Technology Committee Report National Association of Ordnance Contractors

Board of Directors Meeting December 5th, 2017





Committee Members (63)

Jeff Leberfinger, PIKA - Chair
Craig Murray, Parsons – Deputy Chair
David Bell, TetraTech
Tim Deignan, HGL
Brian Brunette, AECOM
Steve Stacy, ARCADIS
Darrel Hall, CH2MHill
Mike McGuire, EA Engineering
Kent Boler, Matrix Design Group
John Allan, NAEVA Geophysics
John Breznick, NAEVA Geophysics
Allison Paski, NAEVA Geophysics
Mark Howard, NAEVA Geophysics
Bill Rottner, Alpine
Steve Saville, CH2MHill
Colin Kennedy, Buffalo
Kevin Kingdon, Black Tusk
James Stuby, ERT
Jeff Sabol, Kemron
Ben Konshak, GSI
Heesoo Chung, Indepth
Rob Mecarini, Alpine
Wendy Church, Pika
Boban Stojanovic, FPM

Darren Mortimer, Geosoft
Dean Keiswetter, Acorn SI
Erin Atkinson, TetraTech
Mike Warminsky, GSI
Al Crandall, USA
Ryan Steigerwalt, Weston
Brian Junck, Arcadis
Tom King, Weston Solutions
Brian Hecker, InDepth
Sandra Takata, APTIM
Max Zelenevich, Battelle
Terry Northcutt, Timberline
Andy Gascho, Gilbane
Raul Fonda, TetraTech
Jeff Gamey, TetraTech
John Williams, Weston
Josh Jarnie, Arcadis
Elise Goggin, TetraTech
Greg Schultz, White River
Mike Tambroni, EA
Greg Abrams, Weston
Cheryl Gannon, AECOM

Dennis Mills, EXI Brian Guthrie, Weston Bill Doll, TetraTech Eric North, HDR Garrick Marcoux, AECOM Harry Wagner, AECOM John McCormick, ECM Jon Miller, White River Andreas Kothleitner, AECOM Lynelle Brode, TPMC Matt Barner, TetraTech Nick Odlum, Geometrics Bart Hoekstra, Geometrics Nick Valleau, Geosoft

- Raul Fonda, HDR
- Mac Reed AECOM
- □ Steve Hodges, Zapata



Technology Committee Discussion Topics

- Committee Conference Calls
- SERDP-ESTCP In-Progress Reviews (IPRs)
- UXOCOE Info Request
- DoD Advanced Geophysical Classification Accreditation Program (DAGCAP) Support
- Supporting BOD and Committees



Technology Committee Committee Conference Calls

- 9 Committee Conference Calls
 - ✤ January 25th (41 attendees)
 - March 2nd (28 attendees)
 - May 18th (28 attendees)
 - April 12th (30 attendees)
 - June 14th (26 attendees)
 - ✤ July 26th (21 attendees)
 - September 7th (28 attendees)
 - October 5th (26 attendees)
 - November 9th (28 attendees)
- Discussed DAGCAP updates,UX Analyze and MM 2 x 2 updates, ESTCP/SERDP IPR Meetings, Webinars, and support of other NAOC Committees

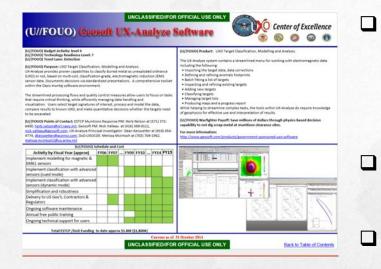


IPR Meetings

- Winter IPR meeting February 28th
- □ Spring IPR meeting May 9th, 10th, 11th
 - Projects include topics on:
 - Underwater Munitions Burial and Transport Models
 - Munition Depth Penetration Modeling
 - Underwater Munition Demolition Technologies
 - Acoustic/Sonar for Underwater Munitions
- Agenda, Presentations, and project summaries uploaded to committee FTP site.
- □ Agenda, presentations, and notes will be posted to NAOC Technology Website.
- □ SERDP ESTCP Technical Symposium November 28th 30th, 2017.
 - Approximately 1000 attendees Many NAOC representatives



UXOCOE Info Request



- UXOCOE requested innovative and new MMRP technologies for their FY 17 annual report from NAOC companies
- Provided similar info in FY 14 and FY16 report.
 - Submitted info from White River Technologies, Geonics, and Geosoft on October 16th for their report



DAGCAP Program Support

Supported DAGCAP Root Cause Analysis Training

- DAGCAP Root Cause Analysis training for NAOC was held March 13, 2017 at the A2LA facility in Frederick, Maryland.
- The class was geared for anyone who would be working on root cause analysis for DAGCAP projects including PMs, Project and QC Geophysicists, and DAGACP quality managers
- EDQW and DoD came up with 3 or 4 likely technical scenarios where root cause would be needed on an AGC project and the class worked through the root cause for those scenarios and then discuss them with the class.
- □ Their were 29 NAOC attendees representing 23 NAOC firms.



DAGCAP Accreditation

Organizations Accredited to Perform Advanced Geophysical Classification

AcornSI and NAEVA Joint Venture, LLC (AN JV) 2928 South Buchanan Street, Suite C-1 Arlington, VA 22206 Accrediting Body: ANAB Terms of validation: 03/29/2017 through 03/29/2019

APTIM FEDERAL SERVICES LLC 2410 Cherahala Blvd. Knoxville, TN 37932 Accrediting Body: A2LA Terms of validation: 09/28/2017 through 09/28/2019

ARCADIS U.S., INC. 2101 L. St. NW, Suite 200 Washington, D.C. 20037 Accrediting Body: A2LA Terms of validation: 08/15/2017 through 10/31/2019

Black Tusk Geophysics 1755 West Broadway, Suite 401 Vancouver, BC Canada Accrediting Body: A2LA Terms of validation: 7/13/2017 through 7/31/2019.

CH2M Hill, Inc. 2411 Dulles corner Park, Suite 500 Herndon, VA 20171 Accrediting Body: ANAB Terms of validation: 05/03/2017 through 05/03/2019

Parsons Corporation 1776 Lincoln Street, Suite 600 Denver, CO 80203 Accrediting Body: A2LA Terms of validation: 03/13/2017 through 05/31/2019

Tetra Tech EC, Inc. 350 Indiana Street Golden, CO 80401 Accrediting Body: A2LA Terms of validation: 08/9/2017 through 09/30/2019 TPMC-WRT LLC JV accredited November 30th

Eight (8) DAGCAP approved firms as of 12/5

4 or 5 still working on their accreditation at various levels

http://www.denix.osd.mil/mmrp/advancedgeophysical-classification-accreditation-andother-tools/



UX-Analyze Update

- Geosoft held UX-Analyze classes for industry in June (Denver) and July (Washington DC)
- UX-Analyze class for USACE in November in Huntsville.
- Geosoft had recent release of new version in late November.
 - The main updates concern importing and working with the MM2x2 data.
 - Version still needs to be DAGCAP approved.
- Planned UX-Analyze class March 29th and 30th at SAGEEP 2018 in Nashville (if enough attendee interest).



MM 2x2 Update

- MM 2 x 2 Validation Testing at the APG DAGCAP Blind Seed Site in September.
- Based on scoring results, the data collected with a MM 2x2 was of sufficient quality to detect all expected TOI on a site seeded to be representative of a real UXO site.
- Based on scoring results, the data collected with a MM 2x2 was of sufficient quality to classify 99 previously detected anomalies on a site seeded to be representative of a real UXO site.
- □ The testing also identified an overheating issue in dynamic mode, the MM 2 x 2 can operate under ambient conditions for only 1 3 hours before a significant rest break is required.
- Geometrics has been working on cooling fixes for the system.
- □ Possible fix in 4 6 weeks. May be a combination of a firmware and hardware fix.
- Geometrics is also working on in-field inversion.





MM 2x2 Update

- ARCADIS currently working in Florida since mid September collecting static data. Collected approximately 8000 static measurements. MM 2 x 2 seems to be functioning OK and provide good static data. Does not appear to have warmup problem seen in EXI system. They have had an issue with:
 - Standard Function Tests (SFT)
 - And lack of Infield inversion causes the need for additional recollects.
- CH2M's MM 2X2 is at Hawthorne for cued surveys. Have had issues with their MM 2 x 2 but are up and running as of last week using loaner from Geometrics while their system is repaired..
- Ft Ord System NAEVA has only been able to do testing. Cued work on EM61 targets after the first of the year.
- EXI MM 2 x 2 being used by Nova to test possible Geometrics firmware fixes for dynamic heat issue.
- Parsons has only done testing this fall but has projects in 2018 for MM 2 x 2
- □ FPM has only been testing their system





SAGEEP 2018

- □ SAGEEP next year March 25th 29th in Nashville, TN
- □ MMRP geophysics to be one of the focus areas of the conference.
- Planning committee Bill Doll, John Jackson, Jon Miller, Greg Schultz, Jeff Leberfinger, Laurens Beran, Sandra Takata.
- □ Approximately 35 abstracts submitted to date.
- □ Sessions:
 - Perspectives on MMRP Geophysics
 - Recent Results in Marine Acoustic Methods for Detection and Classification
 - Non-acoustic (EM and other) Methods for Marine MEC Detection and Classification
 - Lessons Learned from ESTCP Live Site Demonstrations
 - Site Application of Classification Technologies contractor experiences both good and bad
 - Innovative Applications of Geophysics on MMRP Projects
- Possible UX-Analyze class

Supporting BOD/Committees

- Support Analog QC Requirement Recommendations with OSC for Government MR_QAPP working group
- Support OSC review of ITRC Draft Technical Guidance "Quality Considerations for Multiple Aspects of Munitions Response Sites". Due next week to ITRC.
- Support OSC webinar development team



2018 Planned Activities

- Technology Committee Update Conference Calls
- □ ESTCP/SERDP IPR Meetings and Updates
- □ Support SAGEEP 2018
- □ Continue to update committee/membership on DAGCAP information
- Support BOD and Committees
 - Webinars
 - * Coordinating comments with OSC on MR-QAPP and other documents.



Strategic Plan

- Hold membership meetings, technology-sharing events and other Association gatherings, attracting government, military and industry leaders, including international guests to maximize opportunities for members to interact with key government decision makers
- Improve communication via webinars, video-teleconferencing and website information/access
- Work with DoD ESTCP/SERDP and other agencies to stay abreast of latest technologies and share related information with NAOC members
- Increase NAOC presence at domestic and international events
- Address policy and regulation encumberments (e.g. DoD instructions, onerous ATF regulations)



Technology Committee Contact

QUESTIONS?

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