, and could hopefully lead to more cooperation with French and Norwegian industrials although problem of competition between companies.
- New potential cooperation has already emerged, on a bilateral level but also on a national level

Specific technical focus pointed out

- **Sensors thematic:** Very good overview on marine technology. It has shown some exploding new research areas, and some parameters not yet explored. A question to address: how to manage all these data collected, what is the value for decision making process? The challenge is also to give high value to these data.
- **Seafood thematic:** very useful information, potential cooperation has emerged (kelp); need for end-users in the projects consortium has been noted.

Funding

The French-Norwegian Foundation and the French Embassy in Norway contributed to fund the seminar. IMR contributed by offering their meeting facilities. The Foundation allocated 20.000 Euro (160.000 NOK) to fund the seminar, out of which 136.209 NOK were spent.

| WKS FNS 12-03 Seminar Ocean | | | |
|--------------------------------------|---------------|---|---------------|
| | NOK | | NOK |
| Allocation FFN Norway | 96 000 | Allocation FFN France | 64 000 |
| Meals at IMR | 65 347 | Invoice Pôle Mer Bretagne (Travel grants to French participants) | 63 016 |
| Hotel accomodation, 3 persons | 7 846 | | |
| Total | 73 193 | Total France | 63 016 |
| Total cost covered by the Foundation | | 136 209 | NOK |

Outcome

Since the seminar, Sintef Fisheries and Pole Mer Bretagne have planned to meet during the fall 2013 (with support from the Asgard programme). Contacts are still active between participants from both countries and the Secretariat of the Foundation is following up potential cooperation. At least two proposals for funding will be submitted to Foundation in October 2013. In addition, some proposals are expected to be submitted to calls from RCN programs during the autumn.

General conclusion

The seminar was successful as it allowed the participants to get short, but updated information within their field of interest. New contacts were established, and some potential project ideas were identified. The social part of the seminar was also important. The number of participants allowed people to get a good overview and to have the time to exchange information outside the ordinary program.

Scientific committee :

Erlend Moksness, Institute of Marine Research (Norway),
Jan Erik Stiansen, Institute of Marine Research (Norway)
Dominique Durand, IRIS (Norway)
Thierry Baussant, IRIS (Norway)
Marie-Marguerite Bourbigot
Yves-Marie Paulet, Groupe Mer, Institut Universitaire Européen de la Mer (France),

Organizing committee and contact persons

French-Norwegian Foundation

Isabelle Morelon, Randi A. Basmadjian,

French Embassy in Norway

François-Xavier Lannuzel

PROGRAMME FRENCH-NORWEGIAN MARINE SEMINAR

BERGEN, JUNE 25 – 26, 2013

Venue: Directorate of Fisheries, Strandgaten 229, Bergen

| Tuesday June 25, 2013 | | |
|--|---|---|
| SENSORS IN THE MARINE ENVIRONMENT | | |
| 09:30 - 10:00 | Coffee – Registration | |
| 10:00 - 10:15 | Opening session Welcome by Tore Nepstad, IMR General Director Allocution by S.E.M. Jean-Marc Rives, Ambassador of France in Norway | |
| 10.15 – 10.30 | JPI Oceans objectives | Merethe Flatseth, IMR (Norway) |
| 10:30 – 12:00 | (I) PHYSICAL SENSORS Chairperson, Maguy Bourbigot, Pôle Mer Bretagne | |
| | Scientific presentations | |
| 10:30 – 10:45 | Oceanographic instrumentation from the user perspective | Henrik Sjøiland, IMR (Norway) |
| 10:45 – 11:00 | Optical components in oceanographic instrumentation | Denis Tregoat, Photonics Bretagne (France) |
| 11:00 – 11:15 | Questions | |
| | Presentations of relevant institutions, companies, projects | |
| 11:15 – 11:25 | Optical sensor for water quality monitoring | Bertrand Vergne, HOCER (France) |
| 11:25 – 11:35 | Presentation of SAILBOUY- a new way to collect maritime data www.sailbouy.no | Geir Pedersen, CMR (Norway) |
| 11:35 – 11:45 | Use of flexible multiparameter platforms to collect data for characterization of the marine environment in real time or for post-processing | Emilie Dorgeville, Aanderaa Data Instruments AS |
| 11:45 – 12:00 | Questions | |
| 12:00 - 13:00 | Lunch | |
| 13:00-14:10 | (I) PHYSICAL SENSORS (continued) | |
| | Presentations of relevant institutions, companies, projects (cont.) | |
| 13:00 – 13:10 | Reference buoy as a necessary tool for monitoring key parameters in aquaculture | Jardar Maatje NORTEK AS (Norway) |
| 13:10 – 13:20 | Implementing oceanographic sensors on small innovative ships of opportunity | Margot Choquer, SailingOne (France) |
| 13:20 – 13:30 | Next Generation long-term Observatory | Svein Østerhus, UNI RESEARCH AS (Norway) |
| 13:30 – 13:40 | Physical sensor and ferrybox integrated systems | Emanuele Reggiani, NIVA |

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| | | (Norway) |
| 13:40 – 14:10 | Questions – Discussion | |
| 14:10 – 17:15 | (II) – BIOSENSORS Chairman, Dominique Durand, IRIS | |
| | Scientific presentations | |
| 14:10 – 14:25 | Application to the detection of harmful algae blooms | Laurent Delauney, IFREMER (France) |
| 14:25 – 14:40 | Passive acoustics in marine ecology | Lucia di Orio, IUEM (France) |
| 14:40 – 14:55 | Application to the detection and assessment of offshore oil exploitation | Thierry Baussant, IRIS (Norway) |
| 14:55 – 15:10 | MolluSCAN eyes are watching out for us | Jean-Charles Massabuau, Université Bordeaux 1, CNRS (France) |
| 15:10 – 15:25 | Questions | |
| 15:25 – 15:40 | Coffee Break | |
| | Presentations of relevant institutions, companies, projects | |
| 15:40 - 15:50 | Development of whole-cell biosensor based on marine algae for environmental monitoring at sea. | Claude Durrieu, ENTPE, Université de Lyon (France) Thierry Baussant, IRIS (Norway) |
| 15:50 – 16:00 | Environmental monitoring with 3rd generation whole animal biosensors | Odd Ketil Andersen, BIOTATOOLS AS (Norway) |
| 16:00 – 16:10 | A single-DNA chip for the ultra sensitive and specific detection of substances | Sébastien Chevalier, Université Paul Sabatier, Toulouse, CNRS (France) |
| 16:10 – 16:20 | Sensor Array – collection of data from biosensors and physical sensors | Eirik Sønneland, BIOTA GUARD AS (Norway) |
| 16:20 – 16:30 | Environmental monitoring with sensors in the Arctic | Lionel Camus, Akvaplan- Niva |
| 16:30 – 17:00 | Questions – Discussion | |
| 17:00 – 17:15 | Possibilities for funding of projects | FFN French and Norwegian Secretariats |
| 18:30 – 19.30 | Apéritif (IMR, Nordnesgt. 55) | |
| 19:30 | Dinner (IMR, Nordnesgt. 55) | |

Wednesday June 26, 2013
SUSTAINABLE HARVEST, SEAFOOD SAFETY AND PROCESSING TECHNOLOGY

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|----------------------|--|---|
| 08:30 – 10:20 | SUSTAINABLE HARVEST Chairman, Erlend Moksness, IMR | |
| | Scientific presentations | |
| 08:30 – 08:45 | CRIPS – a Norwegian industry-research cooperation model to develop sustainable fishing technology | John Willy Valdemarsen, IMR (Norway) |
| 08:45 – 09:00 | Potential in Norwegian Kelp exploitation and related research | Vivian Husa, IMR (Norway) |
| 09:00 – 09:15 | A brief review of recent projects in the field of sustainable fishing and labeled by the Pôle Mer Bretagne | Yvon Morizur, Pôle Mer Bretagne (France) |
| 09:15 – 09:30 | Exploitation and management of kelps in Brittany | Martial Laurans Ifremer (France) |
| 09:30 – 09:40 | Questions | |
| | Presentations of relevant institutions, companies, projects | |
| 09:40 – 09:50 | Fishing with traps : some conclusions from the project ORCASAV | Jean Roullot, Le Drezen (France) |
| 09:50 – 10:00 | Antibiotic resistance in aquaculture, use of yeast | Djamel Drider, Université de Lille 1 (France) |
| 10:00 – 10:10 | SISQUONOR - Spatial Information System for aQUaculture in Normandy and Norway | Anne-Ansnes Hageberg, CMR |
| 10:10 – 10:25 | Questions – Discussion | |
| 10:25 – 10:35 | Break | |

10:35 – 11:15

SEAFOOD SAFETY

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|---------------|---|--|
| | Scientific presentations | |
| 10:35-10:50 | Seafood safety – current status and future challenges | Anne-Katrine Lundebye Haldorsen NIFES (Norway) |
| 10:50-11:05 | Ensuring the chemical safety of seafood products through innovative analytical strategies | Ronan CARIOU, National reference laboratory LABERCA, Studies on residues and contaminants in food (France) |
| 11:05 – 11:15 | Questions – Discussion | |

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| 11:15 – 12:10 | SEAFOOD PROCESSING TECHNOLOGY | |
| | Scientific presentations | |
| 11:15 – 11:30 | Innovative technologies for seafood processing | Bjørn Tore Rotabakk, NOFIMA |
| 11:30 – 11:45 | Automatic fish handling system onboard | Hanne Digre, SINTEF Fisheries and Aquaculture |
| 11:45 – 12:00 | Marine by-products upgrading : the French biorefinery strategy | Jean-Pascal Bergé, Ifremer |
| 12:00 – 12:15 | Questions – Discussions | |
| 12:15 – 12:45 | Closing remarks | |
| 12:45 – 13:45 | Lunch | |
| | End of the seminar | |

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