



STB Meeting, Neully-sur-seine, Feb 2013

In this issue

- Editorial
- Making Progress
- News out of Brussels
- News out of Neully-sur-Seine
- News out of La Spezia
- Publications
- Upcoming Events

Publications

Technical Publications

CMRE-FR-2013-001

Pallotta, G., Vespe, M., Bryan, K. Traffic Route Extraction and Anomaly Detection (TREAD): vessel pattern knowledge discovery and exploitation for maritime situational awareness.

CMRE-MR-2013-003

Goldhahn, R., Kemna, S., Vermeij, A. Autonomous vehicle mission configuration at the CMRE using MOOS-IvP

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Publications



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Upcoming Events

- STB Strategy & Policy Format
La Spezia, 19 Mar
- STB Executive Format
La Spezia, 20-21 Mar



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EDITORIAL BY THE CHIEF SCIENTIST

Dear all,

When you will read this newsletter, all of us will be preparing the March meeting of the Science and Technology Board (STB), thereby completing our first cycle of STB meetings.

It seems to me things are getting shape, the commitment of all of you providing the necessary drive and power.

I look forward to meeting you in La Spezia, the home base of the CMRE, to continue building the bright future of NATO Science & Technology.

**MGen Albert Husniaux,
NATO Chief Scientist**

Making Progress

5 Feb - Staff-level meeting with EDA R&T Directorate

EDA R&T Directorate and NATO STO staffs met on the 5th February to exchange detail of processes and outline programmes, in order to ensure mutual awareness of programmes.

The meeting was extremely cordial and both sides were keen to explore ways of working together as far as is permitted by the institutional arrangements.

STO Peacetime Establishment Approval Process

On 15 February, the Military Committee approved the ISPE which has been sent to the NATO Council for notation. The manning process to fill the Mil Posts has started and the recruitment process to hire Civ Staff will follow soon.

Maritime S&T Business Plan

On 15 February, the Maritime S&T Business Plan was forwarded to the Defence Policy and Planning Committee for notation.

Operational Research and Analysis Study

The report of the ORA Study Team was forwarded

to the Defence Policy and Planning Committee for notation on 19 February.

US Navy's CNO-SSG Information Exchange

On 20 February, a team from the US Navy's Chief of Naval Operations (CNO) Strategic Studies Group (SSG) XXXII from Newport, Rhode Island visited CMRE. Their goal is to address the challenges of maintaining the US Navy's undersea dominance out to the year 2030. Programme Managers from the Centre briefed the team on recent advances in each of their areas and the information will be integrated into the CNO-SSG report due out in the summer.

STB in Priorities and Plans Format 27 Feb – 1 Mar

The CSO hosted the first STB Priorities and Plans Format in the new STO structure. During this planning meeting all NATO S&T Stakeholders had the opportunity to clarify their S&T Activities looking for synergies and coordination opportunities. The recommendations made will be brought to the STB in Executive Session organized during the third week of March in La Spezia.



MGen Albert Husniaux, NATO Chief Scientist

News out of the NATO HQ (Brussels)

its meeting on 19-20th February. The briefing was focused on the NATO S&T Strategy and its implementation. The presentation was well received by the NIAG and was a good occasion to reinforce the strong links between the two bodies.

14 Feb - JCGCBRND Meeting

Mr. Nieuwenhuizen, HFM Panel PoC to the Joint Capability Group on CBRND (under the NAAG), provided a briefing, coordinated with the OCS, on STO activities in the CBRND domain, confirming the good level of cooperation achieved.

19 Feb - NIAG Meeting

The NATO Chief Scientist gave a briefing to the NATO Industrial Advisory Group (NIAG) at



STO-ACT Supply-Demand Relationship Study Team

01 - 02 Feb - STO-ACT Supply-Demand Relationship Study Team

A STO Study Team led by CSO Director René LaRose, met with representatives from ACT for a 2-day workshop in the U.S. to address the STO-ACT Supply-Demand relationship. The objective of the meeting was to build common definitions, describe and assess the current process, and recommend changes to the current process if needed. In addition, as directed by the Board, the team identified a pilot project in the modeling and simulation domain to test the new approach. The key factors identified to improve the process were a clearly articulated

20-21 Feb - Strategic Foresight Workshop

The NATO Chief Scientist attended the fourth workshop of the ACT's Strategic Foresight Analysis, held in Copenhagen, whose theme was "Ensuring a Mission Ready Alliance". The aim of the initiative is to assess the future security environment, determine its implications, including technology challenges, and describe broad strategic operating requirements and security implications for the long-term.

News out of Neuilly-sur-Seine

expectation, continuous engagement, and a well defined exploitation pathway.

25 Feb - Panel Executives Meeting

On Monday 25 February, the L2CC kicked off the planning session week. This year, a particularly strong focus on cross-panel activities were explored which included the CMRE. The CSO Panel Executives initiated a novel "pre-assessment approach" to develop potential collaborative activities for consideration which resulted in more than two dozen Task Groups or Exploratory Teams being identified for development at the upcoming Panel Business Meetings. Activities under consideration include: Defense Technologies for Counter-Terrorism, Naval Platform Protection in the Infrared, Continuing Airworthiness for Ageing Aircraft Systems, and Modeling and Simulation Support for Cyber Defense.



Engineers from CMRE prepare the WaveGlider for deployment in the ASW Exercise Proud Manta off the coast of Sicily

05 Feb - Recognized Environmental Picture 2010

A significant paper was presented on 5 February that showed the progress/improvements using the CMRE glider fleet for assimilation of temperature and salinity into numerical ocean models to improve forecasting skill. The technique developed using RECOGNIZED ENVIRONMENTAL PICTURE 2010 (REP10) experimental data is now being applied to evaluate the fleet of gliders that was deployed as discreet rapid environmental assessment units in Exercise NOBLE MARINER 12 off the coast of France.

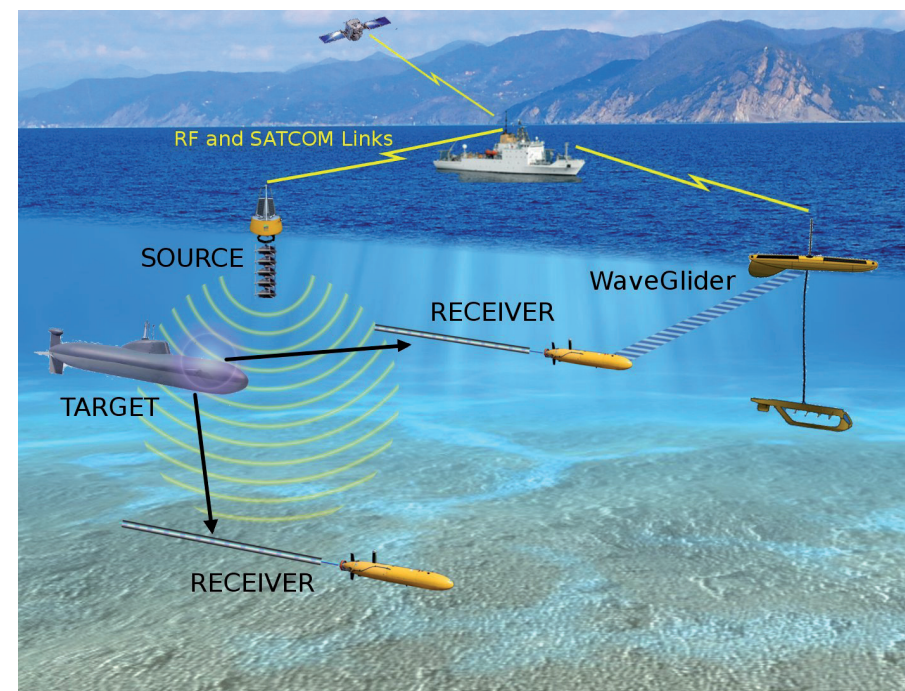
News out of La Spezia

23 Feb - 6 Mar - Exercise Proud Manta

In February, CMRE participated in Exercise PROUD MANTA 13. The CMRE component was very successful with their autonomous multistatic ASW network detecting and tracking Spanish and Greek submarines conducting ISR in the vicinity of Capo Passero (Sicily). This was the first demonstration of the new WaveGlider as a communications gateway between the underwater environment and satellite/RF links.

Invitation to participate in the MCM Exercise

The CMRE was invited by Commander, U.S. Naval Forces Central Command, U.S. FIFTH Fleet, Combined Maritime Forces to participate in an International Mine Countermeasures (MCM) Exercise to be conducted from 6 to 30 May 2013 in the FIFTH Fleet Area of Responsibility. The purpose of this exercise is to foster interoperability, enhance MCM operational capabilities, and strengthen worldwide partnerships.



System concept for the Cooperative Antisubmarine Warfare Programme, two Ocean Explorer AUVs with towed hydrophone arrays received reflected acoustic signals from a submarine. The AUVs use underwater acoustic communications to transmit tracks via a WaveGlider with RF links.

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