

A NOTE FROM THE PRESIDENT

October 2008

It has been a productive year for NAOC where we have accomplished a lot. We have reinvigorated and broadened our partnering, expanded the boundaries of our organization, and drafted an industry consensus standard. I'd like to thank our membership for participating in NAOC events. The feedback I have received has praised our events as extremely useful.



Heather L. Polinsky

NAOC has been established as a "go to organization" for industry input on munitions related issues. Thank you to all of you who helped arrange and attend our events this year. Please note that proceedings from these events are located on our website for NAOC members at www.naoc.org.

- February :
 - NAOC Board Meeting & NAOC Congressional Fly-in in Washington, DC
- June:
 - Partnering Session – HNC: PBC Contracting and Current PWS Language in Huntsville, AL
- July:
 - NAOC Board Meeting; Jointly hosted the Technology Transfer Conference with SERDP/ESTCP; Partnering Session – HNC and other government /USACE agencies: Technology Transfer in Denver, CO
- October:
 - Partnering Session – HNC: New QC/QA Requirements in Huntsville, AL; NAOC Board Meeting
 - Partnering Session – HNC and other government /USACE agencies: Consistency in Review

Table of Contents

Operation & Standard Committee.....	Page 3
Government Affairs Committee.....	Page 3
Technology Committee.....	Page 4
Member Services Committee.....	Page 4
Guest Column.....	Page 5
Member Firm Spotlight.....	Page 6
NAOC News Gallery	Page 7
Announcements	Page 10
Contact Info	Page 15

Please remember NAOC is here to support the Munitions industry as a whole.

- We are here to represent our members when faced with tough issues impacting us;
- We are here for our clients as a sounding board or a source of information, and
- We are here for our members to foster networking, leverage synergies and to gain information about emerging issues, contract opportunities and eventually establish standards.

Our Board members and committee chair members are the fuel behind our organization. Thank you to each of you for a very productive year!

I look forward to seeing you all soon!

Upcoming Events 2008-2009

Oct 28-30	NAOC Fall Meeting Albuquerque, NM
Dec 2-4	SERDP/ESTCP Symposium Washington, DC www.serdp-estcp.org
Feb 25-27, 2009	2nd Int'l Underwater Munitions Honolulu, HI
May 4-7, 2009	E2S2 (formerly JSEM) Denver, CO
Aug 24-28, 2009	UXO Countermine Forum Orlando, FL

NAOC's Vision: "To firmly establish NAOC as the industry leader for Munitions and Explosives of Concern (MEC) knowledge and expertise; the beacon for efficient, quality execution and safety for both the workforce and the public; the source for innovative ideas and solutions in technology, contracting and personal standards; and the partner for government to help the growth of our industry well in to the first decade of the new millennium."

NAOC Leadership Award Call for Nominations

Due - Nov 10, 2008

NAOC Members,

It is time again to solicit nominations for the NAOC Leadership Award. This annual award recognizes individuals who have made a significant positive impact on our industry's program to cleanup MEC-contaminated lands. As you may recall, our first award recipients were David Douthat and Chuck Thiesen, recognized at the Huntsville Stand Down last year. Award recipients may be currently active in the range and munitions program, or they can be individuals who have been influential in the past. Candidates can come from within industry, government, or other stakeholder organizations. Attached is a detailed description of the award and the nomination form.

Please take the time to identify individuals that you've found to have had a great impact to our industry, and submit a nomination on his/her behalf. As Chair of the Member Services Committee, I will be convening an Award Nominee Review Committee to review the nominations and make recommendations to the Board of Directors. Please also let me know if you are interested in serving on this committee.

Let me know if you have any questions or need any further guidance regarding the process for nominations. We need to receive nominations no later than **November 10, 2008** to facilitate presentation of the awards during the Stand-Down. Please send the nominations directly to Suzy Cantor-McKinney (scmckinney@zapeng.com). Please visit the website - www.naoc.org for more information and the application and criteria requirements.

Nelline Kowbel, PE, BCEE
NAOC Member Services Chairperson
510.932.9212
nkowbel@pirnie.com

**Don't Forget to Join Us
for our
NAOC Fall Meeting
scheduled for
October 28-30
in
Albuquerque, NM
see page 8
for more details.**

NAOC Committees

Operations and Standards

David Keller, Tetra Tech, Inc.
phone: 425.482.7749
email: david.keller@tteci.com

Mission Statement:

To advise government agencies on operations and standards issues in the areas of, personnel, safety, training, and technology as they relate to OE/UXO work sites

Government Affairs

Victoria Kantsios,
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phone: 703.418.3030
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Mission Statement:

Develop, improve and sustain government-industry partnerships through dialogue and interaction with government agencies and organizations.

Operations and Standards

Since our last newsletter the committee has managed to complete the first draft of the consensus standard, which has now been sent to the BOD for review and comment. We hope to incorporate the board's comments, and to provide this first draft to the membership at our annual meeting later this month. I'm sure many of you will have numerous comments/recommendations, which we solicit and the next committee will work to incorporate.

Please give me a call if you have any questions regarding the committee or the consensus standard. Also please consider serving on the Operations and Standards Committee in 2009.

See you in Albuquerque!

Government Affairs

Committee Members: John Bowles (ECC); Wayne Lewallen (EOTI); Patrick McDonnell (BAH); Suzy McKinney (Zapata Incorporated); Jack Norris (Earth Tech-AECOM); Heather Polinsky (Malcolm Pirnie)

A Year in Review

We have had a very successful year with the NAOC Government Affairs program. We met with the Office of the Secretary of Defense and the Deputy Assistant Secretaries of the Air Force and Army. We had a very successful Washington, DC Fly-In and presented the industry perspective in a briefing sponsored by the Congressional UXO Caucus.

Since the last newsletter, Congress passed the Fiscal Year 2009 Continuing Resolution (CR). The CR, as passed included full FY 2009 funding for Military Construction (MILCON) and the Departments of Defense, Homeland Security, and Veterans Affairs. All other departments are funded at FY2008 levels until March 6, 2009, leaving final decisions on FY 2009 spending for domestic programs to the next Congress and President.

So, what does this mean for NAOC member companies? This means that the cleanup programs were funded at least 100% of the requested amounts.

Program	FY09 Requested(\$000)	FY09 Authorized(\$000)
FUDS	\$257,796	\$291,296
Army DERP	\$447,776	\$457,776
Navy DERP	\$290,819	\$290,819
Air Force DERP	\$496,277	\$496,277

I thank the membership for affording me the opportunity to serve as your 2008 Government Affairs Committee Chairperson and I look forward to seeing all of you in Albuquerque later this month.

See the Gov't Affairs Column Spotlight on page 5.

Technology

2008 Technology Committee members:

Jeff Leberfinger (ARM); Jonathan Sperka (HGL); Ken Ford (Mirage); Patrick McDonnell (BAH); James Putnam (PIKA); Tom Bell (SAIC); Jack McIlrath (JCM Consulting); John Williams (Weston); Josh Bowers (CTC); Tamir Klaff (CH2M Hill); James Barton (Underwater Ord); Jeff Viebrock (ECC); George Brumbaugh (EODT); Ryan Steigerwalt (Shaw); Brian Brunette (ARM); Stephen Billings (Sky Research)

SERDP/ESTCP In-Progress Review (IPR) meetings concerning their Munitions Management thrust area projects were held in Arlington, Virginia on October 7th. Topics included Technology Demonstration Sites, Multi-Sensor Systems, Discrimination, Lidar, and Underwater UXO Detection. I attended representing the NAOC Technology Committee. All presentations will be posted on the NAOC website.

The NAOC - SERDP/ESTCP Joint Technology Transfer Workshop was held July 16th and 17th in Denver. SERDP/ESTCP presented technical presentations and outdoor demonstrations of mature technologies that they feel are ready for implementation on "production" UXO assessment and remediation projects. Technical presentations included discrimination methods, marine detection arrays, COTS vehicles for magnetometer arrays, and airborne technologies. Outdoor demonstrations included robotic systems, multi-method systems, and detection/ discrimination/ navigation systems. Classroom tutorials on the 17th explored software developments. There were ~160 attendees including representatives from ~30 of the NAOC member companies.

Immediately following the Tech Transfer (T2) Workshop, on the afternoon of July 17th, NAOC had its second Partnering Session with the Huntsville Corps at ECC's office in Denver. The focus of the meeting was "What needs to change to provide the Corps incentive to use newly approved technologies on real UXO assessment and remediation projects". This goal was hampered by lack of contracting representation at the meeting, but a lively technical exchange took place. Minutes of the meeting are posted on the NAOC website. The new geophysical QC/QA requirements were discussed, and it was agreed that a follow-up meeting in Huntsville would be organized where contractor comments to the requirements could be addressed. This meeting is in-progress at "press time", but will be reported on at the next BOD/GM meeting in Albuquerque.

The report on ESTCP's project with Noblis to identify barriers to UXO transfer has STILL not been released. Revisions are reportedly still being made. NAOC will have the opportunity to review and submit comments

A new initiative is a work group organized by SERDP/ESTCP to examine the current use of geophysical prove outs (GPOs) and their value. There has been a fairly widespread perception that GPOs, as they are currently implemented, are far more expensive than their value justifies. The services and the contractor and regulatory communities were invited to more formally consider this issue. The first meeting was August 6th and 7th in San Francisco. Tim Deignan and I attended representing the NAOC Technology Committee. It was agreed to try and develop a standardized GPO that would be simple to implement and to introduce surrogate UXO seed items. The next follow-up meeting is scheduled for October 23rd -24th in Phoenix.

SERDP/ESTCP's Technology Symposium will be held December 2nd - 4th in Washington, DC. There will be technical sessions each of the three days on military munitions (underwater, tech transfer, and advances in science and systems). A new feature this year will be two short courses, one on introduction to classification (discrimination), and the second on visual sample plans for UXO. These are welcome additions.

Looking forward to seeing all of you in Albuquerque!

Member Services

The NAOC membership is now at 56 firms with 18 large businesses, 24 small businesses, and 14 very small business. Special thanks to Connie Birner for her continued steady support of Member Services, managing the membership application process.

The Member Services Committee organized our upcoming fall meeting. The meeting is being held in Albuquerque at the Sheraton October 29 and 30. We're expecting over 60 NAOC members and 10 special guests. We are looking forward to hearing from leaders and managers speak on key issues in the range and munitions program in the U.S. and globally.

It's time to start thinking about the next recipients of the NAOC Leadership Awards. The selection criteria and nomination forms are available on our website and will be available at the Albuquerque meeting.

Member Services is supporting a Tiger Team to explore organizational approaches to support expansion in Canada. If you're interested in supporting this or any other efforts of the Member Services Committee, please let us know.

NAOC Committees

Technology

John Allan,



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Mission Statement:

Promote the research and development of promising technologies and the successful transfer of validated technologies for improved, safe, and cost-effective MEC detection, discrimination, and remediation solutions. Encourage synergy between government, industry, and academia to advance technologies for performing MEC-related site cleanup.

Member Services

Nelline Kowbel, Malcolm Pirnie

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email:

nkowbel@pirnie.com



Mission Statement:

Show maximum value and benefits of membership to retain existing members and attract new members by providing: a) access to industry shapers, b) mechanism for promotion of industry, and c) opportunity to impact breaking industry events and information.

Government Affairs Member Committee Column Spotlight

Additionally, Section 314 of the 2009 Defense Authorization Bill includes language to support our technology transfer initiatives.

SEC. 314. EXPEDITED USE OF APPROPRIATE TECHNOLOGY RELATED TO UNEXPLODED ORDNANCE DETECTION.

(a) Expedited Use of Appropriate Technologies - The Secretary shall expedite the use of appropriate unexploded ordnance detection instrument technology developed through research funded by the Department of Defense or developed by entities other than the Department of Defense.

(b) Report- Not later than October 1, 2009, the Secretary shall submit to the Committee on Armed Services of the Senate and the Committee on Armed Services of the House of Representatives a report describing and evaluating the following:

- (1) The amounts allocated for research, development, test, and evaluation for unexploded ordnance detection technologies.
- (2) The amounts allocated for transition of new unexploded ordnance detection technologies.
- (3) Activities undertaken by the Department to transition such technologies and train operators on emerging detection instrument technologies.
- (4) Any impediments to the transition of new unexploded ordnance detection instrument technologies to regular operation in remediation programs.
- (5) The transfer of such technologies to private sector entities involved in the detection of unexploded ordnance.
- (6) Activities undertaken by the Department to raise public awareness unexploded ordnance.

Changes Ahead

Regardless of whether Senator Obama or Senator McCain becomes the next President, there will be a new Administration with new political appointees at various agencies. There will also be a wealth of new House and Senate members and staff to educate and familiarize with NAOC, its mission and its issues. Democrats are expected to gain 15-20 seats in the House and five seats in the Senate. The increased Democratic gains, coupled with retirements, and movement into the Administration will result in a reorganization of the Committees of importance to NAOC.

There is already discussion taking place concerning changing Congressional Committee ratios of Democrats to Republicans based on an increased Democratic majority. In the Senate Appropriations Committee, Senator Inouye will likely remain as Chairman of the Defense Subcommittee. There is a possibility that Senator Johnson could become Chairman of another Committee therefore causing a change in the leadership of the MILCON Subcommittee. On the Republican side, retirements by Senators Domenici, Allard, and Craig, as well as possible losses by Senators Stevens and perhaps others, will cause considerable adjustment on both Subcommittees.

With regard to the Senate Armed Services Committee, should Senator McCain lose, he may choose to return as the Committee's ranking member. Should he win, coupled with Senator Warner's retirement, there will be changes on the Republican side of the Committee and its hierarchy.

In the House, there will be less movement and reorganization. Key Committee leadership should remain unchanged. However, it must be taken into consideration that Congressman Blumenauer and possibly Congressman Farr may find positions in an Obama Administration. With this in mind, it is important that we continue to educate all members and staff, grow the size of the UXO Caucus, and be prepared to find a new champion should the need arise.

On the matter of the appropriations and authorization process, it will be in the best interest of the new Congress and Administration to have both the Defense and the MILCON Appropriations bills passed quickly and in regular order. However, this process will be taking place in a dynamic environment where there will be a recharacterization of U.S. international policy and a continued effort to deal with the global financial crisis. These factors will cause a change in priorities. These shifts can work in the interest of NAOC.

In preparation for the changes in the Administration and Congress, NAOC delivered a UXO Executive Summary to both Presidential campaigns. It was also distributed to candidates running in each of the open Congressional seats by way of the National Republican Congressional Committee (NRCC) and Democratic Congressional Campaign Committee (DCCC). Once the outcome of the election is determined, the Executive Summary will be submitted to the President-elect's transitional team.

*Submitted by: Government Affairs Member Chairperson;
Ms. Victoria Kantsios*

Member Spotlight



The Texas Engineering Extension Service (TEEX), established in 1948, is a member of The Texas A&M University System. TEEX offers hands-on, customized responder training, exercises, technical assistance and technology transfer services impacting Texas and the nation. TEEX training programs include fire services, homeland security, law enforcement, public works, safety and health, urban search and rescue, and economic development. The TEEX UXO training program will celebrate its 10th anniversary in 2009. To date the program has graduated more than 450 UXO Tech-I students and continues to deliver five classes per year, each consisting of over 200 hours of technical training coupled with field exercises.

NAOC POC for TEEX:

Mr. Thomas Shehan

979.845.6677 or tom.shehan@teemail.tamu.edu



Founded in 1987 as a groundwater modeling and litigation support firm, HydroGeoLogic, Inc. (HGL) offers the full range of environmental services, including Military Munitions related services. HGL's full-service munitions team has experience supporting Preliminary Assessments/Site Inspections (PA/SAI), MEC Removals, Remedial Investigations/Feasibility Studies (RI/FS), Munitions Constituent (MC) sampling and analysis, MC Fate and Transport Modeling and Assessment, and geophysical survey services. Specializing in mixed waste sites (HTRW and Munitions) and turn-key, full-service solutions, HGL has completed over 100,000 man-hours of MEC related services with no accidents, incidents or lost time. HGL holds an ATF license and has major munitions related contracts with the USACE, AFCEE and ACSIM.

NAOC POC for HGL:

Mr. Jonathan Sperkai

703.326.7863 or jsperka@hgl.com

NAOC News Gallery -

Things that happened.....Things that are going on

ESTCP/NAOC/SERDP Technolgy Transfer Workshop

NAOC co-hosted a Technology Transfer Workshop with SERDP and ESTCP on July 16th and 17th, 2008 in Denver, Colorado. The workshop featured lectures, field demonstrations, classroom trainings, and a panel discussion. The objective of the workshop was to increase communication and promote the advancement of technology to solve UXO/MEC challenges in investigation and cleanup.

We had a great turnout - Thank you to everyone who participated in the Workshop.

The attendee list and platform presentations have been posted to the workshop website - (www.serdp-estcp.org/workshops/) under the information tab. The password to enter the site is "Tech 2".

See Technology Committee Write-up on Page 4 for more information.



NAOC Fall Meeting October 28-30, Albuquerque, NM

The NAOC Fall Speaker Meeting is shaping up to be another outstanding event. This year we are targeting speakers from USACE SPD and NAD, NAVFAC SW, PACDIV, AEC, AF Safety Office, Kirtland AFB, Tribal Representatives, and a special guest speaker on European UXO cleanup programs. In addition, this year we will also have a panel that will include organizations other than those speaking (i.e., Canadian DND, Dept of Army and others).

The meeting will be held at the newly remodeled Sheraton Albuquerque Uptown Hotel. The Board of Directors meeting will be held Tuesday October 28th. As always, the Board meeting is open to all members.

The general schedule* for the meeting is as follows:

- **Tuesday, October 28th**
 - 9am to 4:30pm* – **NAOC Board of Directors meeting.** Open to all NAOC members.
- **Wednesday, October 29th**
 - 8am to 10am - **NAOC General Membership Meeting**
 - 10am to 5pm – **Speaker Sessions** (lunch on your own)
 - 5:30pm to 7pm - **NAOC reception** for all Members and Invitees.
- **Thursday, October 30th** –
 - 8am to 11am – **Speaker Session/Panel Discussion**
 - 11:30am to 12pm – **NAOC Board of Directors Elections.**

**These times are estimated, they may be adjusted as the event approaches - an agenda will be provided prior to the meeting*

Representatives from each NAOC member firm may attend free of charge. Non-member firms may attend the meeting by prepaying \$650 per person; the payment may be applied to 2009 membership dues. Attendance fee checks should be made payable to NAOC, and mailed to John Chionchio c/o USA Environmental, Inc., 5802 Benjamin Center Drive, Suite 101, Tampa FL 33634.

For those member firms that will not be present, please provide a proxy to an attending firm who can cast your vote for the Board elections. Proxy forms will be sent out prior to the meeting. General proxy authority can be granted by one firm to an attending individual through an email as well.

If you have any questions, please contact Cheryl Kennedy at ckennedy@pirnie.com or 914-641-2820, or Nelline Kowbel, NAOC Member Services Chairperson at nkowbel@pirnie.com or 510-735-3045.

Hope to see you there!

See agenda on next page

TUESDAY, October 28, 2008

9:00 AM - 2:00 PM Board of Directors Meeting (*members only*)
 2:00 PM - 5:00 PM Partnering Session: Consistency in Review

WEDNESDAY, October 29th

7:00 AM - 7:45 AM Continental Breakfast
 8:00 AM - 8:10 AM **General Membership Meeting (Members Only):** President's Opening Remarks
 8:10 AM - 8:20 AM Secretary's Report
 8:20 AM - 8:30 AM Treasurer's Report
 8:30 AM - 8:50 AM Operations and Standards Committee Report
 8:50 AM - 9:15 AM Technology Subcommittee Report
 9:15 AM - 9:25 AM Member Services Report
 9:25 AM - 9:45 AM Government Affairs Report
 9:45 AM - 10:00 AM President's Closing Remarks

10:00 AM - 10:30 AM **Break**

Speaker Session (Open to All Attendees)

10:30 AM - 11:00 AM **Army MMRP Program Overview**
 Mary Ellen Maly, Army Environmental Command (AEC)
 11:00 AM - 11:30 AM **USACE Army MMRP Execution and Baltimore MMDC Program**
 Christopher Evans, US Army Corps of Engineers - Baltimore District MMDC
 11:30 AM - 12:00 PM **USACE SPD Range Support Center Program**
 Monique Ostermann, US Army Corps of Engineers - South Pacific Division MMDC
 12:00 PM - 1:30 PM **LUNCH ON YOUR OWN**
 1:30 PM - 2:20 PM **Consistency in terminology & MRSPP Issues and Lesson's Learned**
 Brad McCowan, US Army Corps of Engineers , EMCX
 2:20 PM - 2:50 PM **Army EQT Program: Technologies for Munitions Response & Op Range**
 Brooke Conway, Army Environmental Command (AEC)
 2:50 PM - 3:20 PM **Range Program at Kirtland**
 Wayne Bitner, US Air Force Kirtland
 3:20 PM - 3:35 PM **Break**
 3:35 PM - 3:50 PM **New Member Firm Introductions**
 3:50 PM - 4:20 PM **ITRC in MMRP**
 Guy Warren, ITRC
 4:20 PM - 4:50 PM **Navy MMRP Hawaii and Guam**
 Richard Hosokawa, NAVFAC Pacific
 4:50 PM - 5:00 PM **Wrap up, NAOC President**
 5:00 PM - 7:30 PM **Social**

THURSDAY, October 30, 2008

7:15 AM - 8:00 AM Continental Breakfast
 8:00 AM - 8:15 AM **New Member Firm Introductions**
 8:15 AM - 10:45 AM **Panel Discussions**
 10:45 AM - 11:15 AM Break
 11:15 AM - 11:45 AM **General Membership Meeting Continued (Members Only)**
 Nominations and Presentation Time for Members Wishing to Seek Election to Board of Directors
 (limited to 3 minutes or less per individual member company)
 11:45 AM - 12:15 PM Elections for Board of Directors
 12:15 PM - 12:25 PM Closing Remarks/ Adjourn General Membership Meeting
 12:25 PM - 1:10 PM Board of Directors Meeting: Nominations and Election of Officers and Committee Chairs
 (must be member of the new Board of Directors to nominate/ vote): All members welcome to participate)
 1:10 PM - 1:25 PM Closing Remarks/ Adjourn Board of Directors Meeting

ANNUAL ELECTIONS

Dear NAOC Members:

Not only is our Fall meeting an informative session this is also when we conduct the Annual Election of the Board of Directors and the NAOC Officers for the upcoming year, and to solicit input from those companies and company representatives that desire to be elected to the Board of Directors and, potentially, to one of the NAOC Officer positions.

The Annual General Membership meeting will be conducted in Albuquerque, NM in conjunction with a two-day speaker session on the 29th and 30th of October. The elections of a new Board of Directors will be conducted in the morning of October 30th. The incoming Board of Directors will then meet to elect Officers for the coming year.

The election process, as outlined in our by laws, starts with the General Membership electing member companies to the Board, each member company identifies their representative to the NAOC, and then the Board of Directors elects Officers (President, Vice President, Treasurer and Secretary) from the new Board of Directors representatives. Next year's Directors will also assign Committee Chairpersons.

I encourage anyone that has the desire, time and support of their management to get involved. We need good people with diverse backgrounds, experience and ideas to lead our Association. Please consider whether or not you can provide the time, effort and leadership that the NAOC needs. If you can and you have the desire to run for election to the Board of Directors or an Officer position, or to get involved as a Committee Chairperson, make your intentions known via email or you can wait until the meeting in October. If you decide not to take a leadership position in NAOC this year, please consider ways to get involved through our committees or reaching out directly to one of the officers.

Best regards,

Heather

Heather L. Polinsky, PMP

President, NAOC

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410-353-7855 (cell)

I encourage all members to attend our annual meeting in Albuquerque, NM at the end of the month. If you are not able to attend please provide a proxy to a member that will be attending. The proxy may be as simple as an email to me or our Secretary, Suzy McKinney (scmckinney@zapeng.com) that states:

I hereby provide a proxy to represent _____ (company) to _____ (attendee) and authorize him/her to represent me at our Annual Membership Meeting October 28-30, 2008.

NAOC STRATEGIC PLANNING QUESTIONNAIRE

The Strategic Planning Tiger Team is continuing to accept and review questionnaires sent to members for completion last March. The questionnaires we have received to date have proved very insightful and are extremely important to the Team in helping to shape the future of our Association. Accordingly, we will be redistributing the questionnaires via email and requesting that those members who have not yet taken the opportunity to complete and return them do so as soon as possible. Your assistance and cooperation in this regard is greatly appreciated and we look forward to hearing your thoughts on potential improvements to our organization and the way in which it can best serve our membership. The Strategic Planning Tiger Team is comprised of myself (jbowles@ecc.net), Sonny Richardson (sonny.richardson@westonsolutions.com), Brenda Herman (bherman@eaest.com), Wayne Lewallen (wlewallen@eoti.net) and Ben Redmond (ben.redmond@ch2m.com). Thank you in advance for your help which we all view as a significant contribution to our success.

Our ability to help member companies get the most value from NAOC depends on you - Please return Strategic Planning Questionnaires.

John L. Bowles
Vice President, NAOC
(757) 373-4798

CONGRATULATIONS

I am very happy to report UXO Class #32 graduated at the beginning of this month. The course concluded with a class average of almost 97%. The class Honor Graduate, John Haltmeyer, maintained the top individual average of almost 93%. After testing was completed, Ms. Beth Massa from NAE provided technical assistance to all the new graduates covering the importance of a professional résumé. In addition to Ms. Massa, I would also like to thank those **NAOC member company representatives**, *Jerry Stone and Martha Freeman from PIKA Inc., Sammie Hawkins from EODT, and Al Grant from Shaw Environmental* for attending the first TEEX UXO career day. Each company representative took time to meet and talk with the entire class. There is no doubt, this pilot event was beneficial to both students and member companies alike. We look forward to seeing everyone back again for the last class of the year in October. The first class in 2009 will be in January.

TEEX staff would enjoy hearing from other NAOC members interested in making a presentation to the class and/or touring the TEEX facilities. As we have discussed, TEEX sees our responsibility to provide highly trained Tech-I professionals as paramount to the safety and security of those UXO sites where TEEX graduates are assigned.



For more information please contact:

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Multi-Incremental Sampling to Depth

Submitted by Mr. Gene Barber from TLI Solutions

Multi-incremental sampling is a structured composite sampling approach designed to obtain a sample having analytes in the same proportions as the area from which the sample was collected. Conducting multi-incremental sampling at munitions response (MR) sites is becoming more frequently requested by regulators nationwide. Although the technology was originally developed to address the dispersion of explosives following the detonation of munitions, the process is now being applied to metals analysis as well.

TLI Solutions, Inc. (TLI) was scoped to conduct a multi-incremental sampling effort in support of the U.S. Army Garrison – Hawaii (USAG-HI) under the Active Army MMRP. At the request of the U.S. Army Corps of Engineers – Sacramento District (USACE-Sacramento) and the U.S. Army Environmental Command (USAEC), TLI is conducting this work as follow-on to the site inspection (SI) activities that were conducted at Fort Shafter in April 2007. During the initial SI, two housing areas within Fort Shafter were evaluated for the presence of munitions and explosives of concern (MEC) and munitions constituents (MC) related to the presence of three historic small arms ranges within the housing areas. The initial work included visual surveys and surface soil sampling. Once the results were provided to the stakeholders, it was brought to the group's attention by the Residential Communities Initiative (RCI) team at USAG-HI that the housing areas were scheduled for demolition and re-development. Concern was expressed because munitions debris (MD) (in the form of small arms projectiles) and MC (primarily lead) associated with the historic ranges may have been buried up to 24 inches below ground surface during the construction of the original housing areas. The buried MD and MC may be exposed during the re-development of the areas.



Because this sampling effort was unique, the planning process was extremely important to ensure the sampling effort would be a success. Input into the process was received from

many stakeholders including USACE-Sacramento, USACE Military Munitions Center of Expertise (MMCX), the installation, and State of Hawaii regulators. The steps agreed upon by the stakeholders involved in planning and executing the sampling operation included the following:

- Acquiring an excavation permit from the installation with approval from all relevant utility companies

- Identifying 11 Decision Areas and 22 Decision Units, based on a depth of 0"-12" or 12"- 24"
- Using a systematic random method to select 40 sample locations within each Decision Area and Decision Unit
- Loading sample location coordinates into a Trimble GEO.XT GPS unit
- Using a systematic random method to select three aliquots from each 12 inches of the sample core

Several sampling strategies were evaluated by TLI, including using a Geoprobe or similar hydraulic sampling system, hand-digging each sample location with a shovel, using a gas-powered post-hole digger, and using a two-foot sample core with slide hammer. In the end, the option of using a two-foot sample core with slide hammer was determined to be the most effective. The team realized that this process would be very labor intensive; however, because the sample area was within housing areas, this approach was determined to be the least disruptive to the community.

Once in the field, the following steps were used to complete the sampling effort:

- Utilities were marked by a private company prior to initiating the sampling activities
- GPS unit was used to locate sample locations. If the randomly selected sample location was not accessible (inaccessible vegetation, no soil available, exposed bedrock, area paved, etc.) an alternate sample location was selected and the coordinates were documented with the GPS unit.
- Sample locations were cleared by the UXO technician and marked with pin flags
- Core samples were collected by the sample team (Photographs 1 and 2)
- One triplicate sample was collected from one decision unit to assess the uncertainty in the sampling strategy and design
- Each sample tube was marked with sample location identifier, capped, and transferred to sample staging area (Photograph 3)
- Sample tubes were cut using a pipe cutter to collect the previously-determined aliquots to create a one-kilogram sample in a zippered-top bag for each decision unit
- Samples were transferred to the laboratory for analysis



Several problems were encountered by the sampling team including



equipment failures and intense physical effort. The soil conditions also caused numerous problems including blockage of the sample core tubes by a dense clay layer and refusal of the sample core when encountering coral, lava, roots, and bedrock within the 24 inch depth. Other problems included compaction of soil within the sample core tube, incomplete filling of the sample core tube, and loss of soil from the end of the tube while the core was being removed from the ground. Regardless of these difficulties, the team was able to successfully complete the field sampling effort. However, the effort took eleven days instead of the six days that were originally scheduled.



Samples are being analyzed by a laboratory on Oahu. Samples were to be dried, sifted through

a #10 (2.0mm) mesh sieve, and distributed using a rotary sample splitter. The USACE MMCX visited the lab to evaluate the process that was being used for analyzing the samples. The USACE MMCX representative noted that the laboratory was encountering problems preparing the samples because of the soil conditions including hard clods and dense clays (Photograph 4). By using the proposed process of sieving the samples, too much of the sample was being eliminated because it would not pass through the sieve. Therefore, the USACE MMCX recommended that the samples were ground with a mortar and pestle prior to the screening step to ensure that an adequate distribution of the sample was available for analysis.

As the field effort was only completed at the end of August, it is too early to determine if the approach developed by TLI with oversight from USACE and USAEC will provide adequate results to answer the question about the presence of lead in sub-surface soils. However, the lessons learned regarding developing and implementing a multi-incremental sampling to depth will be invaluable for use in future projects.

*Plexus Scientific Corporation Completes Thermal Decontamination
of
Explosives Contaminated Buildings
at Savanna Army Depot Activity, Savanna, Illinois*

In September 2008, Plexus Scientific Corporation of Alexandria, Virginia, completed the successful thermal decontamination of 16 explosives contaminated buildings at the Savanna Army Depot Activity (SVDA) in Savanna, Illinois. The work was completed fifteen months ahead of the scheduled December 2009 deadline. The Depot Activity is approximately 150 miles west of Chicago and was used to manufacture, test and store various types of projectiles, bombs, and ammunition. The project was performed under a subcontract to Environmental Quality Management, Inc. of Cincinnati, Ohio under a contract with the Louisville District of the U.S. Army Corps of Engineers.



The SVDA project consisted of the use of propane powered convective heaters to thermally decontaminate buildings walls, floors, ceilings, and installed equipment that

had previously been contaminated with TNT, nitrotoluene, lead azide, and other explosive compounds. Plexus achieved the explosives decontamination to the 5X standard, which is the required decontamination level for transfer of the buildings to the general public for unrestricted use. The process developed by Plexus to achieve explosive decomposition is based on Pyrolysis.

Pyrolysis is the chemical decomposition of organic materials by heat in the absence of oxygen. In practice, it is not possible to achieve a completely oxygen-free atmosphere; rather an oxygen deficient atmosphere is created to achieve Pyrolysis. The decomposition of the explosive compounds is documented through the use of thermocouples and confirmation sampling. EPA Region V and Illinois EPA regulators approved Plexus' work plans, in addition to the approvals received from the U.S. Army Technical Center for Explosives Safety and the Department of Defense Explosives Safety Board.



The thermal decontamination process had been previously performed at other Army locations, however, the completion of decontamination efforts at SVDA are unusual due to the size of the buildings decontami-

nated, (up to 16,000 sq feet) and the number of buildings treated (a total of 16). A thorough building inspection is required to ensure removal of combustibles, bulk explosives, ordnance items, asbestos, mercury switches, fluorescent light bulbs, and light ballasts prior to treatment

The thermal decomposition process is very flexible and is suitable for ammunition plant buildings, subsurface sewers, and munitions and scrap containing explosives contamination. Plexus' convective thermal decontamination process should be considered as a suitable alternative to building incineration, a process which is currently receiving increasing public and regulatory opposition due to particulate emissions and the fact that it precludes reuse of the building.

*Submitted by Mr. Rick Newsome, Plexus Scientific -
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ANNOUNCEMENTS

Sustaining the Nation for a Secure Future

Mr. Tad Davis, Assistant Secretary of the Army (Environment, Safety and Occupational Health), recently gave a presentation. During the presentation it was noted that the MMRP is a significant part of the Army's future and that funding for the future looks promising. The full presentation is to target to distribute by email but if you would like the entire presentation, please contact Mr. Ben Redmond at (865) 560-2906 or ben.redmond@ch2m.com

Sustaining the Nation for a Secure Future
Army Engineer Association



Army budget estimates for environmental cleanup over the next seven years

Fiscal Year	IRP Budget Requirement (\$1,000,000)	MMRP Budget Requirement (\$1,000,000)	Total Requirement (\$1,000,000)
2009	\$350	\$98	\$448
2010	\$230	\$191	\$421
2011	\$146	\$317	\$463
2012	\$107	\$341	\$448
2013	\$99	\$360	\$459
2014	\$99	\$382	\$481
2015	\$89	\$390	\$479
2016+	\$688	\$1,254	\$1,942
Total	\$1,808	\$3,333	\$5,141

Consensus Standard

The Consensus Standard has been uploaded to the NAOC website under Operations and Standards/ Shared Documents/Consensus Standard. Be advised that the document is 175 pages. If you have any questions or difficulty downloading the document please contact our Ops and Standards Membership Committee Chair - Mr. David Keller (www.david.keller@tteci.com) or 425-482-7749.

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Please submit your press releases and articles to ckennedy@pirnie.com, or you can mail them to Cheryl Kennedy, Malcolm Pirnie, Inc., 104 Corporate Park Drive, White Plains, NY 10602. Comments and suggestions are welcome!

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