

## A NOTE FROM THE PRESIDENT

June 2007

Dear NAOC Membership,

The Board of Directors (BoD) **committed to conducting a Strategic Planning Process** during our June BoD meeting, to carry NAOC into the future. Since the current mission, vision, and goals of the Association have not been updated in many years, it was decided to assemble a "Tiger Team" to spearhead this process.

The Tiger Team and all future strategic planning efforts will be organized under the NAOC Vice President at the direction of the Board of Directors. Therefore, this effort will be led by John Bowles. The Tiger Team will be comprised of seven members, three members of the Board of Directors and four members of the general membership. **We are soliciting volunteers to fill the general membership positions on the Tiger Team.** The intent is to identify interested parties and to select four members that provide diverse perspectives (e.g. business size, services provided, tenure in the industry). I encourage you to consider being an integral part of shaping the future of our organization. Please carefully consider your offer to participate on the Tiger Team, those who volunteer must take this as a serious commitment through 2008. If interested please contact John Bowles ([jbowles@ecc.net](mailto:jbowles@ecc.net)).



Heather L. Polinsky

Please be assured while participation in the Tiger Team must be kept to a manageable size, one of the first actions the Tiger Team will take is reaching out to every Member Company (primary and secondary representatives) for input to the Strategic Plan. Please be responsive to Tiger Team calls. The development of a Strategic Plan will be designed to solidify the organization's direction and capture the needs and desires of member companies' and external organizations we seek to influence regarding, ultimately determining how NAOC can provide the utmost value to our membership and our industry.

The Board feels that it's important to reach a consensus about NAOC's mission, vision and organizational values/purpose by asking questions about what the Association is trying to achieve and how those goals will best be reached. Ultimately NAOC's mission and purpose will be updated. Long-term and short term goals will be established and a process to monitor achievements developed. This strategic plan will feed into our annual budgeting process. Starting in June of 2008 the intent is to issue a draft NAOC Annual Plan along with the annual Budget. Both the plan and budget would be reviewed and adopted at our Fall 2008 meeting after election of the Board of Directors.

As it moves forward in the process, the Tiger Team will adhere to the following basic guiding principles:

- already established 2007 actions/budget will not be effected;
- the planning process will span the 2007/2008 BoD;
- this effort will be inclusive of all NAOC members
- the Tiger Team will work within the NAOC Bylaws and Charter, and will make quarterly status reports to the BoD;
- all recommendations and conclusions will reflect the fiscal responsibility of the Association and are subject to BoD approval.

The Strategic Planning Team will present their status to membership at the 29-31 October Fall Meeting in San Francisco. They will then have a Draft Document available by Spring 2008, and the final recommendations will be presented to the NAOC membership at our Annual meeting in the Fall of 2008.

I look forward to seeing you at the UXO Forum in August, until then enjoy the summer!

Heather L. Polinsky  
President

### Upcoming Events

- |                     |  |
|---------------------|--|
| Jul 30- Aug 3, 2007 | <b>2007 Sustaining Military Readiness Conference</b><br>Orlando, FL<br><a href="http://www.sustainingmilitaryreadiness2007.com">www.sustainingmilitaryreadiness2007.com</a>        |
| Aug 9, 2007         | <b>Perchlorate: Overview of the Issues, Status, and Remedial Options</b><br>ITRC Internet Training<br><a href="http://www.itrcweb.org/ibt.asp">www.itrcweb.org/ibt.asp</a>         |
| Aug 21-23, 2007     | <b>Air National Guard Workshop</b><br>Orlando, FL<br><a href="http://www.env2007.com">www.env2007.com</a>  |
| Aug. 27-30, 2007    | <b>UXO Forum</b><br>Orlando, FL<br><a href="http://www.theforum2007.com">www.theforum2007.com</a>  |
| Oct. 9-11, 2007     | <b>1st Intl Conference Chemical and Conventional Munitions Dumped at Sea</b><br>Halifax, Nova Scotia<br><a href="http://www.seadumpedmunitions.com">www.seadumpedmunitions.com</a> |
| Oct 24-26, 2007     | <b>Countering IEDs 2007</b><br>Washington, DC  |
| Oct 29-31, 2007     | <b>General Membership Meeting</b><br>San Francisco, CA   |

## NAOC Committees

### Operations and Standards

David Keller, Tetra Tech, Inc.  
phone: 425.482.7749  
email: david.keller@ttech.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,  
URS Corp.  
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email:  
victoria\_kantsios@urscorp.com



#### Mission Statement:

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

## Operations and Standards

**Committee Members:** David Keller, Chair (Tetra Tech); David Douthat (ECC); George DeMetropolis (URS); Jack Norris (Earth Tech); Edwin Bundy (BA); Paul Ihrke (PIKA); Doug Ralston (USAE); Skip Sowards (Power Surveying); Gary Webb (HGL); Geoff Carton (PLEXUS); James Barton (UOR); Hobby Hobson (RONCO); David Mercadante (EA)

As I reported in the last newsletter, our goal over the next couple of years is to develop Consensus Standard to support the NAOC in its leadership. We have broken this into the following sections with the following leader/advocates:

·Administrative Requirements..... Gary Webb  
·Operational Procedures..... George DeMetropolis  
·Equipment and Systems ..... Jeff Leberfinger  
·Quality control/Assurance..... Les Clarke and Jack Norris  
·Safety ..... David Douthat  
·UXO Technician Certification Cards..... Skip Sowards  
·Glossary ..... Dave Keller  
·References ..... Jim Barton

This is a major undertaking. Skip Sowards has developed an initial draft of the UXO Technicians Certification Card which is undergoing internal review and will be brought to the Board of Directors in the next couple of months.

We are always in need of help in this effort. If you are interested in this very important project, please contact me or the subject lead.

## Government Affairs

**Committee Members:** John Bowles (ECC); Wayne Lewallen (EOTI); Patrick McDonnell (BAH); Suzy McKinney (Zapata Engineering); Jack Norris (Earth Tech); Heather Polinsky (Malcolm Pirnie); and Eric Spillman (BAH).

We held our fourth Lobby Day event on 5-7 February 2007, with 20 companies sending representatives. We kicked-off our event with Representative Earl Blumenauer (D-OR) and Representative Ginny Brown-Waite (R-FL) providing their views on the Military Munitions Response program. The following day we had a Congressional Staff panel discussion.

For those of you who were not able to join us, this year we lobbied Congress for:

- An additional \$100M to expedite cleanup of MMRP sites at Legacy BRAC installations
- An additional \$100M to cleanup FUDS MMRP sites
- Language in the National Defense Authorization Act for DoD to:
  - Develop criteria for utilization of "early transfer authority" (ETA);
  - Develop guidelines to determine the appropriate use of property transfer alternatives to the use of early transfer and privatization authorities; and
  - Prepare and submit a plan to Congress describing the Services' plans to utilize public sales and ETA for properties resulting from BRAC sites"

As of this writing, the House version of the 2008 Defense Authorization Act does not include any provisions for the Military Munitions Response Program and we are awaiting the Senate version of the bill.

Working legislative issues on behalf of NAOC is a continuous process. If you are interested in the Department of Defense policies affecting our industry, please consider becoming a member of the Government Affairs Committee. This forum allows you to meet and represent NAOC with key decision makers in our industry and provide your insight and experience to influence the policies that govern our industry.

I wish you a great summer and hope to see all of you in Orlando at the 2007 UXO/Countermines/Range Forum.

## Technology

**Committee Members:** Jeff Leberfinger (ARM); Jonathan Sperka (Malcolm Pirnie); Ken Ford (Mirage); Patrick McDonnell (BAH); James Putnam (MKM); Tom Bell (SAIC); Jack McLrath (Tetra Tech); John Williams (Weston)

SERDP / ESTCP In-Progress Review (IPR) meetings were held February-March and mid May in Arlington, VA. Project topics included wide area assessment, ground-based detection and discrimination, and underwater technologies. Technology Committee members represented NAOC at all meetings.

SERDP / ESTCP are planning a two-day invitation only workshop on the topic of "Research Needs for Improving Detection and Remediation of Underwater Unexploded Ordnance (UXO)." The meeting will be held July 31<sup>st</sup> and August 1<sup>st</sup> in San Diego. The primary goal of the workshop is to allow government managers and investigators to explore ongoing work in related fields that may be applicable to the underwater UXO problem, as well as to identify gaps in understanding that must be addressed by future research. Jeff Leberfinger and I will be attending representing the NAOC Technology Committee. If there are any issues, questions or thoughts you would like me to discuss with conference attendees, I would be happy to do so. Please contact me directly. Presentations, when distributed to attendees, will be added to the website so members can access the information presented.

ESTCP's project with Mitretek Systems (now Noblis) to identify barriers to UXO technology transfer is progressing. Noblis met with the Huntsville and Baltimore Corps of Engineer districts, the Navy, and Air Force to discuss their perceptions on the issues. Noblis met with the NAOC Technology Committee (attendees: John Allan, Tom Bell, and Jonathan Sperka) on February 16<sup>th</sup> to get our input prior to their government steering committee meeting March 22<sup>nd</sup>. They now have modified their approach. They are reviewing the MMRP project database, and are conducting a marketplace analysis to determine which innovative technologies may be applicable to which MMRP sites. They are due to submit a draft report to SERDP / ESTCP by late July in preparation for the next steering committee meeting in mid August.

Foerster Instruments (NAOC member) held their 5<sup>th</sup> International Workshop for Mine, UXO, and Explosive Waste Detection at their company headquarters in Reutlingen (new Stuttgart), Germany, attended by 70 international experts. Upon invitation, I attended on behalf of NAOC and delivered a presentation summarizing NAOC's past, present, and future activities. It appeared to be received well. We have an audience if we become interested in expanding internationally!

JUXOCO has announced the retirement of Dr. Femi Ayorinde. Femi has been a stalwart in the JUXOCO office for many years and has been an unrelenting force for successful innovative technology transition from government R & D to private industry. He has been a long time supporter of NAOC. On behalf of NAOC, I would like to thank Femi for his contributions to the UXO industry, and we wish him continued success in his future endeavors.

## Member Services

**Committee Members:** Geoff Carton (Plexus); Les Clarke (Battelle); Dr. George DeMetropolis (URS); David Keller (Tetra Tech); Wayne Lewallen (EOTI); David Mayfield (EODT); Suzy McKinney (Zapata Engineering); Ruanne Mikkelsen (Parsons); Jack Norris (Earthtech); Ben Redmond (CH2M Hill) – Board Sponsor; Tim Reese (EA Engineering); Bernie Wong (ERRG)

This spring the membership services committee has been busy with several key activities. The committee held meetings by phone to discuss and launch the membership campaign. We developed a Top 10 reasons to join NAOC (see **NAOC website**). Growth in our membership is essential to sustain growth in the NAOC services to our members. Costs have escalated for our events and activities, and we would like to see the membership grow rather than face a decrease in services or an increase in dues! Please do your part to recruit new members and help grow our organization.

NAOC offers a \$100 discount on current membership dues per company for all new members recruited, the discount would be applied to the next year's dues.

Jack Norris has been spearheading the development of the NAOC Leadership Award with support from the Tiger Team members, Hud Heaton and Glenn Earhart. The award criteria have been drafted and were presented at the June 19 Board of Directors meeting in DC. The plan is to solicit nominations from the NAOC members for both candidates within the NAOC contractor community and from government. More news will come out shortly by email.

NAOC will be front and center at the UXO Forum. As a co-sponsor, we will have a centrally located booth. We will also have an invitation-only social event on the evening of Tuesday August 28th at the J.W. Marriott. Be sure to stop by our booth to pick up tickets. Additional tickets will be available for purchase by member companies for \$20 each. More details on the event will be communicated by email in early July.

Sponsorships for the social event are available for \$500 each. Sponsors will have their company name/logo shown prominently at the hospitality event. Thanks to all of the sponsors who have submitted payment to NAOC c/o John Chionchio. If you're not sure if you've paid, please check with John ([jchionchio@usatampa.com](mailto:jchionchio@usatampa.com)) and get your payment in soon. Our current sponsors are:

1. CH2MHill, 2. Malcolm Pirnie, 3. URS Corporation, 4. NAEVA, 5. EA Engineering, 6. Parsons
7. Foerster, 8. Zapata Engineering 9. ECC

Hope to see everyone in Orlando at the Forum.

## NAOC Committees



### Technology

John Allan,

Naeva Geophysics, Inc.  
phone: 434.978.3187

email:

[jallan@naevageophysics.com](mailto:jallan@naevageophysics.com)

### 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

phone: 510.735.3045

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[nkowbel@pirnie.com](mailto: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.

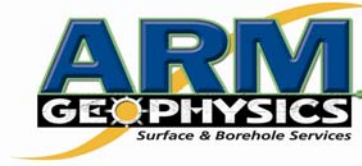
## Member Spotlight:

# Battelle

*The Business of Innovation*

**Battelle** is a non-profit, global science and technology enterprise that develops, commercializes and implements technology solutions for customers. Headquartered in Columbus, Ohio, Battelle has a vast science and technology reach. Battelle, with the national labs it manages or co-manages, oversees 20,000 staff members and conducts \$3.7 billion in annual research and development. Battelle provides solutions and develops innovative products, helping its customers leverage technology into a competitive advantage. We also team with more than 800 federal, state, and local government agencies, providing cost-effective science and technology in the areas of national security, homeland defense, health and life sciences, energy, transportation and environment.

*NAOC contact for Battelle:*  
*Mr. Les Clarke*  
*(303) 886-4323 or [clarkef@battelle.org](mailto:clarkef@battelle.org)*



**ARM Geophysics** provides a full range of both surface and borehole geophysics. Using a wide variety of sensors and navigation/positioning systems ARM has mapped and identified buried Unexploded Ordnance (UXO) on closed and active military firing ranges across the United States. ARM will be working with Gap Geophysics Australia Pty Limited (GAP) to test and validate its new Sub-Audio Magnetic (SAM) System at APG and YPG this summer. After validation, ARM will provide SAM surveys for sites in North America for GAP.

For more information please review ARM's website at [www.ARMgeophysics.net](http://www.ARMgeophysics.net)

*NAOC contact for Arm Geophysics:*  
*Mr. Jeffrey Leberfinger*  
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**Foerster** is a leading producer of magnetometers and metal detectors.

Foerster manufactures a wide variety of electromagnetic and magnetic detection devices. The FEREX Series Fluxgate Magnetometer is also known to the US Military as the Mark 26 Ordnance Locator, and has been in service for over 30 years for UXO detection and survey work.

The FEREX DLG-GPS Datalogger is used for geophysical/magnetometer surveys using up to 4 sensors simultaneously and can be integrated with GPS for target positioning. Coupled with Foerster's DATALINE software it can be used for analysis of the magnetometer surveys taken with the FEREX DLG-GPS Datalogger.

Foerster's MINEX 2FD Metal Detector is a hand-held electromagnetic (EM) 2 frequency continuous wave instrument designed to find Antipersonnel and Antitank Landmines. It is in service throughout the world in both military and humanitarian demining operations.

Foerster Headquarters is located in Reutlingen, Germany with offices throughout the world. Foerster's US Subsidiary is located in Pittsburgh, PA.

*NAOC contact for Foerster:*  
*Mr. Myles Capen (412) 788-8976 x2163 or*  
*[mcapen@foerstergroup.com](mailto:mcapen@foerstergroup.com)*



**ECC** delivers munitions response, environmental remediation, and construction solutions for challenges facing our clients worldwide. ECC is an employee-owned business with proven leadership and technical expertise in project execution for munitions and explosives of concern (MEC) since 1989. We have successfully and safely managed and self-performed more than 120 munitions response projects worldwide in all types of operational environments ranging in value from \$100,000 to \$48 million.

Our exceptionally capable team is composed of experienced military and civilian leaders who apply their backgrounds in explosive ordnance disposal and munitions response programs to successfully achieve client objectives and build strong professional relationships among regulatory agencies and stakeholders alike. As responses to MEC challenges increase in complexity and new technologies evolve, ECC provides an unsurpassed understanding of the explosive and chemical hazards posed by MEC and munitions constituents, as well as efficient, effective and innovative solutions incorporating technologies, remote-area logistics, and a comprehensive awareness of regulatory and policy requirements.

For more information, please visit our website at [www.ecc.net](http://www.ecc.net)

*NAOC contact for ECC:*  
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## NAOC News Gallery -

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

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The UXO Forum is approaching (August 2007) - please be sure to attend those presentations given by NAOC Members

### ATI

*Barricades and Blast Monitoring, Mitigating Effects on Residences and Resources*, with the following authors: Michelle Crull PE, Benjamin Konshak, Don Johnson, Rowland Reeve, Daniel Haines

### MALCOLM PIRNIE

Al Larkins: *A UXO Options Analysis, CFAD Bedford, Halifax, Nova Scotia & The Ordnance Time Almost Forgot*

Larry Sievers: *Streamlined MMRP Remedial Investigation at a Marine Corps/Navy Training Range*

Jonathan Sperka: *Meeting the Challenges of the Blossom Point MMRP SI & Water Ranges and Sites (Past Practices and Current Policies)*

Mark Albe: *Moving Forward: Developing the Army's MMRP RI/FS Study Guidance*

Susan Burtnett: *Applying MMRP Evaluation Techniques and Lessons Learned to Non-DoD Ranges*

### URS

Evan Gabrielsen (URS), Tim Kutz (URS), Rudy Labban (URS) and Dennis Weder (75CEG/CEVR, Hill AFB): *Thermal Decontamination of 20mm Range Debris*

Scott McClelland (URS), Joanna Bateman (Fort Eustis), and Christopher Evans (USACE Baltimore District): *Defining a Munitions Response Site - Langley Field Aerial Gunnery Range MRS, Fort Eustis, VA*

Frank Francone (RML), Larry M. Deschaine (SAIC), John Wright (Chief, Environmental Restoration, F.E. Warren AFB), Brian Powers (URS), and Andy Gascho (URS): *Discrimination of 75 and 37mm-MEC from Clutter using Linear Genetic Programming: F.E. Warren Air Force Base, Wyoming*

Brian Powers (URS), John Wright (Chief, Environmental Restoration, F. E. Warren AFB), and Joe Goehring (URS): *Remedial Investigation of Closed Ranges at F.E. Warren Air Force Base, Wyoming*

Brian Helmlinger (URS) and Timothy Alexander (USAEC, APG): *Management and Disposition of Munitions Debris and Range Related Debris*

Rick D Cox (URS), Dave Olson (URS), and Wanda Holmes (CNO N45): *Underwater Military Munitions Disposal Site - Navy Historical Review*

Rick D. Cox (URS), Steve Stinger (URS), and Jon Haliscak (AFCEE): *Beta Testing of Air Force Operational Range Assessment Plan (ORAP) Guidance*

Rick D. Cox (URS), Steve Stinger (URS), and Jon Haliscak (AFCEE): *Air Force Operational Range Assessment Plan Policy & Guidance*

Cindy Turlington (URS), Rick D Cox (URS), and Wanda Holmes (CNO N45): *Navy Munitions Response Site Prioritization Protocol Quality Assurance Guidance*

Cindy Turlington (URS), Rick D Cox (URS), and Wanda Holmes (CNO N45): *Navy Policy Changes to meet Munitions Response Program Needs*

Victoria Kantsios (URS) and Leslie Walrath (HQDA, DAIM-ED): *A Predictable Methodology to Program Environmental Requirements*

Dale Bennett (URS): *Lidar and Orthophotography at a Complex Munitions Site*

### ZAPATA ENGINEERING

Jim Hild, PG: *Digital Geophysical Mapping Using an Autonomus Robot*

Tim Burkett of Zapata Engineering will be copresenting with Tommy Hunt (USAESCH): *Using GIS Analysis to Estimate MEC Clearance Costs*

**NAOC Leadership Award**  
*coming soon*

***Request for nominations expected to be requested at 2007 UXO Forum  
and  
the 1st annual award will be given at the OE Standdown (Huntsville) in December***

**Concept:** Recognition of significant contributions made to improve the NAOC and the industry.

**Selection Process:** Nominations may be submitted by any active member. A Tiger Team will be established to consider such awards by the Membership Committee. The Tiger Team will review and prioritize nominations for approval by the Board of Directors.

**Frequency:** Annually in conjunction with the UXO Forum and corresponding NAOC Social Event, or other appropriate conferences. Nominations will be accepted no earlier than six months before the UXO forum and final selection completed three months before the announcement.

**Number of awards:** Typically two awards will be made – one to someone within the NAOC Membership and one to someone serving in government or a former member no longer working for the government or a NAOC Member.

**Criteria:** Must have been involved with the Military Munitions Response Program (MMRP) and over a period of time provided significant leadership and promoted the interests of the NAOC.

**Type of Award:** A plaque or other suitable award.

**Benefit to Recipient:** Recognition of accomplishment and allowed to attend all future NAOC Social Functions without charge.

**Benefit to NAOC:** Opportunity to reward leadership and increase of such recognition within government and our membership.

Thank you to Jack Norris for developing this award criteria. To be engaged in the selection process or make a nomination please contact Nelline Kowbel, Member Services Chairperson. Award nomination forms will be available on the website soon.



### Timberline Environmental Services Announces R-3 Facility

Timberline Environmental Services, longtime leader in the demil industry, has teamed with Southern Ammunition Company to provide innovative methods for demilitarization of DoD ammunition. The core of the teaming arrangement is the establishment of a premiere R-3 (resource recovery and recycling) facility in Loris, SC.

Timberline Environmental Services is at the forefront in developing equipment and methods specifically designed for the demil community. We have been dedicated to developing safe, streamlined processes, while maintaining positive control and accountability from collection through final disposition of demilitarized ammunition.

Since 2000, Timberline has processed in excess of 2 million pounds of ammunition for Joint Munitions Command, ATF, FBI and law enforcement agencies throughout the US and Canada, utilizing Timberline's patented BulletBuster system.



Likewise, during the mid 1990's Southern Ammunition developed processes and equipment to demilitarize small arms ammunition by mechanically separating it into its component parts (case, powder, and projectile). The ammunition components are sorted, military from commercial, and the commercial is sold in the U.S. ammunition market. The military is demilitarized to recover the reusable components that can be sold to the ammunition market, with the balance that can't be, being recycled as scrap.

Timberline and Southern Ammunition share a commitment to developing new technology and methods in support of DoD's efforts to reduce stockpiled small arms ammunition. Timberline and Southern Ammunition's resourceful methods advance DoD's efforts by reducing costs while adhering to strict safety standards. By combining our technology, we have the ability to better utilize all materials, thus allowing us to do the work for little or no cost to the customer, depending on the specific project.



R-3 facility: 76,000 sq. ft., under roof, totally secure, complete with 24- hour video surveillance.

- US EPA # CAR000170332
- Approved by BATF
- Approved by US Customs & Border Protection
- Foreign Trade Zone 21 site 6
- DoD Central Contractor License 1BJ54
- Federal Firearms and Importers License 1-57-051-08-8L-62678
- US State Dept. Brokering License K-1406



*NAOC contact for Timberline:  
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**Booz | Allen | Hamilton**  
*90 years* delivering results that endure

## “Realistic IEDs’ Provide Realistic Training”.

A Federal exercise was planned in Alaska that included an Explosive Ordnance Disposal (EOD) response element. It was determined, during the planning for the exercise, that the EOD element would like to have a realistic Improvised Explosive Device (IED) that they could ‘attack’ and would provide both visual and sound indications if it was not appropriately defeated. With input from EOD personnel, Booz Allen constructed two devices to meet the need — both devices were exactly the same. The device was placed inside of a Pelican case. (See Figure 1) The device was wired with an electronic timer (placed inside the top of the case) and a cell phone that was inside the device. (See Figure 2). Two replicas were needed so the team could attack one and defeat it, then use the other one to examine the original configuration to ensure their tactics would have worked. The device was set up in a realistic scenario in proximity to ‘chemical containers’ that they would aerosolize upon detonation for the purposes of the exercise. The device was successfully defeated by the EOD element as part of the exercise. These scenarios are being faced by many employees of NAOC companies overseas in Afghanistan and Iraq as they deal with IEDs attached to both enemy ordnance and scavenged U.S. ordnance. Booz Allen was proud to support a training scenario and exercise that one day could save the life or lives of military EOD or NAOC contractor UXO personnel in the field.

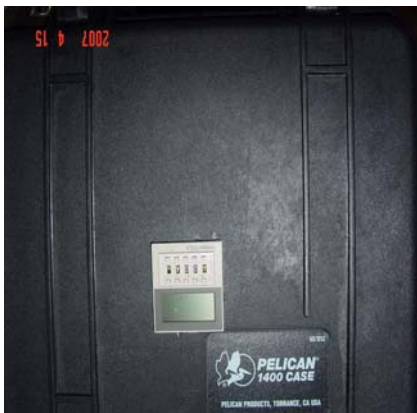


Figure 1: Picture of the top of the device



Figure 2: Inside of the devices

By:  
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## Zonge Geosciences, Inc.

Zonge Geosciences has recently renewed their development of the Dynamic NanoTEM (DNT). The DNT is a multi-gate, four-dimensional (4-D) time-domain electromagnetic (TEM) system that uses up to three receiving antennas in any orientation, with an A/D sample rate of 1.2 is recording data from extremely early to late times. This compares to a single horizontal receiving antenna and initial sample rates that start at least two decades later in time with other EMI systems. For most UXO surveys, a limiting factor in the performance of the EMI method is the signal-to-noise ratio (SNR). Increased SNR would allow better rates of detection, deeper penetration of the signal, improved discrimination, and faster surveying. The DNT improves SNR in several ways. First, it provides adjustable sample rates as high as 270 hz, (540 pulses), resulting in better cancellation of 60 hz powerline and random noise when the numerous decays are stacked into ~10 hz bins. Second, since SNR is usually better in early times before signal strength has decayed, the early time data made possible by the faster A/D sampling of the DNT also improves SNR. Third, the fast A/D sampling rate allows up to 516 samples in a single decay that are stacked within the decay to improve SNR.

Processing software has been written in the .gx format for direct incorporation into Geosoft's Oasis montaj®. The DNT is currently being put through it paces by Zonge's newest hires Darrell Hall and Todd Meglich, along with related work on SERDP projects #1309 and #1324 that will likely result in additional DNT improvements. Most recently Mr. Hall has been doing contract work for the UXO community involving data processing and QA/QC. Mr. Hall brings 5+ years of experience in the UXO field to the team. Mr. Meglich arrives at Zonge from Blackhawk GeoServices via the Colorado School of Mines where he is currently finishing his Master's degree in Geophysics. Mr. Meglich brings with him 7+ years of UXO experience in all areas of UXO geophysics.

Written by: Mr. Todd Meglich  
Senior Geophysicist  
Zonge Geosciences - Colorado  
Phone: 720-962-4444  
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or [phils@zonge.com](mailto:phils@zonge.com)*

## Department of Army Souvenir/UXO Safety Program Launched

To Whom It May Concern:

Please review the enclosed safety posters, produced by the Army regarding the dangers and proper handling of “keepsake” or “souvenir” munitions. Too often, veterans unknowingly put themselves, their families and neighbors in danger by keeping dangerous munitions as war souvenirs, assuming that they are safe because of age or frequent handling.

Whether they are called “UXO (unexploded ordnance),” “duds,” “dummy ammunition,” or “war mementos,” munitions are dangerous by design, and should never be considered safe to handle. This risk most recently came to light when two California children were killed and several others injured, while playing with a live munition.

Since the exposure to dangerous keepsake munitions often comes unknowingly, risk can be reduced significantly through proper education. As outlined in the enclosed posters, the Army urges anyone coming in contact with a UXO to use the 3Rs of explosives safety: **RECOGNIZE**- when a munition is encountered; **RETREAT**- do not touch, move or disturb it, but leave the area; **REPORT**- call 911 and advise the police of what was seen and its location.

Please assist me in disseminating this information and the enclosed safety posters, which are also available at <https://www.denix.osd.mil/denix/Public/Library/Explosives/UXOSafety/uxosafety.html>. Should you have any questions or concerns, please contact my Assistant for Munitions and Chemical Matters, Mr. J.C. King at (703) 697-5564, or email: [jc.king@us.army.mil](mailto:jc.king@us.army.mil).

Sincerely,

Addison D. Davis, IV

Deputy Assistant Secretary of the Army

(Environment, Safety and Occupational Health)

The poster features a red and black background with a yellow and green curved border. On the left, it says "If you did not drop it, do not pick it up!". The main text reads "UXO, Dud, Training Round, War Trophy, Souvenir NO MATTER WHAT YOU CALL THEM! THEY CAN BE DEADLY!". A central box lists the 3Rs: **RECOGNIZE:** The danger that a souvenir munition poses to yourself, your family and your neighbors; **RETREAT:** Do not disturb, touch or move it. Do not give or throw it away; **REPORT:** Call 911. At the bottom left, the 3Rs are listed with colored circles: Recognize (red), Retreat (yellow), Report (green). The poster is filled with various images of munitions, including a large round object, a pipe-like object, a round object in foliage, three small cylindrical objects, two grenades, a cluster of objects, a long cylindrical object, a large round object with a hole, a cylindrical object with a red cap, a cylindrical object with a red cap, a large round object, a cylindrical object with a red cap, a large round object, a cylindrical object with a red cap, and a large round object.

# Industry News

## *FY08 National Defense Authorization Act: SASC-Approved Version UXO/MMRP Related Provisions 12 June 2007*

### ***Funding for formerly used defense sites***

The budget request included \$250.2 million in Operation and Maintenance, Defense-wide (OMDW) for environmental restoration of Formerly Used Defense Sites (FUDS). The committee notes that the budgeted amount is below the level authorized for this program in fiscal year 2007. The committee understands that it is the Department of Defense's goal to achieve a remedy in place or response complete at all FUDS by 2020 under the Installation Restoration program for hazardous substances, pollutants, or contaminants. It is also the Department's goal to complete preliminary assessments at all FUDS by 2007, and complete site inspections at all FUDS by 2010, under the Military Munitions Response program for clean-up of unexploded ordnance.

The committee recommends an increase of \$20.0 million in OMDW to expedite the clean-up of FUDS and to move more aggressively to achieve the Department's goals. The committee expects the Department to demonstrate its commitment to these goals, and improve on them where it is possible to do so, by steadily increasing the amount of funding budgeted for this effort.

### ***Water remediation research***

The budget request included \$68.9 million in PE 63716D8Z for the strategic environmental research program. The committee understands that the Department of Defense has identified a large number of active and formerly used defense sites with issues of groundwater contamination. Many of these sites will require environmental remediation. To support those efforts, the committee recommends an additional \$2.5 million for water remediation research.

### ***Explosive ordnance disposal personnel***

The committee recognizes the strains experienced by explosive ordnance disposal (EOD) personnel in the wars in Iraq and Afghanistan. The committee applauds the professionalism, dedication, and skill of these highly proficient technicians and acknowledges the tremendous danger associated with bomb disposal missions.

The committee notes that, in addition to frequent combat tours with limited dwell time in the United States, EOD personnel are performing backfill requirements at military installations, as well as supporting the United States Secret Service in their mission to protect the President and other officials. The committee is concerned, however, that EOD personnel are being stretched too thin for their various missions. The committee therefore directs the Secretary of Defense to report to the congressional defense committees on the health and viability of the EOD force by March 1, 2008. The report shall: (1) evaluate whether the EOD force is properly sized, trained, and equipped for the tasks assigned; (2) analyze the sufficiency of pays and incentives available to EOD personnel in light of force requirements and recruiting and retention trends; (3) identify means to reduce operational demands on EOD units; (4) evaluate the need, feasibility, and costs associated with increasing the number of EOD units and personnel in the National Guard; and (5) evaluate the current placement of EOD units within each respective service, specifically evaluating whether EOD units and personnel are more properly organized under a joint command or the U.S. Special Operations Command.

### ***Readiness and environmental protection initiative***

The budget request included \$30.0 million in Operation and Maintenance, Defense-wide (OMDW) for the Readiness and Environmental Protection Initiative (REPI). The committee is encouraged that this is \$10.0 million more than requested in fiscal year 2007.

The committee believes that the military departments should continue to pursue voluntary agreements with other public and private entities as authorized under section 2684a of title 10, United States Code, to prevent the development or use of property that would be incompatible with the mission of an installation, and preserve habitat that is compatible with environmental requirements that might otherwise result in current or anticipated environmental restrictions on military bases.

The committee recommends an increase of \$20.0 million in OMDW for the REPI and directs that the military departments should give priority to projects that benefit critical mission training sites that have the greatest potential to prevent or reduce encroachment through the creation of a compatible use buffer zone.

One of the goals of NAOC's Government Affairs Committee is to raise awareness of the Munitions issues at the local and national level. We would like to begin circulating local articles relating to these issues and sharing them with others, including interested congressional delegates. Please share articles you may be aware of with Heather Polinsky or Victoria Kantsios, Government Affairs Chairperson.

As reported by John Bull in the Daily Press of Hampton Roads, VA.

- 1) Bombs Left Behind - Overview Article  
<http://www.dailypress.com/news/dp-22171sy0jun03,0,1936860.story>
- 2) Plum Tree Islands FUDS  
<http://www.dailypress.com/news/dp-plumtreejun04,0,3507709.story>
- 3) Fort Eustis MMRP & Mulberry Island Operational Range  
<http://www.dailypress.com/news/dp-mulberryjun04,0,7313402.story>
- 4) Buckroe Beach FUDS  
<http://www.dailypress.com/news/dp-24173sy0jun05,0,4820450.story?coll=dp-widgett-news>
- 5) Fort Monroe BRAC Munitions Issues  
<http://www.dailypress.com/news/dp-22173sy0jun05,0,3247584.story?coll=dp-headlines-topnews>

# Industry News

## MILCON FY08

Senate Bill 3834, The Military Construction Authorization Act for Fiscal Year 2008, outlines requirements for operational range reports for the Army and the Marine Corps. The Bill, if approved, would require the Army to assess the cost and potential military value along with the legal impediments regarding the expansion of the Joint Readiness Training Center at Fort Polk, Louisiana. The Army report would also include an assessment of the impacts to U.S. training facilities in Germany under the Integrated Global Presence and Basing Strategy.

The reporting requirement for the Marine Corps includes an assessment of the size, description, and mission essential tasks supported by each major Marine Corps operational range complex. The Marine Corps would also be required to project the deficit or surplus of land area as well a description of required range upgrades associated with each major operational range across the Marine Corps. The Bill would also require the Marine Corps to assess the cost and potential military value along with the legal impediments regarding the expansion of the Marine Corps Air Ground Combat Center Twentynine Palms, California.

## House MILCON Update

The House Report on the FY08 MilCon-VA Appropriations Act states, in part:

“The Committee is aware that there is a backlog of remaining requirements, particularly for cleanup of unexploded ordnance, for closed installations dating back to the 1988 BRAC round. The Committee is concerned about the slow pace of progress in remediating these properties and directs the Department of Defense to make funding for previous BRAC rounds a higher priority.”

The Committee then added \$50M to the BRAC 1990 account.

The House Appropriations Committee yesterday approved its version of the FY08 Military Construction-VA Appropriations Act, which includes BRAC funding. You will be pleased to know that the Committee recommended an increase of \$50M for “needed environmental cleanup for bases closed during the four previous BRAC rounds.” This is not precisely what we had requested — increased funds for UXO remediation — but it does reflect the Committee’s understanding that there is a serious environmental problem at legacy BRAC sites, for which I believe we can all claim credit and which is a solid basis for future action.

This information comes from the Committee press release and Chairman’s statement; the actual legislation and report are not yet online.

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## NAOC Photo Gallery -

Things that happened

Things that are going on

*We do not have any photos for this edition - but if anyone has photos from NAOC events please send to Cheryl Kennedy (ckennedy@pirnie.com) so she can post in the next newsletter.*

# Industry News

## EPA SURVEY REVEALS CONCERNS WITH EARLY MUNITIONS CLEANUP WORK

Some EPA regional offices and state regulators are citing numerous concerns over the way in which the Defense Department is handling its multitude of munitions-contaminated sites, alleging, for instance, that DOD's early assessments of potentially contaminated sites are inadequate, that staff and contractor resources for such projects are limited, and that the military's early assessment work at munitions sites has at times been inconsistent with EPA guidance, according to results obtained by Defense Environment Alert of an EPA survey of states and regional offices. At the same time, some EPA regions and states — Regions III, IV, VI, VIII, and IX and Nebraska, Oklahoma, Pennsylvania, Virginia and Wyoming — believe DOD's implementation of initial assessment work under its Military Munitions Response Program (MMRP) "is going well," the survey says.

EPA's Federal Facilities Restoration & Reuse Office distributed the survey last November seeking information from its regional offices and state regulators on DOD's MMRP program efforts. Several states and regions in the survey said they lacked information on MMRP site inventory and other activities. Regions II, III, VI, and IX, and Alabama, Alaska, Idaho, Illinois, Maryland, Massachusetts, New Hampshire, Ohio, and Rhode Island, as well as the District of Columbia and Puerto Rico, cited a need for more information. The report on the survey cites as common challenges: limitations on regulators' resources for overseeing MMRP work; deficiencies in the scope of preliminary assessment and site assessment work, including inconsistencies with EPA guidance; the need for better MMRP inventory data and for training related to munitions site cleanups; and the need for "better direction" from EPA headquarters to regional offices. The report appears to substantiate long-held concerns from regional and state managers over the military's ability to sufficiently meet ambitious cleanup deadlines mandated by Congress. DOD is currently in the early assessment stages for many of its munitions-contaminated sites.

Many of the problems relate to the Army Corps of Engineers' management of the cleanup program for formerly used defense sites (FUDS). The Corps acknowledges that there are problems, notably a lack of funds, to get the job done — both for the Corps and for state regulators charged with oversight of the work. DOD plans to seek \$40 million in additional money above the amount requested in February in the president's FY08 defense budget for the Corps to address FUDS in 2008. [Defense Environment Alert, Vol.15,No.10, 15 May 2007]

## DOD EXPECTS TO MEET SOME MANDATED UXO CLEANUP DEADLINES

A new report from DOD shows that while the military will generally meet an upcoming congressionally mandated deadline for identifying munitions-contaminated sites, it will fail to meet a second key cleanup goal for further investigation and sampling of a large segment of these sites. The findings respond to deadlines — originally established by the Pentagon — that Congress mandated in law last year, despite the Bush administration's opposition to codifying the timeline, which affects munitions-contaminated sites on former, closed and closing bases and ranges. The Bush administration last year fought Congress over the incorporation of the deadlines into the Fiscal Year 2007 Defense Authorization Act, arguing that the schedule was not realistic. The law also mandated DOD report its progress this year. The report states that 98 percent of preliminary assessments will be complete by the end of this year — the congressionally mandated deadline — for active installations, and 100 percent for formerly used defense sites (FUDS). The requirement does not apply to operational ranges. According to the report, 78 percent of active installations and 71 percent of FUDS properties are projected to complete their site inspection (SI) by FY10, while the goals set by Congress require 100 percent of the site inspections to be complete by then (see References for Additional Reading).

The FY07 Defense Authorization Act also set a goal of achieving the final steps in the cleanup process, dubbed remedy in place/response complete, by the end of 2009 for munitions response areas on military bases closed under the first four rounds of BRAC. The DOD report does not say whether that goal will be met. Rather, it says "DOD continues to develop program goals and performance measures as [munitions response sites] are prioritized and munitions response actions are sequenced." As required by Congress, the report also estimates the costs of completing the UXO remediation process, previously estimated at between \$8 billion and \$35 million. DOD now estimates the figure for cost-to-complete at all active installations and FUDS properties to be \$17.8 billion, which includes \$3 billion for the Army, \$619 million for the Navy, \$1.5 billion for the Air Force, and \$12.7 billion for FUDS. In addition, it estimates cost-to-complete estimates for BRAC rounds I-IV will total \$902.21 million. [Defense Environment Alert, Vol.15,No.9, 1 May 2007]

# Industry News

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 allow private parties to recover expenses associated with cleaning up contaminated sites.

**SUPREME COURT OF THE UNITED STATES**  
CERTIORARI TO THE UNITED STATES COURT OF APPEALS FOR  
THE EIGHTH CIRCUIT

No. 06-562. Argued April 23, 2007—Decided June 11, 2007

The Supreme Court affirmed the rights of Partially Responsible Parties (PRPs) and private parties to seek cost recovery of voluntary cleanups from other PRPs, including the United States government. In the unanimous ruling the Justices said the federal Superfund law does allow lawsuits to recover costs incurred in voluntary cleanups. Previously, it was the position of the government that cost recovery was only reasonable if the cleanup was under regulatory agency enforcement, a condition not routinely encountered. There are hundreds of thousands of contaminated sites and only small percentage are brought to regulatory enforcement each year. The Department of Defense (DoD) alone has a reported environmental liability of \$300 billion of investigation and cleanup with at least \$18 billion on formerly used defense sites that have transferred out of DoD control to private parties or other government agencies.

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**SUPERFUND: Companies can sue government to recoup cleanup costs, Supreme Court rules**

Lucy Kafanov, *Land Letter* reporter

This story first appeared in [E&ENews PM](#).

Companies may sue the federal government to recoup the cost of voluntarily scrubbing hazardous waste sites, the Supreme Court said in a unanimous [ruling](#) Monday.

The ruling is seen as a major financial blow to the Pentagon, which faced \$305 billion in environmental liabilities at the end of fiscal 2006, defense contractor Lockheed Martin said in a brief.

In *United States v. Atlantic Research Corp.*, companies sought the right to sue other potentially responsible parties (PRPs) to recover cleanup costs under the Superfund law before U.S. EPA takes legal action against them. Under Superfund, owners and operators of a site can be held liable for cleanup costs, even if another entity contaminated the site.

“The government’s interpretation makes little textual sense,” Justice Clarence Thomas wrote in the opinion. “Moreover, the statute defines PRPs so broadly as to sweep in virtually all persons likely to incur cleanup costs.”

In the 1980s, Atlantic Research had a federal contract to retrofit rocket motors for DOD at the company’s Arkansas facility, which later became contaminated with rocket propellant and was added to EPA’s Superfund list.

Atlantic Research and other owners of Superfund sites argued that more sites would be cleaned up if owners have a right to share the costs before EPA sues them.

But the Bush administration had said that Congress intended to allow companies to recover costs only if they were sued by EPA or if they settled with the agency.

The government argued that this ruling would be contrary to Congress’s intent for; government supervised cleanup, would increase the number of law suits and discourage settlement of contamination issues among PRPs and regulatory agencies. Proponents argued that this ruling would stimulate voluntary cleanup and the redevelopment of contaminated property.

The case heard by the Court included an Arkansas rocket manufacturing site that was cleaned up under a voluntary action by a company. The rocket motor retrofitting work competed at the Shumaker Naval Ammunition Depot; a facility operated by the Department of Defense was being done under a government contract. The private company was seeking cost recovery from the government after completing environmental restoration on the property. In his Opinion, Justice Clarence Thomas said “plain language” of the law authorizes cost-recovery actions by any private party.

*Summarized by: Mr. Larry Sievers, Program Manager*  
*Malcolm Pirnie, Inc. (949) 450-7952 or lsievers@pirnie.com*

According to administration lawyer Thomas Hungar, allowing companies to sue prior to EPA action “would frustrate Congress’ clear intent to encourage settlements with the government in order to achieve supervised effective cleanups.”

**Dueling statutes**

The matter came before the Supreme Court in 2004. In *Cooper Industries v. Aviall*, the court held that only PRPs that had been sued by the government, and not companies conducting voluntary cleanups, could seek cost recovery under Section 113 of the Superfund law. But the justices left open the question of whether another provision, Section 107, allows cost recovery from voluntary action.

When the case was argued before the high court in April, Justice Ruth Bader Ginsburg said the government has no incentive to take enforcement action when it can lose billions if the cleanup company then sues to recoup costs. That was also the position taken by the 8th U.S. Circuit Court of Appeals, which ruled in favor of Atlantic Research.

“The United States is a big polluter [and] could avoid its own responsibility by not bringing any enforcement action and by not settling,” Ginsburg said.

The issue has attracted the attention of House Energy and Commerce Committee Chairman John Dingell (D-Mich.). Earlier this year, Dingell asked EPA for a list of court cases involving PRPs seeking to recover costs, but agency said it has not been tracking such cases, a Democratic aide said.

The Supreme Court ruling has taken “some of the steam out of the issue,” the aide said, adding that lawmakers are unlikely to address the issue soon. “The court laid out the two procedural mechanisms for contribution and cost recovery and so there shouldn’t be any bar to voluntary cleanups,” the aide said.

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### From the Editor

Please submit your press releases and articles to [ckennedy@pirnie.com](mailto:ckennedy@pirnie.com), or you can mail them to Cheryl Kennedy, Malcolm Pirnie, Inc., 104 Corporate Park Drive, White Plains, NY 10602. The deadline for the next Newsletter is October 1, 2007. Comments and suggestions are welcome!

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