

Containing the Threat

2010 Annual Report

Office of Nonproliferation and International Security (NIS)
National Nuclear Security Administration
Defense Nuclear Nonproliferation

Office of Nuclear Safeguards and Security

The work of the NIS Office of Nuclear Safeguards and Security is conducted under the umbrella of NSG and the International Nuclear Security Program. In FY 2010, the office developed the personnel, technology and transformational concepts needed within the international safeguards and security systems to meet new proliferation challenges. Selected accomplishments are described below.

Safeguards Human Capital Development

The NSG Human Capital Development (HCD) sub-program investments in university students and young professionals focus on recruiting, educating, training, retaining and promoting the next generation safeguards workforce. In the face of growing domestic and global demand for nuclear energy, the international safeguards community faces a critical human capital challenge. A recently completed NSG study revealed that within 15 years, an estimated 82 percent of the current international safeguards specialists supporting NSG-sponsored projects at U.S. National Laboratories will have left the workforce. Likewise, several IAEA reports, statements and growing anecdotal evidence suggest a significant percentage of IAEA and European safeguards experts will retire soon as well. In 2008, IAEA officials estimated that more than a third of senior IAEA staff is expected to retire by 2011 and more than half by 2013.

In FY 2010, the HCD sub-program sponsored 136 students from 63 universities in summer safeguards internships at U.S. National Laboratories. Additionally, six summer safeguards policy and technical courses ranging from one to three weeks in length were organized for university students and young professionals. These internships and summer courses have been at the heart of efforts to attract and train a new generation of safeguards professionals. Of past NSG interns (in 2008 and 2009), approximately one-third returned to the National Laboratories to continue working on safeguards projects in 2010. Others have converted to Laboratory staff, while one in five is now pursuing a graduate degree with a nonproliferation-related focus.

The HCD sub-program also funded post-doctoral fellowship positions at eight National Laboratories supported visiting Laboratory expert lecturers at more than 20 universities, worked with nine universities to develop new undergraduate and graduate-level coursework on international safeguards and nonproliferation, and initiated a Nuclear Nonproliferation and International Safeguards (NNIS) Graduate Fellowship program, which in the fall of 2010 began fully funding up to four years of graduate study for ten fellows.

Safeguards Technology Development

The NSG Safeguards Technology Development sub-program develops advanced technologies and applications to improve the overall effectiveness and efficiency of safeguards implementation at both the facility and state levels.

ANNUAL REPORT

Office of Nuclear Verification

The NIS Office of Nuclear Verification negotiates, monitors and verifies compliance with nonproliferation and arms control treaties and agreements. Highlighted below are several FY 2010 accomplishments.

New START Treaty

President Obama and Russian President Medvedev signed the historic Measures for the Further Reduction and Limitation of Strategic Offensive Arms—also known as the New START Treaty—in Prague on April 8, 2010. The Treaty between the United States and the Russian Federation was developed and negotiated with significant involvement from the NIS Office of Nuclear Verification.

New START is a bilateral nuclear arms reduction treaty that will replace the 1991 START Treaty which expired in December 2009, and will supersede the 2002 Strategic Offensive Reductions Treaty or Moscow Treaty. New START will reduce strategic delivery vehicles by more than 50 percent compared to START and will reduce deployed strategic nuclear warheads by 30 percent compared to the Moscow Treaty. Specifically, New START limits deployed and non-deployed launchers of intercontinental ballistic missiles (ICBMs), submarine-launched ballistic missiles (SLBMs), and heavy bombers to 800; deployed ICBMs, deployed SLBMs, and deployed heavy bombers to 700; and deployed strategic nuclear warheads to 1,550.

NIS served as the DOE/NSA lead for New START negotiations, participated in key aspects of U.S. policy development, and was responsible for specific elements of the negotiation activities in Geneva from the beginning. Throughout the ten-month negotiation, NIS headquarters staff from the Warhead and Fissile Material Transparency (WFM/T) program supported the Geneva-based team and the broader U.S. interagency by providing much back into NSNA, working with the Office of Defense Programs and other NNSA elements to develop and coordinate positions, providing guidance to the delegation, advocating NNSA positions within the U.S. interagency, and preparing for the treaty's eventual signature and ratification.

NIS, working with the Office of Defense Programs and other NNSA elements, supported the larger U.S. interagency effort to shepherd the New START

Office of Nuclear Controls

The NIS Office of Nuclear Controls builds global capacity for preventing theft, diversion and spread of WMD materials, equipment, technology and expertise. Office programs focus on both international and domestic engagement through workshops, seminars and technical trainings and emphasize long-term sustainability. Several FY 2010 accomplishments are described below.

Confidence-Building Measures

The NIS Confidence-Building Measures (CBM) program works on a regional and bilateral basis to help develop technical expertise capable of addressing regional security concerns and proliferation threats while enhancing transparency at the working level.

Since 2005, CBM's nuclear forensics initiative has supported U.S. and international efforts to deter illicit trafficking of nuclear and radiological materials through increased bilateral and regional data-sharing, research collaboration, and strengthening global capacity for effective forensics analysis. CBM has shown early success in its forensics projects in Central Asia, where work has included collecting nuclear forensics data in Tajikistan and Kyrgyzstan on samples of uranium ore, uranium ore concentrate, and uranium ore tailing.

In 2010, CBM expanded its engagement in Central Asia to include technical cooperation with Uzbekistan's Institute of Nuclear Physics of the Uzbekistan Academy of Sciences (INP-UZ). With INP-UZ, CBM will select a representative set of samples that will be analyzed jointly for isotopic, chemical and/or physical signatures as a means to share analytical techniques and methods and help INP-UZ develop standardized approaches to nuclear forensics measurements.

CBM also initiated discussions in 2010 with France, Russia, Australia, South Africa and Japan to promote technical collaboration in nuclear forensics. Joint activities will include analytical method sharing, development of national forensics libraries, and "round robin" exercises with nuclear materials from across the fuel cycle. Other activities may include cooperative research and development to develop tools for determining nuclear material provenance including linking or excluding forensic data from interdicted samples with data from validated signatures.

As another important element of DOE/NSA's comprehensive approach to combating the threat of nuclear proliferation, CBM's engagement with the Middle East Scientific Institute for Security (MESIS) in Amman, Jordan, continues to serve as a touchstone for enhancing regional science and technology cooperation to address common security concerns.

In 2010, CBM organized, in partnership with MESIS, the first joint DOE/Middle East Scientific Institute for Security (MESIS) technical workshop to enhance national capabilities of state signatories in the Middle

Join us
at
**Art
JAM**
our open studio

From left, clockwise:
Jennifer Lovejoy, Ann Reardon, Martha Olson, Martha Dillard, Judy Schwab, Ali Wieboldt

Sunday, October 17
one to six o'clock

3107 Old Farm Road in Blacksburg

540.552.7161 • ARTJAM2.com

Click on either Art JAM image to view entire brochure.

You Are
Invited
to
**Art
JAM**

**an Open Studio
at the home of Martha Olson**

Sunday, October 17
from one to six o'clock
3107 Old Farm Road in Blacksburg

For the third year, six friends whose first name initials spell JAM are showing and selling their art work. They are
Jennifer Lovejoy and Judy Schwab
Ali Wieboldt and Ann Reardon
Martha Dillard and Martha Olson

Come to enjoy art and architecture (Jennifer designed the Olson house), light refreshments, and catch up with the artists. Since last year's Art JAM, the group has shown their work together at Piedmont Arts Association in Martinsville and Alleghany Highlands Arts and Crafts Center in Clifton Forge. Their next group show will be at the Blacksburg Presbyterian Church, December 2010 through February 2011.

Oracle Winner
12" x 12"
acrylic
by Martha Dillard

Three Sisters
30" x 25"
altered paper and ink
by Martha Olson

Copper Block 42
6" x 6"
copper on panel
by Judy Schwab

Raku
33" x 21"
textiles
by Ann Reardon

Bottle-nosed Dolphin
11 1/4" x 2"
Sterling silver, acrylic painting on palm seed, aquamarine, and opals
by Ali Wieboldt

Passing
15" x 10" x 10"
Colorado Alabaster
by Jennifer Lovejoy

540.552.7161
ARTJAM2.com

BROCHURES

Disasters can disrupt lives.

After a major disaster, such as a hurricane, flood, wildfire, volcano, tsunami, or terrorist event, the Navy must account for the location of all personnel and their families and assist those in need.

The Navy Family Accountability and Assessment System (NFAAS) is a web-based tool that the Navy uses to account for, assess, manage, and monitor the recovery process of personnel and their families affected by a widespread catastrophic event.

After a declared disaster, log into NFAAS to muster and report your needs. If an Internet-ready computer is not accessible, call the Navy Personnel Command Emergency Coordination Center at 1-877-414-5338 or 1-866-297-1971 (TDD).

UPDATE
Your Information in NFAAS
Before Disaster Strikes!

Don't wait until it's too late

Update NFAAS Before a Disaster

Report Your Status and Needs

Other Resources
Fleet & Family Support Program
www.cnrc.navy.mil
Look under the "What We Do" tab

NFAAS NAVY FAMILY ACCOUNTABILITY and ASSESSMENT SYSTEM
https://navyfamily.navy.mil

UPDATE
Your Information in NFAAS
Before Disaster Strikes

Log into NFAAS using the **Click Here** button.

There are three login methods:

- Common Access Card (CAC)
- Username and Password
- Personal Information

You must login with a CAC to view and update your personal information.

REPORT
Your Status and Needs
After a Declared Disaster

Following a declared disaster, login to NFAAS to muster and report your status. Follow the four steps under the **Update Info** tab. Indicate your new location if you have evacuated and complete the 19 questions on the Needs Assessment Survey if you have Medical, Permanent Housing, Financial Assistance, Family Employment, Child Care, School, Legal Services, Religious, Counseling, and other needs.

Based on the type and severity of the needs, a Fleet and Family Support Center representative will be in contact with the affected Navy personnel and their families to determine the appropriate response or assistance needed for recovery.

REFERENCES
for Planning and Recovery
Anytime

Under the **Reference** tab, you can access information and tools such as local and military support phone numbers, emergency-related fact sheets, resource guides, and Web links.

Use this information to plan ahead for emergencies or after a disaster to link to resources to aid your recovery.

https://navyfamily.navy.mil

BROCHURES



Navy Safe Harbor brings resources together to provide support and assistance to seriously wounded, ill, and injured Sailors, Coast Guardsmen, and their families. Using a holistic approach, Navy Safe Harbor provides personalized assistance throughout all phases of the service member's recovery, rehabilitation, and return to duty or community reintegration.

Navy Safe Harbor Non-Medical Care Management

Navy Safe Harbor Non-medical Care Managers and Recovery Care Coordinators tailor support to each enrolled service member's needs. Support includes:

- comprehensive recovery plan development
- pay and personnel issues
- invitational travel orders
- lodging and housing adaptation
- child and youth care
- transportation needs
- legal and guardianship issues
- education and training benefits
- commissary and exchange access
- respite care
- TBI/PTSD support services
- transition assistance
- and much more

Eligibility
Safe Harbor enrollment is open to all seriously wounded, ill, and injured Sailors and Coast Guardsmen. Enrollment is open to:

- OIF/OEF casualties
- Shipboard accidents
- Liberty accidents
- Serious medical and psychological conditions (cancer, severe PTSD)

Enrollment
Enrollment in Navy Safe Harbor is voluntary. Sailors and Coast Guardsmen may be referred to Navy Safe Harbor through a variety of sources, including their medical team. Families and individuals may self-refer for enrollment through Navy Safe Harbor's 24/7 toll-free line, 877-746-8563; or by sending an inquiry to safeharbor@navy.mil.

Enrollment Benefits

- 24-hour Call Center
- Individually Tailored Support
- Comprehensive Recovery Plan
- Lifetime of Care

877-746-8563
safeharbor@navy.mil
www.safeharbor.navy.mil



Locations

Navy Safe Harbor Recovery Care Coordinators and Non-medical Care Managers are located throughout the continental United States.

- National Naval Medical Center Bethesda, Md.
- Navy Hospital Bremerton, Wash.
- Navy Hospital Great Lakes, Ill.
- Naval Hospital Jacksonville, Fla.
- Navy Health Clinic New England, Newport, RI
- Naval Medical Center Portsmouth, Va.
- Naval Station Norfolk, Va.
- Naval Hospital Camp Lejeune, NC
- Naval Medical Center, San Diego, Calif.
- Brooke Army Medical Center,

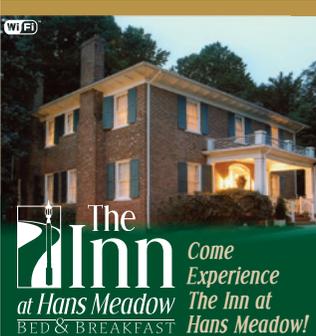
Recovery Care
Centers
San Diego, Calif.;
St. Louis, Minn.




Through proactive leadership, Navy Safe Harbor provides a lifetime of individually tailored assistance designed to optimize the success of our shipmates' recovery, rehabilitation, & reintegration activities.

Providing non-medical care for seriously wounded, ill, and injured Sailors, Coast Guardsmen, and their families.

877-746-8563
safeharbor@navy.mil
www.safeharbor.navy.mil

The Inn at Hans Meadow
Come Experience The Inn at Hans Meadow!
BED & BREAKFAST



The perfect place for your leisure stay or the wedding of your dreams.

This 160 year-old mansion offers the classic elegance of a 19th century home as well as the convenience and technology of a 21st century inn. Rich in history, this bed and breakfast is tucked away on 3 acres of land. Guests can enjoy a walk in our English Garden featuring 25 species of trees not native to Virginia, and an English Boxwood maze over 100 years old. The beautiful fishpond featuring a waterfall is a lovely place to relax and enjoy bird watching.

Online reservations available at www.theinnathansmeadow.com

Click on either The Inn image to view entire brochure.

History of the Inn

In 1754 John Craig built a log home on his 400 acre site that became known as Hans Meadow. The Craig family operated a tavern at this site from the end of the Eighteenth century until 1845. The seventh President of the United States, Andrew Jackson, once stayed at the tavern. John and wife Mary Cox, continued to expand the size of the estate, and by 1782 had accumulated over two thousand acres. John Craig's house became the main crossroads for travelers and by 1792, more than 70,000 people used the Wilderness Trail to make their way to Kentucky. James Craig donated 175 acres of the estate in 1792 to form the town of Christiansburg. Members of the Craig family served as attorneys, congressmen, and tavern owners. Rich in History this 160 year old stately mansion has been home to only five owners, handed down in the Craig Family until the death of Mary Sherwood Haeg in 1973. In 2002 John and Kathy Drummond became the fifth owners of the home, turning the stately Mansion into a Bed and Breakfast. John and Kathy now offer their guests the elegance of a 19th century mansion as well as the convenience and technology of a 21st century home.



Feel the Magic & Make the Memories

Every bride deserves the wedding of her dreams. Whether you envision the traditional elegance of a turn of the century wedding or the splendor of an outdoor wedding the Inn at Hans Meadow offers you classic elegance and romance.

Nestled on three acres this historic mansion is the perfect backdrop for your wedding day. Experience your perfect day at the perfect location and know you, your family and friends will remember your wedding for a lifetime.



Standard Wedding Packages are available from a Small Intimate-Indoor to a Large Outdoor Wedding. We will also design a custom package for your specific wedding. We invite you to contact us for a tour and further information. 540-382-2060 www.theinnathansmeadow.com

My husband and I had our wedding at this inn. It was incredible. To say the least, the grounds are beautiful and the innkeepers were so easy to work with and helped in any way they could. People had an amazing time at our wedding and we can attribute much of that to the hard work of the innkeepers. I felt at home the entire weekend and so did all of our guests. Simply amazing!
—Lauren, Radford, VA

draw the lines

Redistricting Returns in the Commonwealth by MICHAEL B. DEWINE

You've got to draw the line somewhere. And this year it's in Virginia.

Our Constitution requires that the General Assembly reapportion the Commonwealth's 11 congressional and 140 legislative districts every ten years following the U.S. Census.

In February, Virginia will be among the first states to receive detailed population statistics from 2010 Census tabulations for each Census Block because it is one of five states with legislative elections this year. (The other states are Kentucky, Louisiana, Mississippi, and New Jersey.)

Once the normal session adjourns and the data comes down from the feds, the General Assembly reconvenes at special session in April to approve the newly redrawn congressional, Senate, and House of Delegates districts.

Gov. Bob McDonnell can submit any amendments to the redistricting plans, to which the Assembly would have to agree. After that's worked out, then the federal Justice Department will start reviewing submitted plans as required by the Voting Rights Act. If all goes well, primary elections will be held in late summer and all General Assembly seats will be up for general election on November 8, 2011.

But a redistricting process that requires legislative, executive and judicial agreements to proposed plans could become a long political and legal nightmare.

Virginia is one of eighteen states that have split control of the redistricting process. (Among the others are Kentucky, Louisiana, Mississippi and North Carolina.) And our last redistricting plan resulted in four court challenges.

Since then, new U.S. Supreme Court cases have redrawn the rules on redistricting.

In *Bartlett v. Strickland*, the Court established what constitutes a minority district. The court ruled that race must be taken into account in redistricting "only when a geographically compact group of minority voters could form a majority in a single member district."

In *Larios v. Cox*, the Court affirmed a lower court decision that tossed out the state of Georgia's state legislative redistricting plan based on one-person, one-vote.

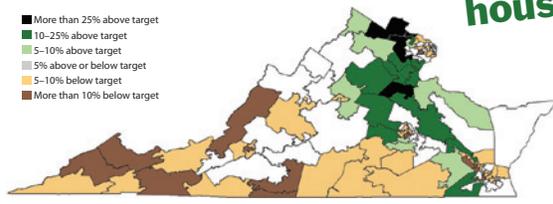
Republican control of the process rests with Gov. McDonnell in the executive branch. The legislative branch is split between Republican Speaker William J. Howell in the House of Delegates and Democratic majority in the Senate led by Richard L. Saslaw.

When the General Assembly convenes in January, redistricting will certainly be on the minds of incumbents of both chambers. It is in their best interests and their political parties to survive this highly political process without the impression of gerrymandering new political district lines. And it may be nearly impossible to do so.

Creative line drawing is nothing new in Virginia politics. As a political consequence, the process of gerrymandering districts has been a tradition in Virginia that even pre-dates Elbridge Gerry himself. In 1798, the Virginia House of Delegates, under the control of Patrick Henry and the Anti-Federalists, unsuccessfully attempted to draw the 5th Congressional District boundaries to keep James Madison from being elected to the U.S. House of Representatives.

Courtesy of VPAP.org

- More than 25% above target
- 10-25% above target
- 5-10% above target
- 5% above or below target
- 5-10% below target
- More than 10% below target



virginia house

And Virginia's redistricting often has greater implications for state planning. J. Kenneth Klinge, a veteran GOP political consultant and lobbyist residing in the Shenandoah Valley, notes that the Virginia Department of Transportation (VDOT) Construction District Map was the 1932 Congressional Map originally drawn by Harry Byrd, Sr.'s political machine. The only major change since that drawing to the maps is the Northern Virginia Construction District that was created out of the Culpeper District in the 1980's.

Klinge argues that every redistricting cycle results in some gerrymandering. In his view, the biggest hurdle to overcome in this round may be the ideological split between the Republicans in power at the state level and the federal Justice Department.

"They are going to have to be very careful how they do this in terms of communicating back and forth so a redistricting act that involves a lot of shenanigans probably has a good chance to end up in court," Klinge said.

"I would be very interested in watching what the Justice Department decides to do about it," Klinge said. "There all kinds of nuances that didn't apply in earlier redistricting that will probably apply and I would imagine the Justice Department involvement will be a lot more than there has been in the past."

At GMU, McDonald predicts that Republicans around the country who are worried about the process could try to circumvent the federal Justice Department by taking the plans to the U.S. District Court of D.C. for pre-clearance.

How Partisan Will the Newly Drawn Districts Be?

There's no guarantee that these two sides are going to achieve compromise, says redistricting expert Michael McDonald, an associate professor of government and politics at George Mason University. "In this situation," he identifies two likely developments: the primary date could get rescheduled to allow for more time and both chambers might try to roll their plans into one bill to simplify the process for agreeing to any changes later.

"In previous decades, where there is a divided state legislature, the bipartisan compromise that emerges is one where each chamber draws its own districts and then they do a bipartisan logroll and pass each other's plans and the governor, in that case, will sign off on that bipartisan compromise," McDonald explained. "That's what typically happens but it does not necessarily have to happen. There can still be alternative pitfalls along the way."

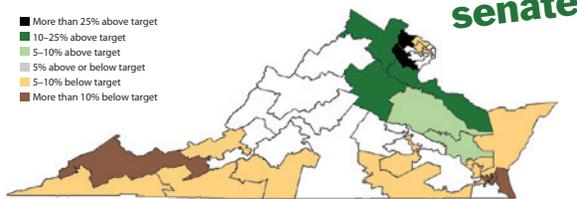
Even within the Senate's Democratic Caucus there are three distinct groups consisting of liberals, mostly from Northern Virginia, rural area Blue Dogs and African American members.

"We may see situations where there are trade-offs even within in the Democratic Caucus," McDonald says. "Just having control of the process doesn't necessarily mean that you're going to have a conflict-free resolution to the redistricting."

See *Draw the Lines*, continued on page 10

Courtesy of VPAP.org

- More than 25% above target
- 10-25% above target
- 5-10% above target
- 5% above or below target
- 5-10% below target
- More than 10% below target



virginia senate

Could a bipartisan or non-partisan commission on redistricting be in Virginia's future?

In 2009, candidates for governor Republican Robert McDonnell and Democrat Creigh Deeds both favored a bipartisan or non-partisan commission on redistricting. But past attempts to create a bi-partisan or non-partisan redistricting panel to draw the lines have died in the House Privileges and Elections Committee.

"It's my goal that it be as non-partisan as possible," says Sen. Creigh Deeds, who has proposed initiatives several times. "In my view, with the legislature drawing the lines there's always going to be an inherent conflict of interest. That's the way it always worked. I've tried to change that for years. I'm not going to stop."

"I am going to continue this quest to get it changed and hopefully, we're going to get it changed by the next redistricting. I am working on the legislation right now - probably a constitutional amendment," Deeds concluded.

Some scholars think this would help, but not eliminate the problem. At CNU, Kidd argues that such a plan, if approved is "not the silver bullet. It's not going to solve all of the Commonwealth's problems. But what it would do is it would remove the self-interested partisan element from the redistricting process so you will end up having district lines that were more contiguous with local communities and would probably encompass whole communities rather than splitting communities and it would probably make more sense in terms of populations that look similar."

"A Commission would also make districts more competitively electorally so you will probably have more competitive elections where the outcome was not such a foregone conclusion or consistently over time," Kidd said. "We have competitive elections in Virginia but they come and go. By bipartisan or non-partisan redistricting you have more consistent competitive elections over time and I think that would be more healthier than what we now have."

The Commonwealth, in each district, stands to benefit from more competitive elections in every district. In 2007, the last election for the State Senate, 17 incumbent senators were unopposed. In 2009, 31 members of the House of Delegates were unopposed.

Perhaps the legislature should heed the input they received from one constituent during the public hearings: "Use the Crayon Test—if it looks like something that a child drew with a crayon, then it's wrong."

Maybe that's the simple way to go with the redistricting process this year!



Draw the Lines from page 9

"The purpose of these meetings is to hear from the public what their concerns are with the redistricting process and what their thoughts and ideas are," Cole said. "There is no redistricting plan yet. We won't really develop a plan until we get the final census numbers. I think this is the first time in Virginia history where we have a General Assembly that each house is controlled by a different party during redistricting so regardless of how we are going to do it, we got to have bipartisan redistricting."

Del. Rosalyn R. Dance, a Democrat, mentioned that the public "wanted to see the four C's—congruence, compactness, contiguousness and competitiveness in the redistricting process."

The testimony heard most often at the public meetings came from citizens favoring a bipartisan redistricting and reapportionment commission and keeping their areas traditional communities of interest. But that doesn't mean this will necessarily be a priority, according to some experts.

"It is not a requirement in Virginia to respect communities of interest. It's not in our constitution and it's not in statute," observes McDonald at GMU. "There are people out there in the public who do want to have their communities kept intact. I wouldn't be surprised if the Republicans would also be sympathetic to that argument because generally keeping communities together or keeping respecting political boundaries generally benefits the Republicans. It leads to an over concentration of Democrats in urban areas."

McDonald wouldn't be surprised if that happened. From his perspective, it really has to do with Northern Virginia.

"If you can segregate all the Democrats in Northern Virginia and not draw district lines radiating outwards into some of the ex-urban counties then that's going to be efficient Republican gerrymandering," McDonald argues. "There are some places downstate where there're going to be areas where it would be beneficial for the Democrats to keep a city intact rather than split it into two or three districts. It's very complicated and hard to define. It's good to go through the state and receive that public testimony as to what constitutes community of interest but because we don't have a completely open and transparent process in Virginia it's still possible that either the legislature will manipulate their interest by their own end and just completely disregard what the public wants."

Public Input Into The Process

Though much public testimony has been given in support of a non-partisan redistricting commission, that reality remains tenuous at best. And members of the public can find it difficult to make sure their voices are heard and that their thoughts are considered on the process.

Last year, in order to obtain broad input from the general population, both the State Senate and the House of Delegates held a series of public hearings throughout the Commonwealth. The two chambers convened separate hearings on the issue until the last public input meeting last December.

For the Senate's Committee on Privileges and Elections, Sen. Janet Howell conducted the hearings to solicit early input from citizens concerning their views on redistricting.

The House Committee on Privileges and Elections held hearings on redistricting led by Del. Mark L. Cole, chairman of the committee and the redistricting subcommittee.

Virginia College Students to Compete in Redistricting Contest

This year, Virginia's public college students will be able to participate in a Redistricting Contest using advanced computer technology that wasn't available a decade ago.

The Watson Center for Public Policy at Christopher Newport University and the Public Mapping Project are sponsoring the Virginia College and University Legislative Redistricting Competition to help educate students and the public about the process of redistricting.

Each team will be able to draw legislative lines for the Virginia House of Delegates, Virginia Senate, and federal congressional lines for the House of Representatives. Using the Public Mapping Project software, teams will produce a redistricting plan with maps based upon the following criteria: compact; contiguous; equal in population; in compliance with the federal Voting Rights Act; encompassing communities of interest; and respectful of existing political subdivisions. Teams will not be allowed to use voting history data or incumbent addresses to develop maps or draw a plan to favor one party or the other.

A panel of experts will determine the top set of maps for each chamber (House of Delegates, Virginia Senate, U.S. House of Representatives) based upon the criteria listed above. The top map for each chamber will be awarded \$1,000. Second place maps for each chamber will be awarded \$500. All non-winning teams that submit final maps will receive honorary awards of \$200 per team. Faculty sponsors will receive an honorarium of \$500 per team. All prizes and honorarium are contingent upon the submission of final maps.

Participating schools are Christopher Newport University, George Mason University, James Madison University, Longwood University, University of Mary Washington, Norfolk State University, Old Dominion University, University of Richmond, Roanoke University, The University of Virginia, The College of William and Mary and Virginia Commonwealth University.

For general information about the competition and teams, contact Professor Quentin Kidd at Christopher Newport University (qkidd@cnu.edu). For information about the software, redistricting, and the Public Mapping Project, contact Professor Michael McDonald at George Mason University (mmcdon@gmu.edu).

January 15, 2011	Software becomes available to teams for training and practice.
February 10, 2011 (approximate date)	Federal census data becomes available to teams and competition begins.
March 10, 2011 (approximate date)	Deadline for teams to submit final maps.
Late March, 2011 (TBD)	Teams present their maps at event in Richmond and winners are announced.



Despite its short history, the JPM-TMT program has emerged as the U.S. government model for advanced development and procurement of rapidly adaptable, broad-spectrum MCMs against emerging infectious diseases and genetically altered or unknown biological threats.

Embracing INNOVATION

By Arlene Goyette, Communications Director,
Joint Project Manager-Transformational Medical Technologies

Modern advances in genetic manipulation, biotechnology and advanced biochemistry have paved the way for advanced weaponization of biological agents (biothreats) capable of mass casualties. Today, our nation's adversaries have the potential to develop and produce these biothreats quicker than it takes for us to develop, license and produce a response. Additionally, many disease-causing pathogens have now become drug-resistant and the once-conquered diseases of the past are reemerging and threatening the lives of our Warfighters and civilians.

During the 2006 Quadrennial Defense Review (QDR), the urgent need to enhance our nation's response capability against biothreats was identified. The Department of Defense's (DOD) traditional approach for developing medical countermeasures (MCMs) against emerging and genetically engineered biothreats (by targeting specific disease-causing pathogens and their effects or "one drug, one bug" strategy) was determined insufficient and ineffective. A new approach was needed to effectively resolve the new biothreat challenge. As a result, the QDR directed the DOD to establish the Transformational Medical Technologies Initiative or TMTI.

and Pushing the Envelope on BIODEFENSE



JPM David E. Hough is presented with the Joint Project Manager Charter by BG Jess Scarbrough (August 2010)

JPM-TMT Successes

JPM-TMT's strategic collaborations with performers from innovative biotech firms, pharmaceutical corporations, other government agencies and academic institutions—most of which have not previously worked with the DOD—is a major component of its success. These partnerships have enabled the program to push the envelope on biothreats, yielding a robust portfolio of biothreat products that rivals those of the civilian/pharmaceutical industry.

JPM-TMT's successes demonstrate a preliminary ability to respond to emerging and genetically engineered biothreats. The program's notable accomplishments to date include:

- **Recognized as the first U.S. government agency** to file IND applications with the Food and Drug Administration (FDA) for therapeutic candidates for the treatment of Ebola and Marburg HFV—a first-of-a-kind capability, as there is no current treatment for either virus.
- **The FDA has accepted JPM-TMT's IND filings** for the Ebola virus therapeutic and Phase 1 of Clinical Trials is now underway.
- **The IND filing for JPM-TMT's Marburg virus therapeutic** has also received final approval from the FDA to initiate Phase 1 of Clinical Trials.
- **Submitted an IND application** for Emerging Infectious Diseases (EID) MCM against the H1N1 influenza virus to the FDA.
- **Successfully exercised capability** to rapidly identify, test, and manufacture MCM against the pandemic flu (A/H1N1 S-OIV) in an animal population.
- **Acquired access to a comprehensive database** for evaluation of genetic sequences against potential drug targets from over 90 percent of pathogenic virus families that are capable of infecting humans.
- **Demonstrated a genetic sequencing prototype** capable of identifying genetically modified pathogens and new drug targets, which transformed a process that typically takes days into only a few hours.

▪ **Established a diverse biothreat products portfolio** encompassing an end-to-end response capability, from rapid biothreat identification and characterization through generation of therapeutics.

- **JPM-TMT is the only U.S. government agency** to simultaneously fund and manage multiple performers with the most promising drug candidates and best technologies, from basic research through advanced development.
- **JPM-TMT's products pipeline** includes up to 20 potential INDs and novel platform technologies through partnerships with more than 50 performers and 100 subcontractors drawn from pharmaceutical companies, biotech industry, academia, and government laboratories.
- **The program's rigorous milestone-driven program management** approach, poised to redirect funding to accelerate promising candidates in the pipeline and terminate unsuccessful candidates early, is a U.S. government model for advanced development and procurement of rapidly adaptable, broad-spectrum MCMs against biothreats.

TMTI revolutionized the DOD's biothreat response. Its shift from the "one drug, one bug" paradigm to a broad-spectrum or "one drug, many bugs" approach of developing MCMs against multiple threats, set the stage for a comprehensive response to biothreats. TMTI's mission, to protect the Warfighter from emerging and genetically engineered biological threats by providing a novel response capability, from identification of pathogens to the development of medical countermeasures, is supported by the following key performance enablers providing proof-of-process:

- (1) Adaptable platform technologies for rapidly identifying unknown threats and generating countermeasures to newly identified threats, with the goal of having an infrastructure in place to react quickly to the use of unknown agents that may have been genetically engineered;
- (2) Broad-spectrum MCM products applicable to treating viruses, especially hemorrhagic fever viruses (HFV), and intracellular pathogens, with the goal of having at least two investigational new drug (IND) applications filed with the FDA; and
- (3) Genetic sequencing capability for screening, characterizing and identifying potential biothreats, with the goal of having all the sequences of pertinent threat agents against which countermeasures are developed.

Within five years, TMTI exceeded in meeting its goals of providing an initial, integrated capability to rapidly respond to emerging and genetically engineered biothreats (see callout box, "JPM-TMT Successes"). Its successes led to a decision by the Joint Program Executive Office for Chemical and Biological Defense (JPEO-CBD) to charter TMT as one of its Joint Project Managers. In 2010, TMTI became the Joint Project Manager-Transformational Medical Technologies (JPM-TMT) advanced development program office.

Continued on page 18.



Photo by AVI Biopharma, Corvallis, OR

MAGAZINE ARTICLE

Continued from page 17.

By embracing innovation and producing results, the program remains an integral part of the DOD's comprehensive National Biothreat Strategy and the Integrated National Biothreat Medical Countermeasures Portfolio, which is coordinated with the Executive Office of the President, Interagency and the DOD. JPM-TMT's real-world capabilities are critical to protecting our nation's Warfighters and civilians and an invaluable resource should another major pandemic event such as SARS or H1N1 swine flu occur again.

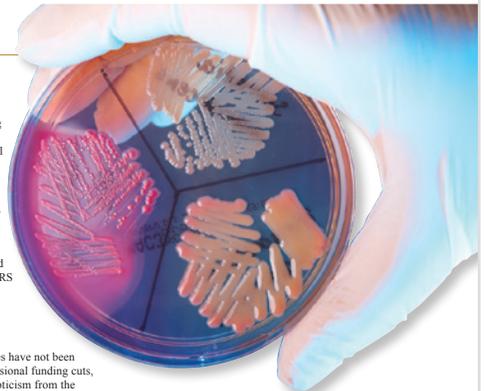
There is Much Work Ahead

It's no secret that JPM-TMT's successes have not been without struggles. After years of Congressional funding cuts, management turnovers, and growing skepticism from the media and the public, it's easy to see why one would expect the program to just hang up its coat and play it safe.

But despite JPM-TMT's many challenges, its steadfast leaders, JPM David E. Hough and his Deputy John Gorrell, aren't about to hang up their coats and call it a day. Along with their dedicated team comprised of experienced program managers, acquisition professionals, contracting experts, and accomplished military and industry veterans, Hough and Gorrell forge on. There is much work ahead of them and they are in it for the long haul.

Hough and Gorrell's commitment to JPM-TMT's success is evident in the way they have embraced innovation—by fearlessly taking on risks and enduring the inevitable changes, failures and skepticisms that come with it. With this mindset, they have created a program office environment that not only fosters innovation but also encourages their team to reflect on JPM-TMT's failures, not just successes, in order to lay the foundation for a better path forward.

Undeterred by current industry standards (one drug can cost up to \$1.3 billion and can take 10 to 15 years to make¹), JPM-TMT is determined to push the envelope on biothreats. Fueled by innovation, the program uses a unique management approach modeled after commercial pharmaceutical organizations, which is novel within the DOD. In addition to examining lessons learned, JPM-TMT maintains a start-to-finish view of the drug development process (from research to advance development activities) to minimize the challenges related to product transitions. JPM-TMT also continues to implement commercial and government best practices and form tactical partnerships with other government agencies, academia and industry in order to explore ways to reduce the time and cost of developing and manufacturing an MCM.



Paving the Way

The lessons of the 2001 anthrax attacks and the 2009 H1N1 pandemic have taught us that our nation is vulnerable and there is clearly a need for a rapid response against such events. And while no one knows when the next deadly pathogen will show up or when another biowarfare attack will happen, being prepared is better than the alternative.

For JPM-TMT, inaction is not an option when it comes to protecting our Warfighters and the nation from biothreats. The program has already demonstrated its long-term commitment and innovative approaches to biothreats, and it's not about to give up or slow down its momentum.

Over the next few years, JPM-TMT will continue to build its pipeline by integrating the early scientific discovery of rapidly adaptable and broad-spectrum MCMs with the advanced development and acquisition capabilities of the JPEO-CBD. Specifically, JPM-TMT's ongoing collaboration with the Translational Medical and Diagnostics and the Defense Surveillance Science and Technology Divisions of the Defense Threat Reduction Agency, Joint Science and Technology Office-Chemical Biological Defense (DTRA JSTO-CBD) Directorate will ensure that MCM products and technologies being developed for the Warfighter are successfully transitioned for advance development and acquisition by the JPEO-CBD. Lastly, JPM-TMT will continue towards FDA approval of its HFV and EID MCM products and will pursue development of additional MCMs mitigating biothreats with further applications for the FDA.

¹J.A. DiMasi, "New Drug Development in the United States from 1963 to 1999," *Clinical Pharmacology and Therapeutics* 69, no. 5 (2001): 286-296; J.A. DiMasi and H.G. Grabowski, "The Cost of Biopharmaceutical R&D: Is Biotech Different?" *Managerial and Decision Economics* 28 (2007): 469-479.

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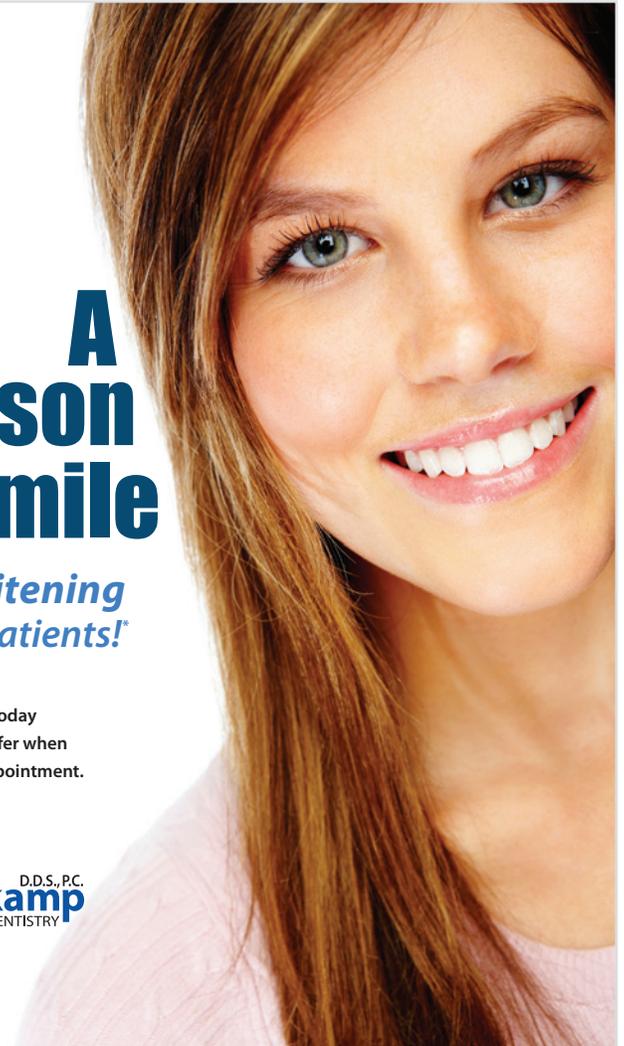
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Celebrating the **115th Anniversary** of the **G.E.R.M.A.N. Club**
by Quinton Callahan

leadership
service
fellowship

With its inception in 1892, the German Club of Virginia Tech became the premier social organization of the VPI campus. And throughout the past 115 years, many things have changed about the club.

The club is now much larger than one ever thought possible. It holds regular service events within the Virginia Tech community and throughout Southwest Virginia. One thing has remained constant within the club over these 115 years, however, and that is the status and reputation of the German Club as the premier social organization of VPI. With this reputation, the club is proud to invite all members past and present to celebrate our 115th anniversary in the spring of 2007.

The 115th Anniversary of the German Club will be held April 13-15, 2007. Following an itinerary similar to that of the 10th anniversary, the event will be held in Blacksburg over the course of Friday, Saturday, and Sunday. Accommodations will be furnished

by the Inn at Virginia Tech, in addition to the Holiday Inn and various other local venues. The Inn will also be used for scheduled events throughout the weekend. The German Club Manor will be the focal point for all activities throughout the weekend, including the 115th anniversary ball Saturday evening.



Jim Baker '54 and wife Pat Danze at the 110th reunion. **115th** continued on page 2

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115th Anniversary

Each year will have some of the same period, central food, and a cash bar. In addition, every area will incorporate historical facts and photos of the time period to enhance the German Club and Virginia Tech. The idea behind the historical event is to encourage members and alumni to meet from area to area and learn more about different members' experiences while at Virginia Tech, specifically while in the German Club. By representing who we were, we're recognizing alumni will be able to understand how their own and experience respect of the German Club and club members.

Upon arrival on Friday afternoon, guests will be greeted with a poster containing area and campus maps and information needed for the weekend's activities. Many events will include the meaning of the weekend and give German areas of guest and present opportunities to speak with each other.

On Friday afternoon, golf will be available. We will be playing at the River Course in VTE. On Friday evening there will be a cocktail hour at the Inn at Virginia Tech. Saturday morning will provide a brunch, followed by a meeting of the German Club Board. Sunday evening features the Anniversary Ball. No activities are scheduled for Sunday, but all members are encouraged to explore the campus and spend a few more hours with those good friends of old.

All alumni and guests are encouraged to attend and enjoy the company of all German Club men. As the Board notes, "So in that social function are obtained by culture and dignity. Make certain that our great fellowship continues firm and constant." By upholding years of tradition and hospitality, the German Club of Virginia Tech looks forward to celebrating its 115th anniversary.



115th Anniversary

Bringing It Back to GERMANY



Shortly after joining the German Club in the Spring of 2005 I learned that my family would be traveling to Heidelberg, Germany, that summer as a job opportunity. When I found out I was about to visit Germany, I would probably regret that it was required of German Club men to visit our "German" home. As a Christian organization dedicated to helping young people build relationships with Christ, for me, this I could not pass up.

Heidelberg is a great old university city in southwest Germany, about an hour south of Frankfurt. I have been able to spend two summers and winter break in Europe. Although I prefer Vietnam, VA, to Heidelberg, living overseas has offered me many extraordinary opportunities.

One of my fondest memories of living abroad in Heidelberg, Germany, was my German over the 2005-06 winter break. Dave Coates, Brandon Smith, and Chris Moore really demonstrated the strength of those "unbreakable bonds of brotherly love" when they came to Germany and stayed with my family and me for three weeks last year. The four of us spent New Year's Eve at the medieval Heidelberg Castle, enjoyed the famous German Christmas markets, and traveled to other parts of the country.

I had the privilege of speaking this past summer in Heidelberg as well as meeting in Germany, Munich, Baden, Prague, and Vienna. The German hosted the 2006 FERA World Cup from July 9 to July 15, 2006, and during that time we had a chance to experience and witness the World Cup. Although the World Cup may have proved not to be the first place Germany, the whole country was a mobilization party for the month of June. Soccer is the greatest sport in many countries around the world and being in Germany during the soccer world championship was great.

During my time in Europe I was able to visit a camp established for Club members, which is the United States Army organization to Young Life. A Christian organization dedicated to helping young people build relationships with Christ. For me, this I could not pass up.

Comparing my summer experiences to those of fellow German Club members who spend time abroad. I have not only gained an appreciation for foreign cultures and people, many of our members studied at European universities. Tom Ogilvie, a member in Heidelberg, Germany, is currently studying Europe as part of a month-long program. I had the opportunity to see the club's connection to continental Europe and to see the German people and culture. And I'm looking forward to one of our well-deserved trips to Heidelberg, Germany, next summer to bring back to Heidelberg.

PARIS

Reunion at the 110th

NEWSLETTERS Click on any image to view entire newsletter.



The U.S. Army Corps of Engineers (USACE) has made significant progress in environmental investigation and restoration of the Former Nansmond Ordnance Depot (FNOD) in Suffolk, Virginia, during the past year (2006 and through mid-2009). After years of investigation and multiple clean-up actions, removal of munitions and explosives of concern (MEC) at FNOD is nearing completion.

Environmental Projects (continued from page 1)
Main Burning Ground (Source Area 5)
Open completion of munitions removal activities at the MEC USACE began addressing residual contamination at the site. The first step was to ascertain all useful data from previous sampling events and use the data to identify all remaining data gaps at the site. The Work Plan was finalized in early 2006 and field activities were completed in August 2006. The old and new data were evaluated in a Data Based Remedial Investigation Report, which was submitted to the regulatory agencies on 15 October 2006.

Nansmond River Beachfront (Area of Concern 1)
USACE has initiated an Area of Concern (AOC) remedial investigation at the site. The results from limited sampling completed in 2006 are being used to develop the Work Plan for a full-scale AOC. The Work Plan is expected to be completed in late 2007. All sampling to be conducted in early 2010. Results will be available in late 2010.

TCC Lake and J Lake
Data to be prepared for TCC Lake and J Lake in 2006. Since then, USACE performed some limited additional characterization for select constituents, such as polycyclic aromatic hydrocarbons (PAH), arsenic, and pesticides that showed some elevated concentrations above established background values. The results of additional sampling were included in updated SI reports, submitted to regulators for review in 2008. The results indicate low levels of a potentially ecological risk in both sites due to low observed detectors of certain constituents. This risk is relatively low in the USACE risk management strategy and the USACE is working closely with the FNOD Project Delivery Team to determine if additional actions are necessary at the sites.

Track H and Magazine Line (AOC 11) Update
In 2006, three 55-gallon drums were found on the north side of building D-36. Two of the drums were removed and empty and one drum was half full of an unknown liquid. Although it appeared to have contained a petroleum product, in addition, four 55-gallon drums and one metal storage tank were found in a wooded area in the center of the site. All of these drums were removed and empty and the tank also appeared to be empty. USACE removed all drums in 2006. In order to gain access to sample surrounding soil, one sample location contained elevated levels of PCBs in soil, which was determined to be directly below the half-full drum at building D-36. Periodic detections in soil appear to be consistent with the use of FNOD. The drums and tank were taken to an appropriate disposal facility. Further evaluation is ongoing.

RAB Meetings
USACE is providing the newsletter to keep FNOD RAB members and the public up-to-date on USACE's progress at FNOD. RAB meetings will be held on the first Thursday of the month of December 2006, March 2007, June 2007, and September 2007 at 6:15 p.m., at the Merritt Courtyard Hotel, 2002 Harbour View Boulevard, in the first floor meeting room. The meeting and application for RAB membership are open to the public. The meetings provide an opportunity for making comments and asking questions about the environmental investigation activities of FNOD. USACE greatly appreciates the public's interest in this environmental restoration project and invites the public to learn more by visiting the FNOD web page at www.usace.army.mil/fnod or by contacting our Public Affairs representative, Gerald Rogers, at 757-201-7241.

Other Projects
In September 2006, USACE initiated site-wide soil and groundwater investigations to establish background concentrations of constituents of concern.
USACE submitted a revised draft RI report for the Horseshoe Pond Source Area 41 to regulators for review in August 2006.
USACE plans to submit a revised draft RI report for the James River Beachfront (BRB) Source Area 4 to regulators by the end of October 2006.
USACE plans to complete a study of the erosion impacts and potential shoreline stabilization alternatives at BRB in late 2009. The study aims to determine the need for additional shoreline stabilization at the BRB, articulated by the need of the existing settlement where significant erosion is ongoing.

Community Involvement Update
The U.S. Environmental Protection Agency (EPA) remains fully engaged in community involvement activities for the FNOD site. In addition to the risk assessment, EPA has an Outreach Program to provide advice and information on best practices to support of community relations. Bill Hudson, EPA's FNOD community involvement coordinator provided an overview of community involvement at the December 2006 RAB meeting. Additionally, Hudson provided RAB members a preliminary update on the results of recent FNOD community involvement. During the September 2006 RAB meeting, Hudson teamed with Gerald Rogers, USACE Norfolk District Public Affairs Officer, to discuss support activities to conduct the restoration in August 2009. During Hudson's respective presentation to the RAB, an enhanced community involvement, as well as the requirements of Superfund Law, as important components that benefit both the community and the facility during any proposed community involvement, as well as the requirements of Superfund Law, as important components that benefit both the community and the facility during any proposed community involvement activities, such as the monthly RAB Update, and encouraged the RAB to continue to offer efforts to provide information to FNOD as well as the public. The updated information gathered from the most recent round of community involvement will be added to the FNOD Public Information Plan (PIP). Tentative publication date for the updated PIP is 15 December 2006.

- FNOD RAB Member List**
- Andrew James, USACE Gov't Chair, 757-201-7107
 - Greg Boyd, City of Suffolk, 757-514-6042
 - David Guglielmo, Supervisor, 757-822-1177
 - Stephen Milano, VOFD, 800-424-2129
 - Dave Saunders, Business Week, 757-484-4514
 - Bob Thomson, USRA, 800-273-2094
 - Ben Rogers, Dominion Resources Service, Inc., 800-273-2094
 - Valerie DiCarlo, Army Corps of Engineers, 757-484-6031
 - Andrew Johnson, Army Corps of Engineers, 215-914-1003
 - Bruce Johnson, Norfolk Beach, 757-895-9129
 - Ralph Blanton, RAB Facilitator, 757-895-7500
 - Bob Shriver, Landfill Manager, 757-925-0206
 - Cheryl Wilkins, Generator, 757-436-1033
 - David Blanton, VOFD, 757-483-1000
 - 757-896-1000

Restoration News
U.S. Army Corps of Engineers
College Park, Virginia
757-822-2724

Munitions Project
Munitions investigation and removal activities were first initiated at the Main Burning Ground (MBG) in 2000 and were completed in early 2008. A streamlined and less-intrusive munitions removal approach was implemented at the Nansmond River Beachfront (NRB). The new approach began in 2008 and was completed in only 247 working days. TCC Lake, J Lake, the North Athletic Field and Renovation Plant Area were also investigated for the presence of MEC. Results from all of these recently completed MEC investigations are provided in the table on the right.

NRB Shoreline Stabilization
The majority of munitions removal at the NRB was located near the shoreline in an area that is very sensitive to erosion, therefore, USACE has made shoreline stabilization at the NRB a top priority. The existing shoreline was reinforced and erosion/sediment controls were

MEC Investigation Results

Area	Bulk TNT (pounds)	Munitions (pounds)	Scrap (pounds)	Munitions Potentially a Hazard (# Items)
Main Burning Ground	0	5,043	6,730	2,364
Nansmond River Beachfront	1,210	1,440	13,414	531
TCC Lake	0	0	18	0
J Lake	0	0	7	0
North Athletic Field & Renovation Plant Area	0	3	541	0
Total	1,210	6,486	20,223	2,895

USACE hosted a technical project planning (TPP) meeting, in conjunction with the June 2009 Restoration Advisory Board (RAB) Meeting. The TPP process allows stakeholder input on the investigation at the very beginning of the process. These AOCs were considered to be a lower priority, because no munitions have been discovered in the areas.

Environmental Projects
TNT Area (Source Area 1)
USACE briefed the results of the Initial TNT Area Remedial Investigation (RI) to the RAB in December 2007. During the RI, USACE identified several chemicals of potential concern from historical sampling results, including the presence of TNT and DNT in the site's groundwater. USACE is in the process of initiating a Feasibility Study (FS) at this site and is planned to be completed by September 2010. In conjunction with the FS, USACE and its team (VEISAR and Virginia Tech) are completing a laboratory-scale biodegradation study for TNT and related compounds. The study is scheduled for completion in mid 2010.

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