

# Technology Committee Report

## National Association of Ordnance Contractors

Monthly Update

November 20, 2024



[www.naoc.org](http://www.naoc.org)



# M2S2 Stand Down

- ❑ Tuesday, Dec. 10 – Thursday Dec. 12
- ❑ NAOC Annual Meeting at Embassy Suites  
December 10
  - ❖ <https://www.naoc.org/2024-annual-meeting>
- ❑ M2S2 at Redstone Arsenal
  - ❖ M2S2 Draft Agenda and Info  
<https://whova.com/web/WAnIH2nFCXznVi%407UYjGsfWNQeitTmSBprYry8KDHc%3D/>
  - ❖ Register for entry into Redstone Arsenal  
within 10 days of the event

# M2S2 Stand Down

Time Slot	Topics		
Tuesday AM	DoD only Plenary		
Tuesday PM	Welcome / Open Plenary		
Wednesday 1	Remedial Responses		
Wednesday 2	Remedial Investigations	New and Improved Guidance	Legal
Wednesday 3	MEC Risk Assessment	Contracting Challenges	Navy Case Studies
Wednesday 4	Feasibility Studies	GIS	Safety Lessons Learned
Thursday 1	Say What We Mean	DAGCAP & ESTCP Updates	Communication and Scheduling
Thursday 2	Strategies for Eating an Elephant	All About MR-QAPPs	Thinking About Cleanup Costs
Thursday 3	Response Complete	Technology Grab Bag	To Sample or Not To Sample
Thursday 4	And Now a Word from Our Regulators	The Root of the Problem	MILCON MEC Support

# USACE - NAOC M2G2 Call

- ❑ Recording of the three 2024 M2G2 calls are available on youtube.com
  - ❖ 2/14 - <https://youtu.be/-siHBM5xDXE> [youtu.be]
  - ❖ 5/8 - <https://youtu.be/UUpjsrRk4lk>
  - ❖ 9/25 - <https://youtu.be/oE98PKoDRjl>
- ❑ Topic Suggestions for 2025 M2G2 calls?
  - ❖ Send to Craig M., Harry W. or Jeffrey L.

# Oasis Montaj / UX-Analyze

- ❑ UX-Analyze version 2024.1 is now DAGCAP validated
- ❑ Upcoming Training: <https://events.seequent.com/>

# DOD TOI Library Additions

- ❑ In 2023 AGC data was collected over inert munitions to add them to the DOD TOI library
- ❑ The contractor preparing those data for addition to the library is 90% complete
- ❑ DAGCAP plans to incorporate the new items into the DOD TOI library and issue a new version
- ❑ If you need to include these items in a site-specific library immediately, contact your government geophysicist and they can work with DAGCAP to get the data to you.



# DOD TOI Library Additions

M5 30lb Frag Bomb, 1918	M30, 3.5-in Rocket, WP
M306 57mm 1945	M29A2 3.5-in Rocket, Heat Practice
M60 105mm Gas, 1943	M7A3 2.36-in Anti-Tank Practice
M83 Bomblet, 1945	M83 Bomblet
M63 37mm HE	Fuze, Booster Charge M20
M130 Fuze for M83	MKII M2 3-in projectile HE, w/ cartridge
Fuze Bomb Butterfly, Mechtme MTZ42, German Submunition Fuze	MKII M2 3-in projectile HE, w/o cartridge
M38 Base-Detonating Fuze for 37mm practice	MKII Hand Grenade, practice, w/o pin
Base-Detonating Fuze for 37mm HE	MKII Hand Grenade, practice, w/ pin
Varigun Flare	MKII Hand Grenade, practice, w/o fuse
M83 Fragmentation Bomb Dispensible Munitions (open)	81mm Mortar, smoke, M57
Mine, Anti-tank, M1A1	4.2-in Mortar, HE, M3
3-lb Zinc Practice Bomb	4-in Stokes Chemical Mortar w/ cutout
3-lb Zinc Practice Bomb (no tail fin)	20mm M97A1 HEI
A1-90 Fuze	13mm Projectile Gyro Jet
M57 Point-Detonating Fuze	Mortar Fuze PD M25
57mm Cartridge Case T4	106mm Recoiless HE M394A1 w/ casing
75mm Cartidge M5A1	106mm Recoiless Heat T-76
M1 105mm	M23A2 57mm Armor Piercing HE w/cartridge
2.36" Rocket Heat, M6	Grenade pin and handle
White Star Parachute, signal, M17	Fuze, Bomb aerial, VT / Prox, USN, MK43, MOD0, ca 1980
25mm HE w/cartridge, MK1, Mod 1	105mm Projectile HE M1
25mm HE, MK1, Mod 1	Bomb, Chemical, 30 lbs, M46
Bomb, Fragmentation, 10-lb	Bomb, Chemical, M1. 30 lbs., US, ca 1923
M48A2 Point-Detonating Fuze	Cartridge, Mortar, Livens Projector, Chemical
A185 Point-Detonating Fuze	Grenade, Hand, Fragmenation, M24, German
M1 Anti-tank Mine Fuze	Cartridge, W.P. Smoke, Howitzer Round, with fuze, M60, U.S., w/ cartridge
M48 57mm w/cartridge	Cartridge, W.P. Smoke, Howitzer Round, with fuze, M60, U.S., w/o cartridge
2.36-in Fragmentation Rocket	HE 105mm M1 projectile
M7A1 2.36-in Heat Practice	Barrage Rocket, HE, Experimental, US Army, T37, 7.2", WWII, "HedgeHog"
Biological Bomblet with piezoelectric fuze E61R4	Ordnance, Missile, Rocket, Wgr.(Werfgrenate) 150mm, German, 1945
M83 Fragmentation Bomb Dispensible Munitions (closed)	

# SERDP/ESTCP

- ❑ MR August IPR – August 12-13
  - ❖ Alex Kostera and Brandon Puttroff attended virtually to represent the NAOC Technology Committee
- ❑ MR October IPR – October 29-30
  - ❖ Jeffrey Leberfinger attended
- ❑ MR January IPR – January 13-15
- ❑ Are there critical needs in Munitions Response which SERDP/ESTCP should address? – Contact John Jackson



# SAGEEP/MRM 2025

- ❑ Venue: Hilton Downtown Denver
- ❑ Dates: April 13-17, 2025
- ❑ Abstract submissions open – due December 16, 2024



# SAGEEP/MRM 2025

## Munitions Response Sessions

Perspectives on Munitions Response

DAGCAP - Project / Program Lessons Learned

Risk Assessment for Explosives Hazards

Applications for UAVs in Munitions Projects

Site Applications/Case Studies

Innovative Applications of Geophysics on MMRP Projects

Underwater Methods for MEC Detection and Classification

Robotic Applications to MR

Emerging Geophysical Sensors

Alternative Positioning Systems

Munitions Response Operations and Safety- Exclusion zone reduction with AGC

Data Usability Assessments

Munition Constituent Investigations

Analog Geophysics

Disposal Trench / OBOD (i.e. non firing range) Geophysics

International Demining and UXO

MMRP Cost estimating

Feasibility Studies- Building Alternatives

Geophysics in Extreme/Difficult Environments

Remedial Action Objectives

Root Cause Analyses

Remedial Design (Case Studies, Data needs)

Contracting Lessons Learned

# Miscellaneous Topics 1

- ❑ Geometrics is working on MM2x2 validation for One-pass classification
- ❑ Draft QSR 3.0 for NAOC review around December M2S2
- ❑ MR-QAPP Toolkit Module 2 has been available for over a year. EDQW will be looking for feedback and suggestions for improvement from NAOC
  - ❖ Send feedback to [Harry.Wagner@WestonSolutions.com](mailto:Harry.Wagner@WestonSolutions.com)
  - ❖ Shawn Corcoran will be presenting on MR-QAPP issues at the M2S2 and has asked NAOC member companies to let him know about issues they have encountered with modules 1 or 2

# Miscellaneous Topics 2

- ❑ Preliminary characterization critical density selection
  - ❖ EMCX plans to draft a white paper describing how to select critical density for preliminary characterization
  - ❖ The white paper will go to IDQTF; when and how that white paper will be issued is TBD
- ❑ PWS template – USACE has been working on a template, but that effort has become a lower priority
- ❑ Annual NAOC sponsorships are still available [link](#)
- ❑ Next Technology Committee Call – December 18, 2024

# Discussion Topics

- ❑ Possible future discussion topics:
  - ❖ Software Validation – is there a way NAOC could speed up the software validation process?
  - ❖ Defining SRA boundaries
  - ❖ What constitutes a size mismatch when reviewing dig results?
  - ❖ Defining inaccessible areas including steep slopes
  - ❖ Separating RAs into two contract actions, phase 1 AGC and phase 2 intrusive
  - ❖ Insert your favorite topic of interest here by emailing [craig.murray@parsons.us](mailto:craig.murray@parsons.us) or [harry.wagner@WestonSolutions.com](mailto:harry.wagner@WestonSolutions.com)



# Technology Committee Contact

## QUESTIONS?

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