

A NOTE FROM THE PRESIDENT

January 2012

Happy New Year. I want to thank all of you for your participation at our 2011 General Membership meeting in November. We were in a great location with great speakers and significant member participation. Your candid feedback allows us to improve the meeting and make it better in the future. In December, we awarded our NAOC Leadership Award at the Military Munitions Support Services (M2S2) Workshop to Mr. Doug Lamothe (Industry Recipient) and Mr. Chris Penny (Government Recipient). I want to congratulate these two individuals for their professionalism and tireless work in support of the Munitions Response program.



Victoria Kantsios

As we begin 2012, our planned activities include:

- Monitoring the Department of Defense FY2013 budget, specifically the Defense Environmental Restoration Program accounts
- Publishing the NAOC Practices and Methodologies Manual
- Commencing a Communications Analysis to determine methods to effectively communicate with internal and external stakeholders
- Continuing Partnering Sessions with Department of Defense personnel
- Coordinating with the Environmental Security Technology Certification Program (ESTCP) on the use and application of advanced geophysical sensors and classification methods on Munitions Response projects
- Promoting NAOC as a global organization

None of these activities will be successful without your involvement. Our first event will be the annual Fly-In scheduled for 6-7 March 2012. If your schedule allows, please consider coming to Washington, DC to promote the importance of funding the Munitions Response program to Congress. If you cannot come to Washington, there are ways you can assist from your home. Feel free to contact Eric Spillman or Marlene English (Brown Rudnick) for additional information.

I look forward to serving as your President in 2012 and hope to see many of you at the Fly-In in March.

Victoria

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NAOC's Vision: To advance NAOC as the global leader for munitions response services.

We had a great turn out at the 2012 NAOC Annual Meeting, which was held in New Orleans, LA on November 1st to 3rd, 2011. Key senior level speakers from each of the services provided exciting and informative presentations, focusing on our theme of “Outreach”. All presentations are posted on the NAOC website (www.naoc.org). The meeting concluded with the election of the 2012 Board of Directors. Eleven firms were elected, as were the Officers and Committee Chairs. I encourage those of you with time or the desire to consider participating in one of these committees. Thank you to all past participants, and welcome to all of those who hold new positions in the Association.

2012 NAOC Officers

Ms. Victoria Kantsios, URS Corporation
President

Mr. Ryan Steigerwalt, Weston Solutions
Vice President

Mr. Joe Cudney, Parsons
Secretary

Mr. John Chionchio, USA Environmental
Treasurer

2012 Board of Directors

ARCADIS/Malcolm Pirnie
CH2M Hill
EA Engineering, Science & Technology
Environmental Chemical Corporation (ECC)
EOTI
JM Waller
Parsons
URS Corporation
USA Environmental
Weston Solutions
Zapata Incorporated

2012 Committee Chairs

Government Affairs
Mr. Eric Spillman, JM Waller

Operations and Standards
Mr. Rick Hanoski, EA

Technology
Mr. John Allan, NAEVA Geophysics

Member Services
Ms. Kyra Donnell, CH2M Hill

International Affairs
Mr. Mark Albe, ARCADIS/Malcolm Pirnie

Welcome New Members:

- UXO Global
- Burns & McDonnell Engineering Company, Inc.

2011 NAOC Leadership Award Recipients Mr. Doug Lamothe and Mr. Chris Penny

Each year, the NAOC recognizes a government/stakeholder representative and a current or former NAOC member for significant lifetime contributions to the Association and/or the munitions response industry through its Leadership Service Award. This year's awards were presented during the Military Munitions Support Services Workshop on December 6, 2011.



This year's industry/NAOC award recipient is **Mr. Doug Lamothe**, Federal Programs Manager for Munitions Response, ECC, Huntsville, Alabama. Mr. Lamothe's nomination was enthusiastically endorsed by this year's Leadership Award tiger team as he clearly brings a legacy of experience and knowledge to the NAOC and the MMRP. Mr. Lamothe served proudly and retired honorably from the US Marine Corps, where he achieved Master EOD Technician. Since that time, he has amassed over 45 years of combined EOD/UXO experience, serving in leadership roles ranging from Senior UXO Supervisor, Project Manager, Senior Program Manager, Vice President and President of several current NAOC member organizations. Mr. Lamothe was instrumental in the early formation of the NAOC, has been a member for 15 years and has served in a number of capacities including the Board of Directors, Vice President (3 years), Chairman of the Safety, Training & Standards, and the Operations & Standards Committees, member of the Government Affairs Committee, and on multiple Tiger Teams. Notably, Mr. Lamothe

participated in the initial and many following partnering sessions with Government that resulted in improved understanding and working relationships between Government and Industry.

This year's government award recipient is **Mr. Chris Penny**, recently retired from government service with the Navy and current employee of USA Environmental Inc., Virginia Beach office. Mr. Penny's MMRP resume is both extensive and distinguished. His leadership has advanced not just the Naval Facilities Engineering Command (NAVFAC) program, but the DoD's MMRP as a whole. Mr. Penny is recognized by the MMRP community for his vocal and visual presence within the MMRP. As the Program Manager/Program Coordinator for the NAVFAC, he coordinated the Navy's most complex MMRP on Vieques Island, Puerto Rico. Through his leadership, the Navy has been able to navigate the extreme political hurdles and technical challenges of the Vieques program and through his vision, the project site has served as a proving grounds to advance munitions response technologies and to demonstrate how community interests can be served through perseverance and communications. The Vieques Team subsequently received the 2009 Secretary of Defense Environmental Award for the Vieques Naval Installation. In addition, the Leadership Award recognizes Mr. Penny's support and participation in government sponsored forums, which have advanced the interests of the NAOC and broader industry. Mr. Penny's professionalism has been consistently demonstrated by his willingness to voluntarily provide presentations and share information at conferences, partnering sessions and NAOC meetings/functions.



"....I am truly honored to be recognized and selected by members of the National Association of Ordnance Contractors for the NAOC Leadership Award for government leaders contributing and supporting the advancement of the Military Munitions Response Program. I want to thank all from both government and industry who have contributed so much to the organization to help foster the relationships between government and industry in order to promote a collaborative platform allowing all of us to make a positive difference in advancing technology, explosive safety, policies, and regulations that are protective of the communities and environment where military munitions are present. Again, I sincerely appreciate and am honored to accept the NAOC Leadership Award for contributing to the advancement of the Military Munitions Response Program."

Thank you Speech By Chris Penny

"Thank you Victoria.

I would like to thank the NAOC Board of Directors and membership for this prestigious award, as it is truly an honor to be selected to receive the 2011 NAOC Leadership Service Award. I would also like to thank the leadership of ECC and the previous companies I have been associated with for allowing me the time and freedom to be an active participating member of the NAOC, and to thank my wife Betty for her support and understanding over the years.

When I retired from the Marine Corps as a Master EOD Technician in April 1985, there was no UXO or MMRP industry, but it was born in late 1985 and I have been involved in some capacity ever since. Over the years I have witnessed and been a part of significant industry growth, numerous changes in how we do our work, considerable advancements in technology and technical capabilities, and the building of trust and improved relationships between industry and our clients through partnering sessions and other collaborative efforts. I think this is the direct result of hard work, perseverance and continuously striving for improvement by hard working and talented individuals from both Government and Industry. I believe we have been and continue to be dedicated to making the world a safer place. I am proud to be a member of this community and feel blessed to have worked with some of the best talent in both industry and government along the way.

Being a member of the NAOC for the past 15 years and serving in a number of capacities such as a member of the BoD's, VP for 3 years, Chairman of the Safety, the Training and Standards, and the Operations & Standards Committees several times, as a member of the Government Affairs Committee and on multiple Tiger Teams, and for being selected to participate in the initial and following partnering sessions with our Gov't clients for several years at the pleasure of the Membership and the Board of Directors has always been both invigorating & personally rewarding. I am humbled and truly honored that you have selected me for this award. Thank you very much."

Thank You Speech By Doug Lamothe

**2012
UPCOMING EVENTS**

8-9 Feb	SAME Facilities Mgmt Workshop San Antonio, TX
12-17 Feb	USAF ESOH Denver, CO
28-29 Feb	Munitions Exective Summit Phoenix, AZ
6-7 March	NAOC Fly-In Washington, DC
8 March	NAOC -DoD Partnering Session Washington, DC
26-30 March	DoD EMDQ San Diego, CA
1-3 May	Global Explosive Ordnance Ft. Walton Beach, FL
21-24 May	E2S2 New Orleans, LA
21-24 May	SAME National (JETC) St. Louis, MO
6-7 June	ESTCP/NAOC Tech Transfer Denver, CO
27-29 Nov	SERDP/ESTCP Env. Symposium Washington, DC

NAOC will be conducting our 2012 Fly-In to Capitol Hill on 6-7 March 2012. This is your chance to meet with House and Senate leaders educate them of the importance of our industry: making lands safe for current and future use and providing jobs and economic stimuli in their respective districts, states, and acrosss the country.

The event begins at 1200 on the 6th and ends at 1700 on the 7th, so please plan to fly in the 5th or morning of the 6th and fly out the morning of the 8th so you can participate in the whole event.

Details will be forthcoming in the next couple of weeks; we are excited to have key MMRP/environmental leaders identified for presentations on the 7th.

TO REGISTER: Please complete and return the registration form on page 5 by 21 February 2012.

On behalf of the Government Affairs Committee and Brown Rudnick, we look forward to seeing you in March!

**NAOC/ESTCP
TECHNOLOGY TRANSFER WORKSHOP**
June 6-7, 2012
Golden, Colorado

Wednesday, June 6, 2012

- DoD, Regulatory, and Industry Perspectives on Emerging and Transferred Technology
- Results and Status of the Live Site Demonstrations
- The Current State of Underwater Technology
- Program and Project Management Implementation of Anomaly Classification
- Panel Discussion and Open Forum
- NAOC Social and Poster Exhibits

Thursday, June 7, 2012

- Outdoor Technology Demonstrations at the Denver Federal Center (morning)
- Classroom Tutorials (afternoon)
- Geosoft: Advanced Classification/ UX-Analyze
- Visual Sample Plan
- Geosoft: Tools for QA/QC of Geophysical Data



2012 Spring Meeting / Capitol Fly-In Registration Form
6 - 7 March 2012

Please Respond by 21 February 2012

Attendee Name: _____

Company Name: _____

Work Address: _____

If different, Corporate HQ Location with Zip Code: _____

Home Zip Code: _____ Email Address: _____

Work Phone: _____ Cell Phone: _____

Have you participated in a past NAOC Fly-In? Yes _____ No _____

List current contacts you have with Members of Congress/Senators or staff on UXO issues:

Is there anything we should know about your company that will help with scheduling visits on the Hill?

Please Mark Events You Plan to Attend:

Tuesday

Wednesday

___ Training/Orientation Session

___ Breakfast Gathering

___ Reception on Capitol Hill

___ Briefings

___ Congressional Office Visits

Other thoughts/comments:

Please return this form to Marlene English: Email (menglish@brownrudnick.com) or fax (202)536-1701

If you have any questions Marlene can be contacted by phone at (202) 536-1703.

NAOC Committees **Operations and Standards**

Operations and Standards

Rick Hanoski, EA
phone: 443.632.4887
email: rhanoski@eaest.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 Munitions Response programs and work sites.

Committee Members:

Sonny Richardson-Shaw
Doug Lamothe - ECC
Dennis Lecher-Advant
Mike Gronseth-MWH
Joe Riner - OER
Gene Barber - TLI
Mike Winningham - Zapata
Greg Peterson - ARCADIS/MP
Charles Baisey - TEXX
Wayne Matrildonno - BayWest
Jack Norris - AECOM
Dan Haines - Environet, Inc.
Al Larkins - Weston
Rafael Velazquez - ECC
Lanette Shea Waite - CH2M

This is the first Newsletter report for the 2012 current Operations and Standards Committee (OSC). As Committee Chairman, I would like to thank members of the OSC that were able to devote time, energy and personal commitment to deal with the various tasking's that we undertook this past year and look forward to the upcoming year. The committee has a number of new members, and we look forward to working together on our 2012 initiatives.

The 2012 committee has set its eyes upon even more initiatives such as topics and issues it looks like another exciting and challenging year for the committee. There have been several new initiatives proposed such establishing dialogs and collaborating with other similar organizations such as the International Association of Bomb Technicians and Investigators (IABTI), the International Society of Explosives Engineers (ISEE) and Institute of Makers of Explosives (IME), in order to open lines of communications on common topics or issues each organization may have and possibly unite on. Another initiative the committee is looking into is working closer with DoD Clients on operational topics and policy clarifications.

I would like to report that the committee is nearing closure on the "NAOC Practices and Methodologies Manual" so you can expect to see that in the very near future. The ATF Employee Possessor Portability is one that I am sorry to report is politically "stuck in the mud" for a number of reasons due to the current political climate and current investigation into the ATF. The committee will however continue to pursue this initiative.

Please keep in mind that this committee is for the membership and if there is anything that is of interest or concern please utilize this committee.

In closing, I would like to thank the NAOC membership for your continued support and for placing the Trust and Confidence in me to Chair this important committee for 2012.

NAOC Committees

Government Affairs Eric Spillman, JM Waller & Associates

phone: 703.912.2903
email: eric.spillman@jmwaller.com



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

Committee Members:

Jack Norris
AECOM
Terry Collins
Relyant
Kathleen Voigt
EA Engineering
Wayne Lewallen
EOTI
Alex Cota
ERRG
Greg Jacobs
ERRG
Kathryn Steele
EW Wells Group
Kate Hutson
JM Waller Associates
Heather Polinsky
ARCADIS/Malcolm Pirnie
Roberta Perry-Schlicher
ARCADIS/Malcolm Pirnie
James Kling
One Stop Environmental
Joe Cudney
Parsons
Michael Hoxie
Tetra Tech
Tom Rancieh
VRHabilis

Government Affairs

As the new Chair of the Government Affairs Committee for 2012, I want to thank Brenda Herman for her leadership of this Committee over the past two years. I also want to thank those individuals from member companies who volunteered to serve on the committee, members of the previous Boards, and of course Brown Rudnick – all of whom provided valuable input, support, and guidance on the various initiatives that were undertaken and completed.

In my mind, the long term value created by this Committee, Brown Rudnick, and the entire NAOC Membership is best exemplified by the following events that took place recently:

Earlier this year Brown Rudnick was alerted by Congressman Farr's office that an amendment was being introduced in the Rules Committee by Congressman Joe Wilson (R-SC) that would have reprogrammed \$197,000,000 from the ER- FUDS account to support storage of nuclear materials at Yucca Mountain . If ruled germane, the amendment would have been considered and voted on when the FY '12 Defense Authorization Act was considered on the House floor a couple of days later.

NAOC, in concert with Congressmen Blumenauer and Farr, was able to beat back this attempt. NAOC drafted a letter expressing its opposition to the amendment. The letter was circulated by Brown Rudnick to the Friends of NAOC House list. Congressman Wilson experienced such a backlash that he withdrew the amendment before it was ever even considered on the House floor. In the end, both the House and Senate set authorization levels at the President's Budget request: for BRAC 1990 at \$323,543,000 and for ER- FUDS at \$276,495,000.

Who among us would have imagined when we began our concerted efforts to engage with the Legislative Branch, that we would have the ability to respond so quickly and effectively to prevent the evisceration of one of the programs that is key to our collective businesses?

As the new Chair of this Committee, I look forward to continuing to build on the successes of the past years as exemplified above. My two first orders of business are putting together the new Committee membership and draft goals/initiatives to be reviewed by the Board, the Committee membership, and Brown Rudnick to ensure they take us in a direction for continued success. Look for those draft goals/initiatives for comment in mid-December!

Now, on to the legislative update... As often happens the Congress finished up the Authorization and Appropriations process in a flurry of activity just prior to the Christmas break.

Defense Authorization

On December 14th the House passed the Conference Report H. Rept. 112-329 to the FY '12 Defense Authorization Act. The Senate quickly followed suit on December 15th. Of specific interest to NAOC, the legislation authorized funding for FUDS and BRAC 1990 at the President's Budget request (see chart below). In addition, our technology report and MMRP language was included in the bill.

Appropriations

After much wrangling, on December 16th and 17th the House and Senate passed a Conference Report to H.R. 2055 the Military Construction and Veterans Affairs, and Related Agencies Appropriations Act, 2012. This legislation was an omnibus of the remaining 9 appropriations bills including Defense. This legislation contained a major victory for NAOC in the form of a \$50 million plus up in the FUDS account. It funded the BRAC 1990 account at President's request. The legislation did not include a provision proposed by the House rescinding \$100 million in unobligated balances from previous years available for the Base Realignment and Closure Account 1990.

Super Committee

On November 21st the Joint Select Committee on Deficit Reduction ("Super Committee") announced they were unable to come to an agreement to cut \$1.2 trillion from the deficit. This failure sets into motion automatic cuts that are set to take effect beginning January 2, 2013 – including \$500 - \$600 billion in defense cuts over the next 10 years. The fight over these cuts began well before the Super Committee admitted defeat. The White House indicated that it would reject any legislation to block the cuts. The real fight on Capitol Hill will commence with the President's State of the Union Address in January and the subsequent submission of his FY 2013 Budget in February.

FY 12 Authorization & Appropriation Status			
President's Budget	FUDS - \$276,495,000	BRAC 1990 - \$323,543,000	
	<u>House</u>	<u>Senate</u>	<u>Conference</u>
Defense Authorization H.R. 1540 S. 1253 S. 1867 H. Rep 112-329	Passed Subcommittee on 5/4/11 Passed Full Committee on 5/11/11 Passed Full House 5/26/11 FUDS - \$276,495,000 BRAC 1990 - \$323,543,000	Passed Subcommittee 6/14/11 Passed Full Committee 6/17/11 Passed Full Senate 12/1/11 FUDS - \$276,495,000 BRAC 1990 - \$323,543,000	Passed House 12/14/11 Passed Senate 12/15/11 FUDS - \$276,495,000 BRAC 1990 - \$323,543,000 Awaiting President's Signature
Defense Appropriation H.R. 2219	Passed Subcommittee 6/1/11 Passed Full Committee 6/14/11 Passed House 7/8/11 FUDS - \$276,495,000	Passed Subcommittee 9/13/11 Passed Full Committee 9/15/11 FUDS - \$326,495,000 (a \$50 million plus up)	See Omnibus Appropriations
Milcon Appropriation H.R. 2055	Passed Subcommittee 5/13/11 Passed Full Committee 5/24/11 Passed Full House 6/14/11 BRAC 1990 \$373,543,000 (\$50 million was reprogrammed from BRAC 2005)	Passed Subcommittee 6/28/11 Passed Full Committee 6/30/11 Passed Full Senate 7/20/11 BRAC 1990 \$323,543,000	
Continuing Resolution H.R. 2608 - through November 18, 2011 HR 2112 - through December, 16, 2011 H. J. Res 95 - Through December 23rd	FUDS - Funding levels are not directed. The agency decides spending levels	BRAC 1990 - Funding levels are not directed. The agency decides funding levels	N/A
Omnibus in the form of a Conference agreement on the FY '12 Military Construction-Veterans Affairs bill (HR 2055)	FUDS - \$326,495,000 (a \$50 million plus up)	BRAC 1990 - \$323,543,000	Passed House 12/16/11 Passed Senate 12/17/11 Awaiting President's Signature

Technology

At the recent NAOC General Membership meeting in New Orleans, I was elected Chairperson of the Technology Committee for 2012. It's good to be back! A busy and challenging year it appears it will be. Some of the most interesting developments from the New Orleans meeting speaker presentations were technology related. Herb Nelson, the program manager for MMRP for SERDP/ESTCP announced that their research and development, and demonstration / validation efforts through their live site demonstrations have shown that UXO classification technologies are ready for transfer to production remediation. Success was demonstrated at recent live site demonstrations at Camp Beale, California and Pole Mountain, Wyoming using the metal mapper data collection system and UX-analyze data processing software. Chris Evans from USACE headquarters followed Herb's presentation with the Corps' perspective on UXO classification. While many details need to be worked out, the message is that the Corps will be working towards implementing these UXO classification technologies on future projects. Jim Pastorick of UXOPRO, a consultant to many state regulators, commented that he believes UXO classification technologies will eventually be acceptable to regulators due to successful demonstrations and potential significant cost savings in remediation.

The next big news is that NAOC in conjunction with SERDP/ESTCP will be holding their third Technology Transfer (T2) workshop June 13-14 in Denver, Colorado. Similar to the last T2 workshops, there will be technical presentations in a meeting room(s) and outdoor field demonstrations of innovative technologies developed by SERDP/ESTCP. The agenda for the meeting is still being formulated, but it is envisioned that there will be opportunities for NAOC member companies to demonstrate technologies they may have developed independently of SERDP/ESTCP. Stay tuned for details.

I look forward to seeing you at any or all of the upcoming NAOC meetings.

Member Services

First, I would like to thank you, the NAOC membership, for allowing me the opportunity to serve you once again as your Member Services Chair. For those of you that are new to NAOC, Committee Chairs are nominated during the General Membership Meeting and any employee of a Member Firm is eligible to serve as a Committee Chair. For those of you who were able to join us in New Orleans for our recent General Membership Meeting, I hope you enjoyed the location and facilities as much as I did! Between Halloween, Bourbon Street and the LSU-Alabama show-down I trust everyone found something to entertain themselves. Our post-conference survey indicates that the great majority found the conference venue favorable and the presentations valuable. Survey results will be used to help shape future events and I truly appreciate those of you who provided feedback. Also, please note that there is a "Suggestion Box" tab on the main page of our website. Suggestions come to me directly and to our Secretary. Use this suggestion box at any time to help us help you!

As we come down off of our General Membership Meeting high, we have switched our focus to identifying our goals for this new year. Those goals will be presented and discussed at the next Board of Directors Meeting and I look forward to announcing those to you, along with progress in meeting those goals in our next Newsletter.

Before I close, I'd like to announce the addition of our most recent members (since the last newsletter): AHTNA Government Services Corporation, UXO Global and Burns & McDonnell Engineering Company, Inc. If you are aware of any firm that would benefit from joining NAOC, please let me know kdonnell@ch2m.com.

NAOC Committees

Technology

*John Allan,
NAEVA Geophysics
phone: 434.978.3187
email:*

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

*Kyra Donnell, CH2M Hill
phone: 865.560.2883*

email: kyra.donnell@CH2M.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.

International Affairs

I want to first thank the entire NAOC Membership for the opportunity to serve as the Chairperson for this important committee in 2012. I appreciate the vote of confidence and I look forward to working with both the Subcommittee Members and all member Firms in achieving the objectives of our committee. Since our Annual Meeting in New Orleans back in November 2011 I have had several meetings with my NAOC Board Sponsor Wayne Lewallen and I already appreciate his insight and guidance – thanks Wayne! We have sent out 2 emails to the entire membership (28 November and 12 December) looking for Volunteers to serve on the committee. I have received an excellent response and we will formalize the committee members by the end of the year. We have also taken an in-depth initial look at our overall subcommittee objectives:

- Promoting NAOC as a global organization by expanding membership internationally,
- Providing global leadership for technical and operational standards in the munitions response arena,
- Providing NAOC members knowledge of global opportunities for munitions response arena services.

During our first subcommittee conference call we will review these objectives, discuss other possible objectives, and gain final concurrence. Then the heavy lifting starts as we will begin to brainstorm and lay out action items to make measurable progress towards meeting these goals.

We have also started reaching out to several Government Guest Speakers responsible for International Programs to join us at our next Annual Meeting. As we all know this will be a great opportunity for the entire NAOC membership to learn about the overall Government International program and well as providing the ability to ask questions during the panel discussion. I will discuss with our committee members but we all know that munitions responses services extend beyond DoD and it would be very informational to understand these opportunities. Lastly, we also want to aggressively target International Firm's to become members of NAOC. The accomplishment of this objective means a transformation of our organization in many ways and these discussions are already occurring based on the results of our Annual Meeting.

It has been a challenging year given the economic uncertainties across the globe. However, as we can all attest our mission of cleaning up potentially dangerous munitions is important and our achievements make the world and better and safer place.

NAOC Committees

Special Committee for International Affairs

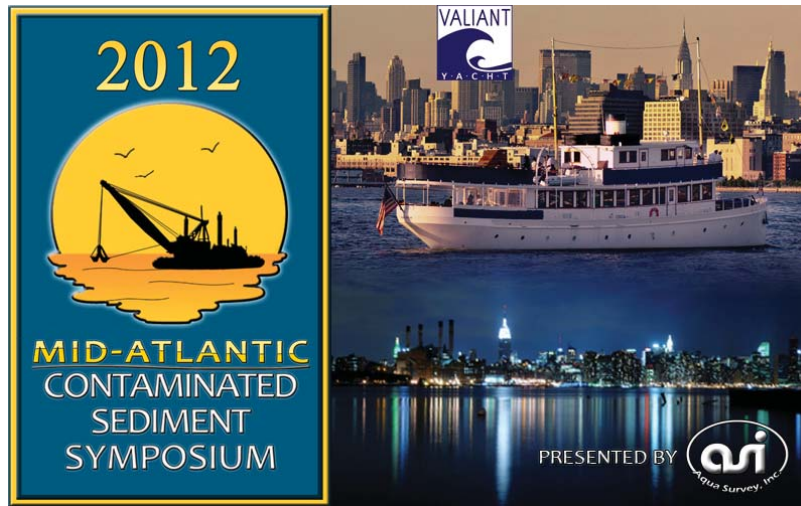
Mark Albe
phone: 410.230.9965
email: mark.albe@arcadis-us.com



Mission Statement:
To promote NAOC as a global organization by expanding membership internationally, providing global leadership for technical and operational standards in the munitions response arena and providing NAOC members knowledge of global opportunities for munitions response arena services.

Committee Members:

*Bob Ebberson - Schonstedt
Wayne Lewallen - EOTI
Cheryl Mahoney - TLI Solution
Kyra Donnell - CH2M Hill
Jonathan Sperka - HGL
Craig O'Rourke - AHTNA
Daniel Zugris - HDR
Mark Fletcher - EODT
Ray Peak - Battelle*



Aqua Survey, Inc. to host the Mid-Atlantic Contaminated Sediment Symposium

Aqua Survey will be hosting the Mid-Atlantic Contaminated Sediment Symposium to be held on March 28, 2012. With the New York City skyline as the meeting's scenic backdrop, the symposium will once again be held at the Liberty House Restaurant in Jersey City, NJ.

The Sediment Symposium brings together professionals from various disciplines that have worked and continue to manage contaminated sediment projects. At this symposium you will see and hear the application of science, engineering principles and technology in the assessment and management of contaminated sediments. Contaminants may include hazardous chemicals but also unexploded ordnance and munitions. Underwater munitions present both an explosive hazard as well as an environmental hazard associated with the release of the chemical constituents. Review the 2010 Sediment Symposium agenda on the Aqua Survey website to see past speakers.

Enjoy the atmosphere at the symposium as you network with colleagues and other managers at the Liberty House Restaurant in Jersey City, NJ. This location provides fabulous views of New York Harbor, the Manhattan skyline and the Statue of Liberty. Tantalize your senses with award-winning food and great service. Your enjoyment can only compliment your learning as you listen to the many sediment presentations. Visit the Liberty House website and plan out your directions to this out-of-the-way oasis. Speakers and Sponsors to the meeting will enjoy and even higher level of elegance as they embark on an evening 3-hour cruise of NY harbor aboard the luxury yacht the Valiant.

==► Abstracts are still being accepted for up to two speakers who can present a talk to address UXO/MEC as a sediment contaminant. Don't miss a great opportunity to present in front of a select audience.

It's Not Too Late! Interested in speaking or attending the 2012 Mid-Atlantic Contaminated Sediment Symposium? Contact Aqua Survey's Don Nazario (908-347-4104) today.

Robots invade Wyoming

August saw the technology boundaries of the UXO industry pushed to new limits at Camp Guernsey in southeastern Wyoming. The Robotic Range Clearance Competition (R2C2), sponsored by the Joint Ground Robotics Enterprise (JGRE) with collaboration from the Air Force Research Laboratory (AFRL) and U.S. Army Corps of Engineers (USACE), took place on the high plains of Camp Guernsey. The competition was used to determine the viability of commercial robotic technologies to increase the effectiveness and safety of four tasks common to most range clearance operations: 1) Vegetation Clearance, 2) Surface Clearance, 3) Geophysical Mapping, and 4) Subsurface Clearance. Three teams competed in the geophysical mapping portion of the competition which required the competitors to navigate a 1.6 acre area seeded with all three sizes of the industry standard objects.

Team UXOD, comprised of Zonge International, Kairos Autonomi, Autonomous Solutions, SAIC, and VKR, won the geophysical mapping event using the Zonge Dynamic NanoTEM (DNT) as well as the overall competition prize. Team UXOD used a Kubota RTV900 outfitted with the Pronto4 from Kairos Autonomi. Vehicle navigation was controlled through Autonomous Solutions' Mobius software.



Scoring for the geophysical mapping event was based on noise and detection capability, coverage, velocity control, and level of autonomy. Team UXOD surveyed 84% of the 1.6 acre area at a 0.35 meter line spacing in an 8-hour period equating to more than 16 line miles of driving (including turns). That line mileage equates to almost 11 acres of coverage in a single field day, assuming a 1.7 meter swath width from a typical 2-meter wide array. Analysis of the velocity showed that only 0.4% of the data exceeded the acceptable range of +10% of the 3 mph velocity set by Team UXOD. Two obstacles were placed in the grid to test the teams. The obstacles were accounted for during the path planning and were successfully negotiated by the vehicle. Detection criteria required that target selections be within 0.5m of the true location. Team UXOD identified 142 anomalies in the DNT data. Final scoring details for anomaly detection have not been released as of yet.



The team used a 3 person crew to monitor the tow vehicle and geophysical data acquisition. Integrated Wi-Fi in the DNT connection allows for a seamless integration into the radio network used to control the vehicle. Geophysical data were monitored in real time for positioning quality and noise in conjunction with vehicle speed and line path. With the right personnel and training, a two or three man crew could control and monitor upwards of three autonomous vehicles.

The competition showed that autonomous tow vehicles and the DNT are ready to be deployed onto range clearance projects today. This sentiment was echoed by Plyler McManus (USACE) in a recent presentation made where he indicated that geophysical mapping is "Effective and Ready" (http://www.same.org/images/stories/R2C2_SAME_Briefing_Rev_2.pdf)

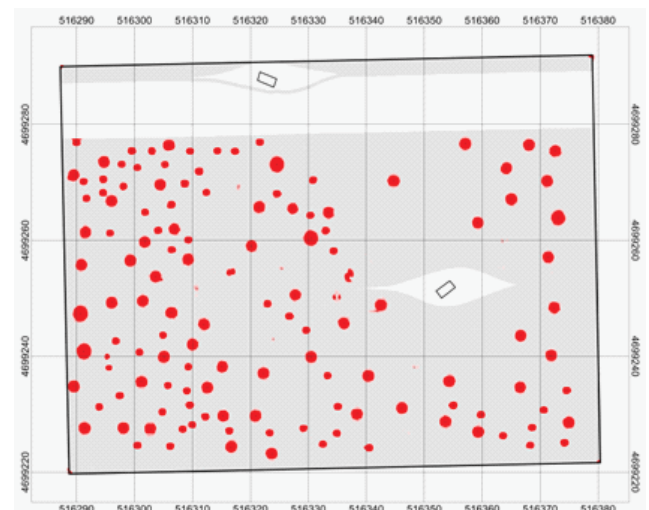
The competition provided a unique and challenging opportunity to demonstrate cutting edge technology that will provide increased cost savings for current and future range clearance operations. Team UXOD thanks the JGRE, AFRL, and USACE staff that planned, supported and directed the competition. More information on the competition may be viewed at www.roboticrange clearance.com.

Zonge International, Inc.
Todd Meglich
720-962-4444
todd.meglich@zonge.com

Autonomous Solutions, Inc.
Mel Torrie
435-755-2980
mel.torrie@autonomoussolutions.com

Kairos Autonomi, Inc.
Troy Takach
801-255-2950
troy_takach@kairosautonomi.com

SAIC, Inc.
Anthony Beamon
301-866-4113
david.a.beamon@saic.com



Hot Detonation Chambers Completed Job at Anniston Saves Time, Money & Reduces Risk

In September, the Anniston Chemical Agent Disposal Facility's (ANCDF) completed its mission by eliminating its stockpile of chemical weapons with the help of a hot detonation chamber. The mustard munitions stored here had presented a significant risk to the overall demilitarization program and a significant risk to the employees that would have to deal with them. This past year, the team successfully destroyed 2,737 aging chemical rounds and processed over 9,000 conventional rounds. Hot detonation chamber technology offers the advantage of increased safety and environmental performance at a reduced cost compared to other detonation chambers.



Munitions before and after processing

Hot detonation chambers have been designed specifically for the challenges of modern demilitarization. The destruction of munitions or energetic material is achieved by heating the item to a temperature above its thermal initiation point in a hot, armored chamber which results in detonation, deflagration, or oxidation of the energetic materials contained within the item.

Hot detonation chambers do not require the use of explosive counter charges to destroy munitions which reduces the risk of accidental explosions and unexpected environmental release. It also significantly reduces cost and logistic burdens. This solution eliminates worker or public exposure to explosive or environmental hazards at any time during operations. The technology also does not require disassembly or pre-treatment of most items before feeding into the unit, again improving safety and lowering costs. Lastly, the end product of the demil process is environmentally acceptable scrap metal (5X conditions). The process guarantees scrap is free from explosives and other organic contamination.

At Anniston, the hot detonation system used is a Static Detonation Chamber (SDC) model 1200 and is manufactured by Dynasafe. The SDC 1200 operates at a temperature of approximately 1022°F (550°C). The entire destruction process, from loading the munitions into the first loading chamber of the SDC until emptying of the detonation chamber, is carried out under gas-tight conditions, and is completely automated

The SDC, supplied to ANCDF by UXB International, Inc. is an excellent solution for demilitarization of conventional or chemical munitions. Munitions are fed “as is” and require no reconfiguration or reduction if their explosive weight is below the feed limit of the unit (with some exceptions such as shape charges). Munitions can be fed regardless of condition (rusted, corroded) or condition code. No “donor charges” are necessary. The SDC system drastically reduces handling of munitions which reduces risk. The system insures complete destruction in one step.



Static Detonation Chamber 1200 used at Anniston's Chemical Agent Disposal Facility

The SDC is presently approved by the Department of Defense Explosives Safety Board (DDESB) to process explosives and explosive containing munitions up to 1.0kg (2.2 lb) NEW mass detonating material (such as confined hazard class 1.1 explosives) or up to 6.0 kg (13.2 lb.) non-mass detonating material (such as Hazard Class 1.3 explosives) per feed cycle.

NAOC POC for UXB - Mr. David Douthat 540.443.3700 or david.douthat@uxb.com

Time Critical Removal Action (TCRA) at the Hawthorne Army Depot (HWAD)

This last year has taken TLI Solutions, Inc. (TLI) to various locations across the United States on various munitions related projects. One of the more interesting, ongoing projects is a Time Critical Removal Action (TCRA) at the Hawthorne Army Depot (HWAD) in Hawthorne, Nevada. North Wind, Inc. (North Wind) is the prime contractor for the effort under the ERS contract awarded through the U.S. Army Corps of Engineers - Sacramento District (USACE-Sacramento). TLI along with Tennessee based Munitions Management Group, LLC (MMG) is executing the site work at HWAD as a Joint Venture (JV).

HWAD has operated continuously, with various missions and oversight, since 1930 (at that time the installation was commissioned as the Naval Ammunitions Depot (NAD)). The southern extent of Walker Lake straddles the northern installation boundary, and was the site of several historical test ranges including the Walker Lake Water Test Range used between 1942 and 1975 to test rockets of various sizes up to 5-inch rockets. In addition, depth charges, including Projector Charge, 7.2-inch (Hedgehogs), and other unidentified munitions may have been used at the range. Walker Lake is receding, exposing old munitions located on the former lake bottom.

Field teams are staffed by the JV, and TLI has the additional responsibility of data management, tracking, and GIS integration. Since the project kicked off at the end of October- 2011, field teams have been working methodically to clear grids, demo MPPEH and escort DGM personnel.



3 HVAR rockets recently pulled from Walker

Site conditions have been highly variable with daily temperature swings of 30 degrees or more. High winds and driving sand have, at times, reduced visibility to a few feet forcing field operations to shut down. The sand has also impacted the team's ability to get vehicles, including our Mules, to and from the work area. Our UXO Techs have been especially challenged while clearing water portions of the site to water depths of 24 inches. The effort to clear munitions from the lake has been complicated by high winds, subfreezing temperatures and a silty lake bottom that makes wading off shore a challenge. While land-based operations have proceeded in a manner familiar to the UXO Techs, the water work has required an adaptive strategy to balance productivity and safety. Although there has been plenty of material to remove from the lake bottom, dozens of rocket bodies extending above the lake surface have garnered the most attention from visitors to the site. The method currently being utilized to remove the rockets involves remote pulling from shore with a Bobcat skid-steer loader. The highly saline lake water has severely corroded some of the munitions requiring careful evaluation by UXO team leaders. Once on shore, the munitions are evaluated and removed from the grid, consolidated for demolition or blown in place as necessary. To date approximately 2.25 acres of water grids have been surface cleared, approximately 16 acres of land based grids are cleared, and approximately 12 acres of DGM has been completed. Clearance operations and DGM data collection continue, and our dig teams will begin DGM target reacquisition and interrogation in the coming weeks. Although our current scope is based on clearing 40 acres of land and water, based on the volume of munitions being identified, the land area may increase. This project is currently anticipated to last until early spring 2012. Stay tuned for updates on this exciting project in the coming months.

NAOC POC for TLI: Mr. Gene Barber 303.763.7188 or gbarber@tlisolutions.com

Development of Airborne GPSAR as a UXO Solution

Mirage Systems, a small business and advanced technology developer, is continuing to expand its underground survey capabilities. In 2012, Mirage expects to introduce a simplified advanced airborne Ground Penetrating Synthetic Aperture Radar (GPSAR) technology suite as a field-ready UXO location and characterization tool. Previous efforts have produced successful system architectures for the Army CECOM Wide Area Airborne Minefield Detection (WAAMD), the DOD Joint IED Defeat Organization (JIEDDO), and DARPA's through-the-wall (TTW) programs. In addition to Defense-related applications, Mirage's generic demo system was deployed for Mineseeker Operations, UK, for location of buried anti-personnel mines in war-torn Croatia.



GT-500 Flight with GPSAR



GPSAR Box 1.3 cu ft/50 Lbs)

The immense development effort was required over the past decade to improve military tactical sensor operations. Improvements included providing three-dimensional target resolution, conducting operations from acceptable stand-off altitudes, expanding coverage volume (square miles/hr.), producing precise geo-location, providing near real-time results, and incorporating coherent change detection techniques. The levels of success achieved with the technology in a very demanding market opened up future options for scaling back the precision and infrastructural requirements to meet limited operating cost criteria for commercial

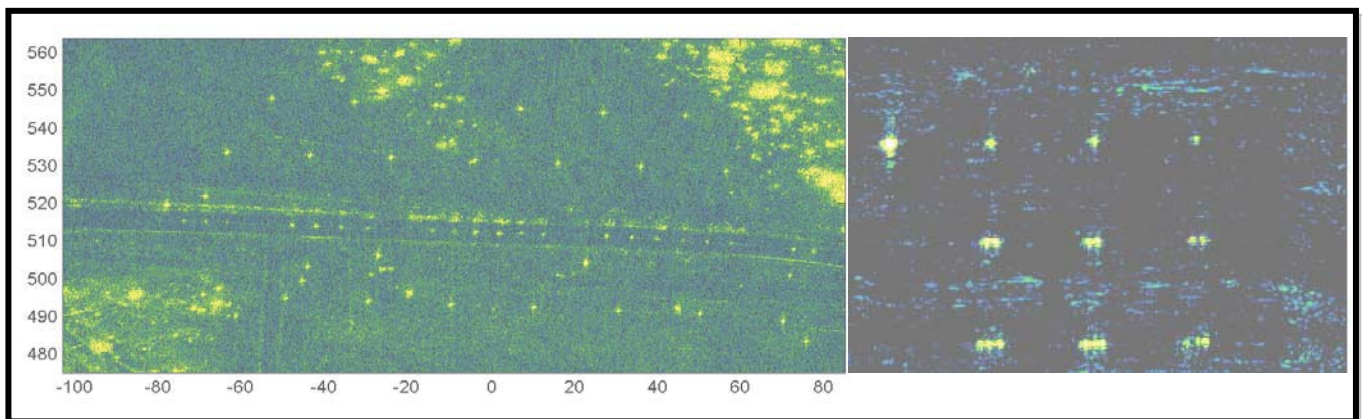
operations. This would apply to UXO as well as other sub-surface survey challenges such as pipe-line surveys and flood-control levee assessments.

An approach to high-survey efficiencies is to field the system on a small, standard aircraft such as the Robinson R-44 helicopter. While the system has also performed successfully aboard small fixed-wing and VTOL UAVs, FAA air space restrictions on UAVs have become a major obstacle.



Radome/Log Periodic Antenna

The GPSAR 300-3000 MHz chirped FMCW signal is transmitted and received monostatically at a 45 deg. inclination angle for optimal clutter rejection. Optimizing flight geometrics and antenna polarization makes a VTOL a more practical platform since it is able to switch coverage geometry from a strip mode (wide-area) to a circle-SAR mode (spotlight) to resolve uncertain detections in three dimensions (x, y, and z axis). Integration of an EO/IR co-sensor significantly enhances target characterization and discrimination capabilities of the GPSAR.



Surface and Sub-Surface Target Images Collected with Mirage's Airborne GPSAR

Solutions-IES Develops Sustainable Munitions Remediation Technologies

The transition of the Military Munitions Response Program (MMRP) from discovery and assessment to remediation has necessitated that the Department of Defense (DoD) find sustainable solutions to clean up residual contamination at both former and active training locations. Solutions-IES is widely recognized by DoD, through its work with the Environmental Security Technology Certification Program, as an innovative engineering firm who has developed several key technologies that help meet the goal.

An award-winning, 8(a)-certified, woman-owned environmental engineering firm, Solutions-IES' success stems from our ability to recognize and characterize environmental problems and develop and implement innovative remedial technologies to address them. Our recent advances with the remediation of perchlorate, a propellant found in munitions and explosives, underscore this capability.

Working closely with academic and DoD partners, Solutions-IES has shown that perchlorate can degrade biologically both naturally and when stimulated by the addition of organic substrate. Our research, development and publication of the protocol titled "Natural Attenuation of Perchlorate in Groundwater: Processes, Tools and Monitoring Techniques," validated Monitored Natural Attenuation (MNA) as a sustainable approach to cleaning up this emerging contaminant. By proving the effectiveness of MNA for perchlorate cleanup, we provided a solution with potential to reduce remediation costs by 50 to 65 percent at military and commercial installations worldwide, while protecting the health, safety and welfare of the public.



Solutions-IES scientists had their hands full collecting muck at low tide for a macrocosm study that was part of the perchlorate MNA project.

Solutions-IES' engineers and scientists also demonstrated that emulsified oil substrate (EOS®), which it designed, demonstrated and patented, can significantly enhance perchlorate removal in groundwater. The EOS® technology uses all natural ingredients, offering to a more sustainable approach to the widespread perchlorate problem. With worldwide acceptance, approval and use, this powerful approach is also applicable to a wider range of munitions constituents including RDX, HMX and TNT. Solutions-IES is presently engaged with its partners in developing and demonstrating a new sustainable technology applicable to former and active munitions training ranges. The successful deployment of a novel sorption approach will have far-reaching impact on protecting our groundwater resources without compromising military readiness.



Solutions-IES implementing a remediation pilot test using EOS

Solutions-IES continues to apply our understanding of sustainable remediation to complex contaminant issues facing the DoD. For additional information, or to discuss teaming or partnering opportunities, please contact Ann Borden.

Submitted by Solutions-IES, Inc.
NAOC POC for Solutions-IES: Ms. Ann Borden
aborden@solutions-ies.com or (888) 456-1060

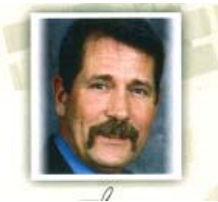


Jesse Sipult graduated high school in 1984 and joined the United States Marine Corps. During his career as a United States Marine, Jesse proudly served as an Explosive Ordnance Disposal (EOD) Technician where he had the privilege of working at the White House as a member of the the bomb disposal detachment. While at the White House, Jesse toured the country with the United States Secret Service providing support to Presidents Bush and Clinton. Jesse also served in Desert Shield and is a combat veteran of Desert Storm. While an EOD technician, Jesse completed a career broadening tour as a United States Marine Corps Drill Instructor, where he personally trained over 1,000 United States Marine Corps Recruits.

Jesse graduated from the Naval School Explosive Ordnance Disposal in 1990 and had over 20 years combined military EOD and civilian UXO experience. Jesse began civilian UXO work in 2000, where he served as a UXO Technician II, a UXO Technician III, a UXOQCS, a UXOSO, and a SUXOS. Prior to working with Ordnance & Explosives Remediation, Inc. Jesse worked with another NAOC member company, where he was instrumental in building their UXO Division from zero revenue, to an estimated \$4.5M annual revenue in less than 3 years.

Jesse Sipult began working for Ordnance & Explosives Remediation, Inc. November of 2009. At the time of his death on November 15th, 2011, Jesse was the Vice President of Ordnance & Explosives Remediation, Inc, where he was responsible for business development, proposals, and project management.

Jesse is survived by his 3 children, 2 step daughters, 2 grandchildren, 2 sons in law, and his love and best friend Rachel. Outside of his family, Jesse is survived by his coworkers, and his friends. He will be missed.



Mr. Noah Lee Sarvis

November 5, 1957 - September 16, 2011

Noah Lee Sarvis, 53, of South Carolina, passed away on Friday, September 16, 2011.

Noah served in the U.S. Navy for 22 years as a Master Explosive Ordnance Disposal Technician. He was a member of the Navy/Marine Corp EOD Association, Patriot Guard Riders, and American Legion Post #392 PC.

Noah loved to ride his motorcycle, enjoyed fishing and bring outdoors. He appreciated meeting people and never met a stranger.

Noah is surved by his wife of 23 years, Liz Sarvis; son Christopher Maulden (Jennifer); mother, Genette Taylor; brother, Rick Sarvis; sister, Jeanita vaughan; grandchildren, Madysen and DJ; mother-in-law, Betty Yancey; brothers, Robert Yancey (Crystal) and Victor Yancey (Holly), niece and nephews; Hunter, Addison and Catharine.

He was preceded in death by his father and brother.



SAMUEL JOHN HOOPER SR.,

Samuel John Hooper Sr., 65, of Colonial Beach, Va., formerly of Indian Head, Md. died on Oct. 27, 2011, at home. Born July 6, 1946, in Massachusetts, he was the son of the late Elmer Franklin Hooper and the late Ethel F. Hooper. Mr. Hooper was a 22 year U.S. Army Veteran. He served in the Vietnam War.

In addition to his parents he was preceded in death by his brother, Charles M. Thomas. He is survived by his wife of 47 years, Patricia Hooper of Colonial Beach; son Samuel J. Hooper Jr. and his wife Andrea; daughter, Dawn Harris and her husband Steve; and grandchildren, Stephanie, Makenzie, Timothy and Aidan.

Automatic Notification of Website Updates

The following instructions will allow you to set up and manage automatic notifications so that you are notified of any NAOC website (www.naoc.org) updates or postings:

- a. Verify that your email address is correct. Click on your name and My Settings. If the information is not correct or up-to-date, then click on Edit Item and make the corrections.
- b. Change the Time Zone to their local zone by clicking on My Regional Settings.
- c. Choose the library (i.e., General Documents) that you would like to be notified of updates in.
- d. Click on Actions then choose Alert Me.
- e. Make your selection for how often you would like to be alerted, then click 'OK'.

Alerts come in the form of emails. To manage your alerts, click on your name in the upper right corner, then click My Settings. Next choose My Alerts.

If you have any questions, please do not hesitate to contact Jeremiah Hartzell at jhartzell@zapatainc.com.

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From the Editor

Please submit your press releases and articles to
 cheryl.hurns@arcadis-us.com

Comments and suggestions are welcome!

President

Victoria Kantsios, URS Corporation
 victoria.kantsios@urs.com 703.418.3030

Vice-President

Ryan Steigerwalt, Weston Solutions
 ryan.steigerwalt@westonsolutions.com 410.612.5940

Secretary

Joe Cudney, Parsons
 joseph.cudney@parsons.com 678.969.2344

Treasurer

John Chionchio, USA Environmental, Inc.
 jchionchio@usatampa.com 813.343.6350