



Munition Safety Awards Ceremony

Insensitive Munitions & Energetic Materials Technology Symposium

18th – 20th October 2022 - Indianapolis, IN, USA

Christelle Collet

on behalf of Chuck Denham
(MSIAC Project Manager)



MSIAC has received 1 nomination for **Career Achievement:**

- Ken Tomasello

And 2 nominations for **Technical Achievement:**

- The US Defense Ammunition Center (DAC)
- Development of an IM aircraft bomb model Mk82 General Purpose (Emploi Général) Reduced Vulnerability (Vulnérabilité Réduite) - EGVR

MUNITION SAFETY AWARDS



Nominee for Career Achievement

Ken Tomasello (nominated by Joe LiVolsi and Cynthia Manns)

Major contributions to the IM community:

- Beginning in 1978, Mr. Tomasello was involved in development of **new energetic materials**.
- He received a Special Act award in 1983 for his work on **low vulnerability (LOVA) propellants**.
- From 2001, Mr. Tomasello was a Senior Scientist at the NOSSA and Program Manager for the **IMAD Program**.
- Mr. Tomasello has represented the United States to her NATO allies as chairman of the Conference of National Armaments Directors (CNAD) **Ammunition Safety Group (CASG) Munition Systems Design and Assessment (AC326 Subgroup B)**.
- Mr. Tomasello developed and launched the **Insensitive Munitions Technology Tool (IMT2)**, a web based relational database on the Defense Science and Technology Knowledge Online web site.
- Mr. Tomasello specifically has assisted the Navy and US DOD munitions community through forming, writing the instruction for, and launching the Navy's **Munition Reaction Evaluation Board (MREB)**.
- He also authored and distributed the Navy's **policy on active and passive reaction mitigation devices** used in munitions.
- Mr. Ken Tomasello, retired in December 2021 from the US NOSSA after **43 years** of exemplary and dedicated service in **explosives safety** and its relationship to **Insensitive Munitions**.
- Since his retirement, Mr. Tomasello has continued to support the IMAD Program and his successors in the NOSSA IM Office with mentorship and the benefits of his long experience.

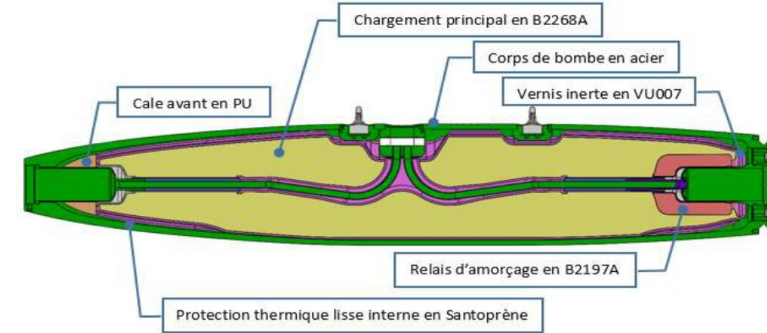
Nominees for Technical Achievement

Defense Ammunition Center (DAC) – Team Lead: Mr. Keith Brailsford (nominated by Ms. Theresa A. Smith)

- The Defense Ammunition Center is the premier explosives safety knowledge center for the United States Army and provides direct support to the Office of the Deputy Assistant Secretary of the Army Installations, Energy and Environment.
- Significant contributions:
 - Risk Management Division: After a division reorganization and a subsequent improvement in the workflow process, **a reduction by 25% for FY21** was identified in processing time for site plans and construction reviews from initial receipt to obtaining Army Approval.
 - Explosives Safety Test Program: Thanks to a multi-year design review, modeling and simulation effort in the ECMs of the Miesau Army Depot, the **NEW was increased of 75% from 25-30K NEW to 100-125K NEW**. This effort will likely save millions of dollars in unnecessary new construction/renovation cost and allow Miesau Army Depot to continue to fulfill its critical ammunition support mission in the European Theater.
 - Engineering Division supported a **shipment of a high visibility Iron Dome Defense System-Army (IDDS-A) Magazine** loaded with Tamir missiles. The IDDS-A supports the need for an Interim Cruise Missile Defense Capability as identified in the John McCain Act (NDAA2019).
 - The DAC provided critical certification training on Ammunition Logistics, Surveillance, and Explosives Safety to **208,267 students**, which encompassed all Services, contractors, and international partners to enhance readiness of forces.

Development of an IM aircraft bomb model Mk82 General Purpose (Emploi Général) Reduced Vulnerability (Vulnérabilité Réduite) (nominated by Mrs. Valerie Vincent)

- IM design efforts present on this bomb:
 - Use of explosive B2268A, made up of more than 50% NTO (less sensitive);
 - Presence of venting devices located in the central and rear parts of the bomb;
 - Presence of a dedicated stiffener plug in the fuze well to defeat HFI
- DGA granted a MURAT ** Label for this munition



IM Assessment of the bare munition

STANAG 4439 Requirements	FH	SH	BI	SR	FI-L	FI-H	SCJI
NR							
V	●		●		●	●	○
IV		●		●			
III							
II							
I							

- Full compliance with STANAG 4439
- : Assessment by Full-scale test
- : Assessment by analysis and/or read-across with other configurations

IM Assessment in logistic configuration

STANAG 4439 Requirements	FH	SH	BI	SR	FI-L	FI-H	SCJI
NR							
V	●	●	○		○	○	●
IV				●			
III							
II							
I							

**Development of an IM aircraft bomb model Mk82
General Purpose (Emploi Général) Reduced
Vulnerability (Vulnérabilité Réduite)**
(nominated by Ms. Valerie Vincent)

Team members:

- **Fabio Sgarzi**
RWMI
- **Gianpietro Roccatagliata**
RWMI
- **Bruno Nouguez**
EURENCO
- **Philippe Chabin**
EURENCO
- **Laurent Lafargue**
DGA
- **Kévin Roussel**
DGA
- **Joffrey Duchon**
DGA - IM Committee
- **Jérôme L'Hostis**
DGA - IM Committee
- **Frank Dupuis**
DGA - IM Committee
- **Fabien Chassagne**
DGA - IM Committee
- **Valérie Vincent**
DGA - IM Committee

Career Achievement:

- Ken Tomasello



Technical Achievement:

- The team “Development of an IM aircraft bomb model Mk82 General Purpose (Emploi Général) Reduced Vulnerability (Vulnérabilité Réduite)”