

# news

## IM Awards at IMEMTS' 10

### IMEMG Award

During the IMEMTS Conference in Munich, Germany, the IMEMG Board took the opportunity to recognise the significant contribution of Dr Christian Spyckerelle of Eurencro, France to the development of Insensitive Munitions and in particular the development of reduced sensitivity explosives.

The award was presented by Roger Swanson to NAMMO, Norway and GD-OTS, USA for the 120mm IM HE-T tank round

### MSIAC Technical Award

The award was presented by Roger Swanson to NAMMO, Norway and GD-OTS, USA for the 120mm IM HE-T tank round.

The 120 mm IM HE-T round includes a new insensitive melt cast explosive utilising a mixture of DNAN, NTO and HMX, and a LOVA propellant. The munitions IM signature has also been reduced by the incorporation of a plastic liner between the fuse and the warhead nose to reduce the confinement of the high explosive in an accidental, and a container with plastic windows to vent the propellant in case of an unplanned ignition inside the container.



## IMEMG Membership continues to grow



**OTO MELARA SpA**, based in La Spezia, Italy joined IMEMG last year.

The company is active in naval, land and air weapon systems with state-of-the-art technologies.

Oto Melara has production and R&D capabilities ranging from turret weapon systems and naval guns to missile launchers, from conventional to guided ammunition, and from combat vehicles and artillery to anti-aircraft systems and UGVs.



**BAYERN-CHEMIE GmbH** a member of the MBDA group also joined IMEMG last year.

Since early 1990, BAYERN-CHEMIE has been involved in the Insensitive Munitions requirements through several programmes.

Taking into account threat and hazard analysis, we concentrate on a global approach of Insensitive Munitions assessment.

Starting from energetic material behaviour in small scale testing, we emphasise the role of internal arrangement and then identify the response protocol for each type of stimulus.

Numerical analyses and statistical approaches have been developed through correlation of small scale and full scale testing.

This allows simulation and prediction of solid rocket motor IM characteristics.

Different techniques, such as mitigation, passive or active venting are extended to the development of a totally new successful rocket motor internal arrangement.



**Saab Dynamics AB** is the 20th company to join the organisation.

Saab is a significant supplier of airborne missile systems with striking power and precision. The group's offer include, for instance, Beyond Visual Range Air-to-Air Missiles, Anti-Ship Missile Systems and Ground-Based Air Defence Missile Systems.



As a result of the recent acquisition of SEI SpA by Rheinmetall GmbH, SEI SpA name has changed into RWM Italia SpA. The new company concentrates on the defence business only.



## NEW! Expert Working Groups

Five working groups which bring together experts from the member companies, are now working on specific issues, such as:

- ▶ Harmonisation and improvements to the test procedure for Fast Cook-Off (STANAG 4240 FCO)

- ▶ The effects of Ageing on IM Response or on the properties of energetic materials which could influence IM response

- ▶ Cost & Benefit Analysis, to offer a support in the building phase of an IM signature specification.

- ▶ Hazard Assessment and Classification
  - Harmonisation of Gap Test criteria for hazard classification of rocket propellants
  - Harmonisation of international test procedures and acceptance criteria for Shaped Charge Jet Attack.

- ▶ A review of computer models to aid the design and assessment of IM performance

More about these issues in the next newsletter.

## IMEMGnews

INSENSITIVE MUNITIONS EUROPEAN MANUFACTURERS GROUP



### IMEMG

Registered office  
Le Diamant A  
92909 Paris la Défense cedex - France

<http://www.imemg.org>  
Subscription: upon request at  
[imemg@imemg.org](mailto:imemg@imemg.org)