



NORTH ATLANTIC TREATY ORGANISATION
RESEARCH AND TECHNOLOGY ORGANISATION



Announces a Working Session on

Data Gathering, Sensors, and Integration of Sensors For Application to Munitions Health Management

On behalf of the RTO Task Group AVT-160, we are pleased to announce a special Working Session on topics of sensors and data gathering technologies used for assessing the condition of munitions. The session will be held 14-16 October 2008 at Concordia University in Montreal, Canada. A multi-day event has been arranged to allow collaboration between experts in the fields of sensor development and integration, data gathering methodologies, and munitions development, as well as current vendors of sensor technologies. The Working Session will provide opportunities for the sensor vendor and development community to exhibit their latest technologies and to learn more about the requirements of the growing field of munitions health management.

Persons interested in attending and/or presenting at this session should contact the organizers immediately.

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Session Organized by the **Munitions Health Management Task Group (AVT-160)**,

Applied Vehicle Technology (AVT) Panel

In conjunction with **Concordia University, Montreal, Canada.**

To be held

Montreal, Canada

14 – 16 October 2008

**This session is open to everyone, But
Attendees must register with AVT-160 Organizers before attending.**

Working Session

Data Gathering, Sensors, and Integration of Sensors for Application to Munitions Health Management

Objective

Provide a discussion forum for data gathering and sensing technologies to monitor parameters used in service life assessment of munitions. Topics specifically include devices currently available and those in development, as well as collaborative opportunities between users and vendors, who can discuss requirements and integration methodologies.

It is expected that the Working Session will consist of three main parts. The first part will be presentations, which begin with a general overview of the requirements and parameters of interest to the munitions community followed by open presentations by sensor developers, vendors, and system integrators. The second main part of the session will be similar to a trade show, where sensor developers and vendors are available for informal one-on-one and one-on-many discussions, demonstrations, and exhibits. The third portion of the session will be focused on addressing the most common sensor technology needs, outlining a roadmap for deployment and integration and a roadmap for sensor size and power issues.

Methods of data collection, amount of data, data accuracy, and long term device stability are key areas of discussion for this Working Session

Output

It is expected that the output of this Working Session will be a thorough understanding of the sensors available currently, a roadmap of developing sensor technologies, and a better understanding within the sensor community of the requirements of munitions health management. An interim report will be issued compiling the discussions of the Working Session and the presentations given.

Future AVT-160 Working Session

Spring 2010 – Munitions Health Management: Impact on Costs, Logistics, and Safety

A discussion forum for assessing the cost of munitions health management, including impact on acquisition, life cycle management, demilitarization, integration of loggers vs. embedded systems, spiral implementation, safety, and warfighting effectiveness.

Munitions Health Management Task Group AVT-160

Background

Munitions Health Management (MHM; often combined with inventory management) receives increasing attention in several NATO countries. It is addressed by several NATO activities within AVT and at Allied Command of Transformation (ACT), as well as the recent issuance of a STANAG on Radio Frequency Identification. The importance of MHM has been recognized by the AVT Strategic Committee, which included this topic in its guidance for action to the AVT Technical Committees.

Apart from munitions, health monitoring covers a wide range of applications, including engines, structural materials, medical and food supply, etc. Because of the recent progress, AVT-160 was established to help identify and facilitate methods to exchange information, publicize recent results and challenges, and attract experts to the NATO activities.

Participation in AVT-160

The Task Group is made up of a set of core members representing Canada, France, Germany, The Netherlands, the United Kingdom, and the United States. Members guide the Task Group's activities, set priorities and topics for Special Working Sessions and prepare the Task Group's final report.

AVT-160 Co-Chairmen

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