



Dr. René LaRose, C.S.O. Director

## News out of Neuilly-sur-Seine

the participation of more than 20 space experts from various NATO countries and Australia. The activity was developed by the SCI Panel as part of its mandate as the designated lead for formulating and guiding a strategic program of work within the NATO Community to address the Space Capability Preservation LTCR. This meeting provided the opportunity for both NATO operators and space service providers to explore the implications of degraded or denied space services to critical Alliance command and combat functions. The results of the meeting will be readily available for dissemination to all Alliance member Nations and to other NATO entities for exploitation.

### Future Concepts and Tools for Cyber Defence

The Information Systems & Technology Exploratory Team-066 met to explore the domain of Future Concepts and Tools for Cyber Defence using the NATO's Cyber Defence capability breakdown as a foundation of its work. At the end the Team came up with a whitepaper outlining the gaps, the priorities, the most promising Cyber Defence concepts & methodologies and tools to be researched by subsequent IST working groups. Recommendations were made to guide future R&D in this domain.

### 13-15 March - 2013 Technical Course HFM-235

The Technical Course HFM-235, led by Wg Cdr Timothy Greenish(UK), had 22 speakers from 9 countries (BE, CA, FR, GE, IT, NE, SWE, UK and US) discussing differing approaches to Aero medical Risk Assessment. The advantages of various approaches were compared with the aim of recommending best practices for Flight Surgeons in establishing effective and safe flight medicine. The event was hosted at Ramstein Air Force Base (Germany) in conjunction with the European Flight Surgeons' Conference. Videos from the Technical Course are available on the STO website.

### 25-28 March - Specialist Meeting "A NATO Day without Space"

The SCI Panel held its SCI-238 Specialist Meeting "A NATO Day without Space" at the NATO School, from 25 to 28 March. The SM boasted

## Publications

### Technical Publications

CMRE-MR-2013-004

Dr Ronald Kessel - NATO Harbour Protection Table-Top Exercise (HPT2E): Final Report



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STB Meeting, La Spezia, March 2013

## In this issue

- Editorial
- Making Progress
- News out of Brussels
- News out of Neuilly-sur-Seine
- News out of La Spezia
- Publications

### EDITORIAL BY THE CHIEF SCIENTIST

Dear all,

Just a few weeks ago we met in La Spezia, hosted in a superb way by the CMRE, for a very dense and successful STB meeting. The decision sheets which you have received, reflect that that we took many important decisions.

In the mean time, as this newsletter illustrates, the implementation of the decisions has already started.

I encourage all of you to continue delivering to these decisions and to the transition plan, thereby contributing to building our bright future.

**MGen Albert Husniaux,**  
NATO Chief Scientist

## Making Progress

### Defence Planning capability Survey 2013

The Defence Policy and Planning Committee (DPPC(R)) agreed on the content of the Defence Planning Capability Survey (DPCS) 2013. The DPCS is the primary information gathering tool of the Defence Planning Process for the Alliance, seeking information on national plans and policies, national inventory of military forces, any relevant non-military capabilities and national financial plans. For the second time, this survey also comprises a S&T Section, including this time a richer set of questions regarding the national S&T capabilities and priorities. Replies to the Survey have to be provided by Nations, through

their Defence Planners community by July 2013. This survey is an opportunity to connect national defence planners with Defence S&T managers.

### STB Executive week in La Spezia 18-22 Mar

The CMRE hosted the first STB Strategy & Policy followed by an Executive session. During the Strategy & Policy meeting all NATO S&T Stakeholders had the opportunity to clarify their views on S&T Requirements and Activities. Together with the recommendations from the Priorities and Plans Format the outcome of the meeting was brought to the STB in Executive Session, to provide guidance to the STO.



MGen Albert Husniaux, STB Chairman, visiting NRV Alliance

## News out of the NATO HQ (Brussels)

S&T Coordination Officer, LtC P. Dotoli provided a briefing on STO activities on enabling technologies for Soldier Systems, highlighting several topics for further collaboration and confirming the high level of cooperation already achieved.

### 14 March - NIAG Workshop on Future Fighting Vehicle Platforms

The NIAG held a workshop on Future Fighting Vehicle Platforms at NATO HQ, in response to a request from the Land Capability Group on Land Engagement (under the NAAG). Several Industrial representatives from NATO and Partner countries participated presenting their current and future studies on the topic. The S&T Coordination Officer presented a summary of the relevant STO studies in that domain, confirming the established approach of collaboration between STO and NIAG, focused on seeking synergies on topics of common interest.

### 29 March - International Conference on Air & Space Power (ICAP)

The NATO Chief Scientist attended the ICAP held in Istanbul on 28-29 March, delivering a briefing on "International Cooperation in Science & Technology: A NATO perspective". The Conference showcased the attendance of high level speakers and audience and allowed fruitful discussions on a topic of great interest.

### 4-6 March - SPSP-ISEG Meeting

A meeting of the Independent Scientific Evaluation Group (ISEG) was held from the 4th to 6th of March at NATO HQ. The ISEG main task is to provide independent scientific advice on the proposed new projects to be undertaken under the aegis of the Science for Peace and Security Program (SPSP), NATO's main policy tool for enhancing cooperation and dialogue with all Partners, based on civil science and innovation. The SPS Programme offers grants for collaboration projects, workshops and training involving scientists from NATO member states and partner countries. The collaboration between STO and the SPS Programme is constantly increasing, and two STO representatives are regular ISEG members.

### 7 March - Science and Technology Defence Colloquium in the IRSD

The Chief Scientist participated in the S&T Defence Colloquium organized by the Royal Higher Institute for Defence in Brussels.

### 6-8 March - LCGDSS Meeting

The Land Capability Group on Dismounted Soldier Systems (under the NAAG), held its meeting from the 6th to 8th of March and had a session focused on national R&D activities in that domain. The



NRV Alliance

### Exercise Proud Manta

Completion of Exercise Proud Manta, NATO's largest ASW exercise. CMRE participated with the NRV ALLIANCE, 2 AUVs, and the WaveGlider, performing detections in the shallow water off Capo Passero, Sicily during the ISR free play serials with very positive results. In addition the Multistatic Tactical Planning Aid (MSTPA) tool was deployed to NAS Sigonella, where it provided serial reconstruction based on unit commander SITREPS. CMRE Management participated in the Media Day and Hot Washup in Augusta, where the CMRE results were demonstrated to ACOS COMSUBNATO, COS COMSUBSOUTH and to the commanding officers of the participating units.

### Exercise Dynamic Move

Participation in Exercise Dynamic Move, an MCM exercise hosted annually at the NMW COE "EGUERMIN" in Ostend, Belgium. This was the first exercise conducted under the auspices of the newly formed COM MARCOM (Northwood). The CMRE had an analysis function, with new and existing

## News out of La Spezia

CMRE Planning and evaluation tools in use.

### STB Meeting

The CMRE enjoyed welcoming the STB to La Spezia for the first time and relished the opportunity to showcase its activities and its capabilities. During an evening reception onboard NRV ALLIANCE, many Board members took the opportunity to tour the ship and discuss its operations.

### Shallow Water Continuous Active Sonar Joint Research Project

Representatives from CAN, GBR, ITA, and USA met with the CMRE team to discuss common interests in establishing a JRP or Multinational Approaches project at CMRE to address the suitability of Continuous Active Sonar (CAS) for shallow water operations. A draft document outlining the technical approach, the contributions from the participants, the time frame (2014-2016) and trial schedule was generated and is currently being circulated amongst the participants.

### Ligurian Sea LIDAR & Optical Measurements Experiment (LLOMEX)

During the LLOMEX'13 sea trial, a demonstration of the use of LIDAR (Light Detection and Ranging) for environmental knowledge and optical communications was given. This demonstration included data acquisition for 3D optical model development and validation (an EC project, OSS2015). Participants were ITA, FRA, TUR, USA.

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