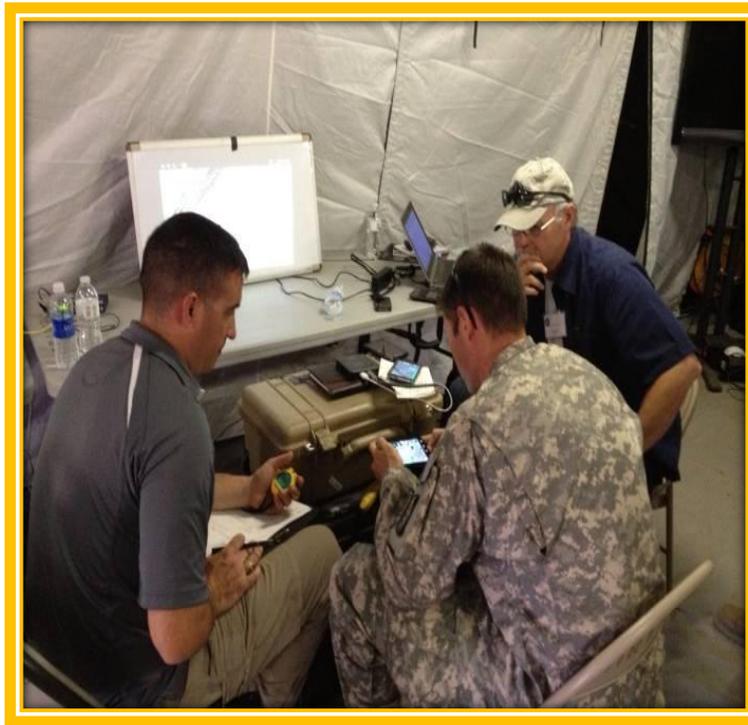


Dean's Weekly Significant Activities Report

26 September 2012

The Dean's Weekly Significant Activities Report is an internal report on all activities conducted within the Departments, Centers & Staff. The Report is provided to the Dean for situation awareness, throughout the organization for shared situation awareness, and to select external organizations for outreach and communication. Portions of the Dean's Weekly Significant Activities Report are further staffed in a report to the Superintendent. POC for the report is MS Lesley Beckstrom at 938-5105.

Picture of the Week



As part of the ASA(ALT) Deployable Force Protection Adaptive Red Team, a D/SE faculty team traveled to Camp Roberts, California to conduct live system testing of potential Deployable Force Protection technologies at the Technical Support & Operational Analysis (TSOA) Activity 12-4. MAJ James Enos is on the left.

Center for Enhanced Performance (CEP)

LTC Peter Jensen was a guest instructor for a class in KN 455: Psychology of Exercise on the topic of arousal regulation. LTC Jensen led the class through a discussion on controlling one's mental and physical activation as a key aspect to successful performance within stressful environments. The class discussed various arousal regulation techniques and how these could be applied within a military context and integrated into military training activities. POC for this event is LTC Jensen (x1168).

Department of History

On 11 September, **MAJ Russell Vanderlugt** gave a presentation titled **"Islamic Civilization and Law: The Historical Context"** at the Brigade Judge Advocate Mission Primer Conference at the Pentagon.

Professor Cliff Rogers published as co-editor the tenth volume of the **Journal of Medieval Military History**.



COL Ty Seidule delivered a paper at the **Avery Center for African American History and Culture** in Charleston, South Carolina for a conference entitled, "The Fire Every Time: Reframing Black Power across the Twentieth Century and Beyond." The name of the paper was "Black Power Cadets! Reaction to President Nixon's Confederate Monument at West Point, 1971."



Department of English and Philosophy

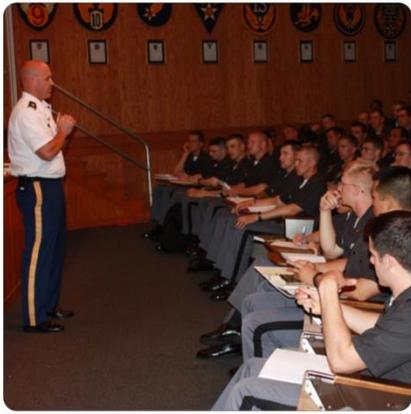
Past Event

On 21 September, Professor Rachel Sondheimer from the Department of Social Sciences served as a guest lecturer for LTC Mayer's EP363 (Political Philosophy) class. Professor Sondheimer, whose research interests include political participation, discussed the history and importance of political parties and party platforms. Cadets enrolled in EP363 will soon complete an assignment requiring them to identify the philosophical ideas contained in the Democratic and Republican Party platforms; Professor

Sondheimer's presentation provided them with the background knowledge they need to complete this assignment.

West Point's Center for the Advancement of Leader Development & Organizational Learning (CALDOL)

MX400 Mission Command Guest Speakers, Round 1. On 18 September, cadets in "MX400: Officership" attended their first round of guest speakers, part of a series which brings to life the concepts they are learning in class through stories about officers' most challenging moments. The stories and interaction with the guest speakers help the cadets identify with the profession they will soon become members of.



CALDOL, in partnership with the Simon Center for Professional Military Ethic (SCPME), recruits officers from West Point and around the Army to support this effort. This first round of guest speakers included: MAJ Brittany Simmons (Sosh), MAJ(P) Dan Gade (Sosh), MAJ Eric Gust (DMI), MAJ Josh Gaspard (SE), and MAJ Ryan Worthan (SE).

The speakers shared a series of inspirational stories that left cadets energized about the profession and leading Soldiers.

To the five guest speakers (and volunteer facilitators): **Well done! And, thank you!**

Leadership Counts! POC: jonathan.silk@usma.edu

Department of Systems Engineering

The following is the 2012 Systems Engineering AIAD AAR...

2012 Systems AIAD AAR



By the numbers...

90 AIADs
 43 Different Organizations
 36 Corporate, 42 DOD, 6 Govt, 6 Academia
 10 International (Thailand, Germany, Italy)

Cadet Feedback

- 89% would recommend their AIAD to a friend
- 86% are satisfied or very satisfied with the Systems AIAD program
- 83% were satisfied or very satisfied with the support provided by the AIAD coordinator

- Most common concern was understanding administrative and logistics issues associated with government travel
- See more at: <http://www.dean.usma.edu/se/selectsurvey.asp/SurveyList.asp>

2012 Cadet AIAD Feedback

Positive Comments



This AIAD provided quite an impact on my education. I was able to learn so much in such a short amount of time, and see first hand the impact that a systems engineer can have on almost any situation as my limited skill set was still able to be applied to many different tasks that needed to be worked on at NASA.

I learned a lot about how support for the Army works. The REF is interconnected with a lot of the other supporting parts of the military, so watching how they went about solving logistical/strategic problems was extremely educational. They also had a large amount of military or former military who shared their experiences and ideologies with me, which was a great education on where I may want to go and what I may want to do after graduating West Point.

This AIAD has really shown me real world applications from the classes I have taken. Particularly my Operations Management class was applicable as quality control, standardizing manufacturing processes and forecasting are a huge element of industrial sized bakeries.

This AIAD reaffirmed my decision to major in Systems Engineering. My critical thinking improved, I learned some great interview techniques, I applied the SDP to new situations, and I reinforced military staff operations such as presentations, writing CONOPs, organizing ideas, and holistic tactical thinking.

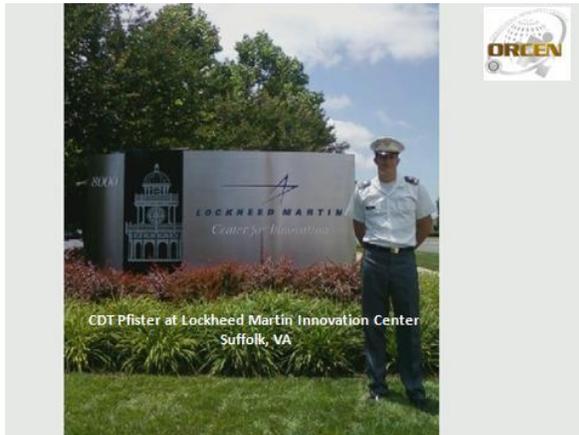
Positive Comments



This AIAD experience impacted my education by allowing me to apply spec and tools that I have learned in the classroom to the real world. Although the scope of the project required a lot of SE301 Systems Engineering skills, I was also able to use a few methods I learned in EM420 Production Operations Management.

It allowed me to truly appreciate the importance of Systems Engineering. A company or organization attempting to develop a system or product without the practice of systems engineering is only hurting themselves in the long run and most likely not being efficient in the development process. I also was able to used some very great resources such as the computer program DOORS 9. Additionally, I was able to speak with, and observe some brilliant systems engineers that will greatly impact my future education and professions.

I saw the real world view of everything I had ever been taught in the systems department. Almost all of the classes I had taken were being used on a regular basis at this company on some level. It gave me a deep appreciation for what I was learning at West Point and the products such an education can produce.





CDT Lee and Compeau at General Dynamics Land Systems Sterling Heights, MI



CDTs Dunn and Cunanan at TRAC Monterey Monterey, CA



CDT Campbell at Department of Transportation Washington, DC



CDTs Allen and Cahalan at Northrup Grumman Huntsville, AL



CDT Davis at U.S. Army Corps of Engineers Chicago, IL

As part of the ASA(ALT) Deployable Force Protection Adaptive Red Team, a D/SE faculty team traveled to Camp Roberts, California to conduct live system testing of potential Deployable Force Protection technologies at the Technical Support & Operational Analysis (TSOA) Activity 12-4. Eighteen (18) technologies were assessed using a Warfighter Technology Tradespace Methodology (WTTM) developed by Prof. Driscoll, Dr. Tim Elkins, Dr. Mike Jaye (NPS), and MAJ James Enos over 4 days of day/night live red teaming operations involving Warfighters from 19th SOG(A) and California National Guard. The WTTM assesses the degree of alignment between system design choices / performance characteristics and Warfighter expectations in a manner that exposes an estimate of the risk for technology non-acceptance by the Warfighter.



From 4-7 Sep, Dr Pat Driscoll presented the core structure of the Warfighter Technology Tradespace Methodology (WTTM) to the Logistics & Supply Chain section of the Operational Research Society (ORS) at the OR 54 Annual Meeting of the ORS in Edinburgh, Scotland.

On 4 Sep, LTC Kenny McDonald, MAJ Isaac Faber, and Dr John Farr from the Center for Nation Reconstruction and Capacity Development (C/NRCD) briefed LTG Michael Ferriter, IMCOM and ACSIM commander, on the faculty/cadet projects for last academic year sponsored by the ACSIM and the proposed research agenda for academic year 12 -13. Last academic year, cadets and faculty from the Department of Systems Engineering conducted research on energy security and wrote an economic development plan for the island of Ebeye in the Marshall Islands. They also developed an infrastructure prioritization tool for the Regan Test Site on the island of Kwajalein Atoll in the Marshall Islands. For AY 12-13, faculty and cadets will be conducting research on electrical energy pricing and conducting a review of Army family programs.

On 10 Sep, Dr. Pat Driscoll met with Dr. Jim Dalton, O/Dean, to engage in a project to adjust the core GAMS code of the Cadet Scheduling algorithm used to provide class schedules for all four cadet classes. The original theory and computational algorithm were developed by Prof. Driscoll and Prof. Hanif Sherali (VA Tech), and implemented as a column generation approach by a GAMS coding team.

On 11 Sep, LTC Kenny McDonald and Cadets Scott Geary, Brenna Heisterman, Tim Ko and Chris Marchetti traveled to Ft Belvoir, VA to meet with representatives of the Consequence Management Assistance Program (CMAP), Strategic Engagement Branch, Defense Threat Reduction Agency. This capstone team is assisting CMAP in developing and validating metric development using a decision support software system. The system will automate and quantify the effects of investments on recovering from nuclear, biological, and chemical attacks. To create this decision support system the cadet team will need to develop metrics, architecture of the process, and a software tool to quantify the value of the investment into an integrated system. Cadets had the initial stakeholder meeting with several members of CMAP to include COL Clark Heidelbaugh and LTC Rob Prins.

On 18-19 Sep, LTC Steve Henderson and COL Rob Kewley traveled to Combined Arms Support Command (CASCOM) at Fort Lee, VA to support the 71st Ordnance Group (EOD) Reverse Collection and Analysis Team after their rotation to Afghanistan as the unit headquarters for CJTF Paladin. The mission of CJTF Paladin was to provide command and control and coordination for all counter-IED efforts across ISAF Joint Command. Both LTC Henderson and COL Kewley served as the Operations Research/Systems Analysis (ORSA) Team Chief on CJTF Paladin staff during their rotation to Afghanistan. In addition to providing ORSA support to the RCAAT, they are also documenting, via system architecture, the CJTF Paladin forensic and exploitation systems that have been developed in support of intelligence analysis, targeting, training, and EOD command and control across the theater. This produce will be critical in the migration of the emerging systems to enduring programs of record.

On 21 Sep, MAJ Jeff Demarest and COL Rob Kewley traveled to Aberdeen Proving Ground with two cadet capstone teams. One team met with Project Manager Mission Command and Project Director Tactical Network Initialization to discuss Army and Marine Corps Command and Control Integration. This team will be working with two midshipmen from the Naval Academy to identify engineering processes and techniques that would better support integration – especially in the area of synchronized network initialization data. The team was pleased to meet jointly with COL Jonas Vogelhut, the Army's PM for Mission Command and COL Peter Reddy, the USMC director of Product Group 23. The second team visited the Communications and Electronics Research, Development, and Engineering Center's (CERDEC) Space and Terrestrial Communications Directorate to discuss the viability of commercial cellular networking technologies for tactical employment on the battlefield.

On 22 Sep, the American Society for Engineering Management (ASEM) went to Yonkers and volunteered to help in the building of a set of houses for veterans returning from Afghanistan. 15 cadets were from the Systems Engineering Department and two were from BS&L. Overall the trip was a great success and positive influence in a practical way on the local community. The image of West Point cadets was enhanced both in the eyes of the local communities and the staff of Habitat for Humanity. In addition to the great community service, cadets were able to see firsthand components of the engineering process involved in renovating dilapidated structures. The ASEM club looks forward to returning next semester to continue helping with the project until the homes are complete.



Department of Physics and Nuclear Engineering

Completed Events

Class Visit: On 17 September, the PH361, Experimental Physics class had two visitors.

Mr. Juan Ochoa, is a staff member of MIT Lincoln Laboratories laser technology and application group. Mr. Ochoa gave a presentation to cadets enrolled in PH361 about the application of Fourier transforms in laser beam quality studies. The second visitor was Mr. Patrick Gill, manager of instructional technology for USMA's Center for Faculty Excellence. Mr. Gill visited the class to help cadets with setting up their iPads for a class project that is a technically collaborative effort between MIT Lincoln Labs' laser technology and applications group as well as their technology office and the Academy.



Dr. Daniel Ripin and Mr. Juan Ochoa of Lincoln Labs proposed a project to be executed by cadets enrolled in the Experimental Physics class, and this is the second reason behind Mr. Ochoa's visit. He talked to cadets about the 'Argus, the Watcher' project aimed at using the sensing capabilities of a classroom set of iPads to form a perimeter detection system that would autonomously watch while the soldiers it is protecting rest. The iPads forming the perimeter communicate with each other by forming a network through Bluetooth connection and make decisions about the environment. The project is aimed at solving multiple problems

- devising software to integrate data collected by the iPads into a cohesive picture
- integrating the iPad's sensing capabilities into a system that is self-aware
- creating a graphical display that is quickly understood by soldiers operating it

-testing the standard iPad camera for night-time image taking capability
-finding out if the standard iPad camera is useful or can be modified for night-time image taking.
This school year is the starting year for the project that will continue in the future. As the project nears completion it will be entered in the open design category for creative new ideas of MIT's Soldier Design Competition.

Visit: During 24-25 September, the Nuclear Science Engineering Research Center (NSERC) and Nuclear Engineering Program hosted two faculty members from US Naval Academy (Department of Mechanical Engineering), Professor Marty Nelson and Assistant Professor Millet, where they are standing up a nuclear engineering major. The faculty came to gather some lessons-learned from standing up our program and to get a pulse on how we currently operate and interact with the NSERC.

Future Events

Colloquium: On 28 September, COL Bryndol Sones and LTC Ken Allen will present a colloquium to the Department on linear accelerator capabilities.

Department of Geography and Environmental Engineering

1. Guest Lecture – EV450 (Environmental Decision Making). Cadets enrolled in EV450 (Environmental Decision Making) received a lecture from Ms. Ann Polaneczky about her current work with the aid organization Partners in Health (PIH) in Haiti at the Mirebalais Teaching Hospital. The talk highlighted the current conditions in Haiti and specifically Mirebalais along with the many considerations that went into the final design and building of the teaching hospital. The lecture was an excellent example of humanitarian assistance in developing countries and she spoke on the many challenges PIH had to overcome, the criticality of stakeholder coordination, and the measures being taken to achieve the end state of an advanced hospital that can be sustained by the Haitian Ministry of Health. This lecture complimented the term project that the cadet's are completing throughout the semester where they develop a humanitarian assistance solution to a developing village in either Cambodia or Uganda. The POC is MAJ Thomas, russell.b.thomas@usma.edu.



Picture: Ann Polaneczky responding to questions from faculty

2. Coordination with the US Institute of Peace. CSCMO's John Melkon attended the United States Institute of Peace Swearing-in Ceremony for new President, Representative Jim Marshall, in Washington DC on 14 Sep. Rep Marshall is a former Chairman of the USMA Board of Visitors. USIP hosted the CSCMO's first sponsored AIAD in summer 2012 and is committed to continuing a relationship for future learning opportunities. The visit also enabled Mr. Melkon to conduct discussions with key members of Rep. Marshall's staff for coordination. The POC is Mr. John Melkon at john.melkon@usma.edu.



Picture – Representative Marshall is sworn in as President of the US Institute of Peace.



3. EV300 (Environmental Science) Biodiversity

Lab: On 12 and 13 September, 176 cadets in EV300 (Environmental Science) took part in an exercise to conduct a systematic biodiversity inventory of their local environment. The cadets assessed the number of unique species found in plots located in the vicinity of Flirty Walk. They will use their collected data to develop a species-area model and consider implications of measuring and preserving biodiversity. The cadets enjoyed the outdoor field work on these two beautiful days. The POC is MAJ Steve Lewandowski at Stephen.lewandowski@usma.edu.

Picture: Cadets from CPT(P) Robbins' section mark their plots



Picture: A black rat snake (*Elaphe obsoleta*) wants to be counted (non-venomous, but said to have a painful bite).

4. Field Trip – EV388A (Physical Geology). On 24 Sep EV388a Physical Geology students participated in a field trip to local rock outcrops as well as the Tomkins Cove and Haverstraw, NY Tilcon quarries. Cadets were able to see an outcrop that records much of the geologic history of the east coast as well as good exposures of the world famous Palisades Sill. They also discussed quarrying operations with the knowledgeable staff at these quarries. These quarries have supplied aggregate for most of the area roads and crushed stone for the foundations of many of the area's most famous buildings to include the Empire State Building and the new Yankees and Giants stadiums. POC: marie.johnson@usma.edu



Picture: EV388a Physical Geology students pose with Caterpillar bucket truck used to load haul trucks at the Tilcon basalt quarry on Route 9W in Haverstraw, NY.

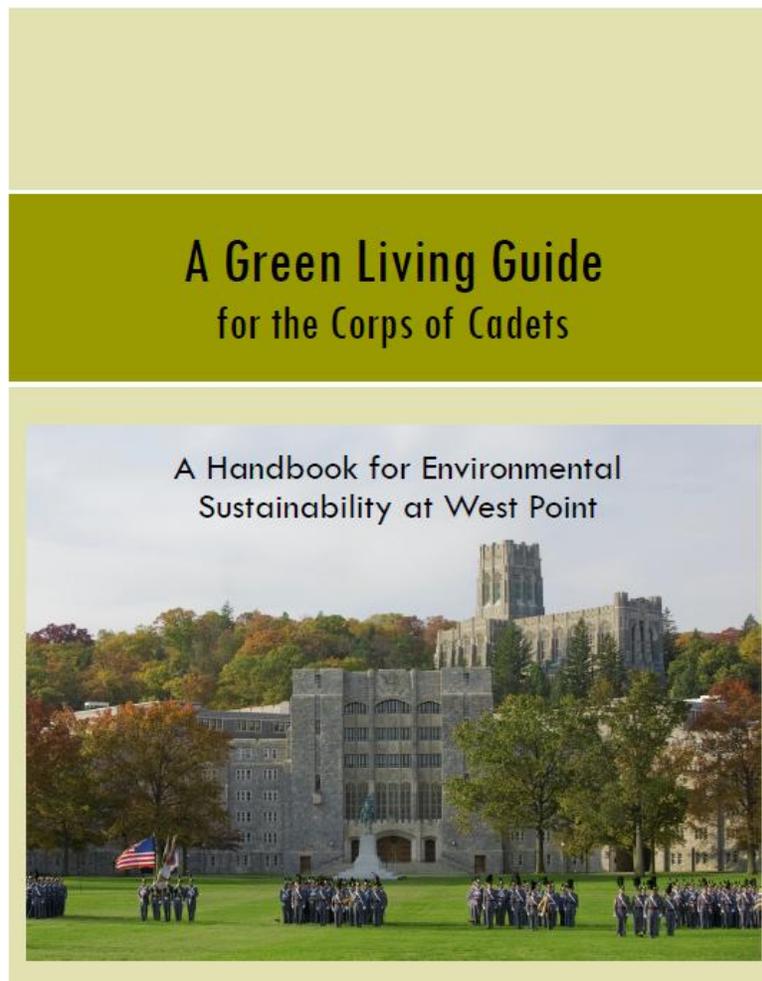


Picture: CDT Will Anderson (Environmental Science major, Class of 2014) stands in front of the basalt dike intruding into the metamorphic gneiss outside Stony Lonesome gate.



Picture: CDT Kristen Constantino gets a sense of the size of the tire on a haul truck at the Haverstraw basalt quarry.

5. Green Living Guide for the Corps of Cadets. On 21 September, the Department of Geography published the “Green Living Guide for the Corps of Cadets: a Handbook for Environmental Sustainability at West Point”. The 18-page document provides a blueprint for cadets to live more sustainably in the Corps and covers topic areas such as solid waste management (e.g., recycling), water conservation, and energy conservation. MAJ Andrew Pfluger was the primary author and editor of the document. Contributing authors include Dr. Marie Johnson, LTC Mark Smith, Mr. Stan Brown (MWR Recycling), and Mr. Ray Parrott (USCC S4). The Guide also begins with a letter of support from COL Joe DeAntona (Brigade Tactical Officer) and COL Wiley Thompson, Head, D/G&EnE. The document will be primarily distributed electronically and will be available on the D/G&EnE external website. The POC is MAJ Andrew Pfluger at andrew.pfluger@usma.edu.



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Picture: The cover of the Green Living Guide for the Corps of Cadets.

6. Guest Lecture – Director of NATO’s Civil-Military Cooperation Center of Excellence. The Center for the Study of Civil-Military Operations (CSCMO) welcomed a visit and lecture by the Director of

NATO's Civil-Military Cooperation Center of Excellence (CCOE) and members of his staff. The CCOE Director, Colonel Hans Juergen Kasselmann lectured more than 90 cadets on his subject "Train as You (Inter) Act", which highlighted and reinforced an international commitment to the importance of civil-military operations in the education of future junior officers. Kasselmann has pledged CCOE's available expertise in the development of appropriate CIMIC/CMO training courses and other education. The visit also identified future opportunities in developing partnership options between CCOE and CSCMO; including an immediate offer of AIAD's for West Point cadets within the CCOE. The POC is Mr. John Melkon at john.melkon@usma.edu.



Picture: Colonel Hans Juergen Kasselmann lectures on the subject "Train as You (Inter) Act".



Picture: Members of NATO's Civil-Military Cooperation Center of Excellence (CCOE) and members of USMA faculty (Mr. John Melkon, MAJ Dustin Menhart, LTC Andy Lohman, and MAJ Jordan Francis, D/FL) pose for a post-lecture picture.

7. 2012 Green Gov Award for the "Green Dream Team". The United States Coast Guard Academy, in conjunction with USMA and the US Fish and Wildlife Service, was awarded the 2012 White House Council for Environmental Quality's Green Gov Award for collaborative sustainability efforts on 24 September. USCGA's Sustainability Club has worked closely with USMA's Energy and Environment Chain of Command and our Sustainability Club (Engineers and Scientists for a Sustainable World) over the past year to bolster environmental sustainability efforts at both academies. MAJ Andy Pfluger and LTC Mark Smith have taken the lead for collaboration with USCGA. Specific projects between the two service academies include the development of a Service Academy Competition as part of RecycleMania and laying the foundation for cadet positions focused on energy and environment issues within USCGA's cadet chain of command (similar to West Point's). The full award write-up, which includes all of the collaborative efforts USCGA has initiated, can be found at the following website:

<http://www.fedcenter.gov/Announcements/index.cfm?id=22295>

The POC for this submission is MAJ Andrew Pfluger at andrew.pfluger@usma.edu.

Department of Foreign Languages

Completed Events

Arabic. Four Arabic SAP cadets are currently in their third week of classes at Al Akhwayn University in Ifrane, Morocco.

Four Arabic SAP cadets are currently in their fourth week of classes at Al Qasid University in Amman, Jordan.

SAP CDT Zach Taylor completed his fourth week of classes in Muscat, Oman at the Center for International Learning. The Center hosted a trip to the ancient city of Nizwa and a local Wadi last weekend. An upcoming trip this weekend will take place in the markets of Muscat.



In this photo: Cadet Zach Taylor with two instructors from Center for International Learning, Hazim and Faisal.

Arabic DCA Event: The Arabic Club met on Friday, 21 September, 1900 in WH5003 to view and discuss the film *The Battle of Algiers* and to plan an Arabic Speaking Lunch and trip to New York.

French. SAP Cadets are currently in classes at their respective universities; eight at St. Cyr, two at Université Catholique de Lyon, and two at Université Catholique de Lille. Cadets took part in the “bahutage”, which is the welcoming period and transmission of Traditions to new cadets by their superiors. Cadets crawled through the ditches of St. Cyr, entered the lake and swam to shore where the senior cadets greeted them and welcomed them into the corps. A separate but equal event was held for international cadets. A thorough examination of history and artifacts at the St. Cyr museum concluded events at The Academy. Next week, Cadets at St. Cyr travel to Paris and l’Hôtel national des Invalides (burial place of Napoléon) as another part of the tradition of linking and passing on Traditions and Customs from one class of French cadets to another (le binôme).



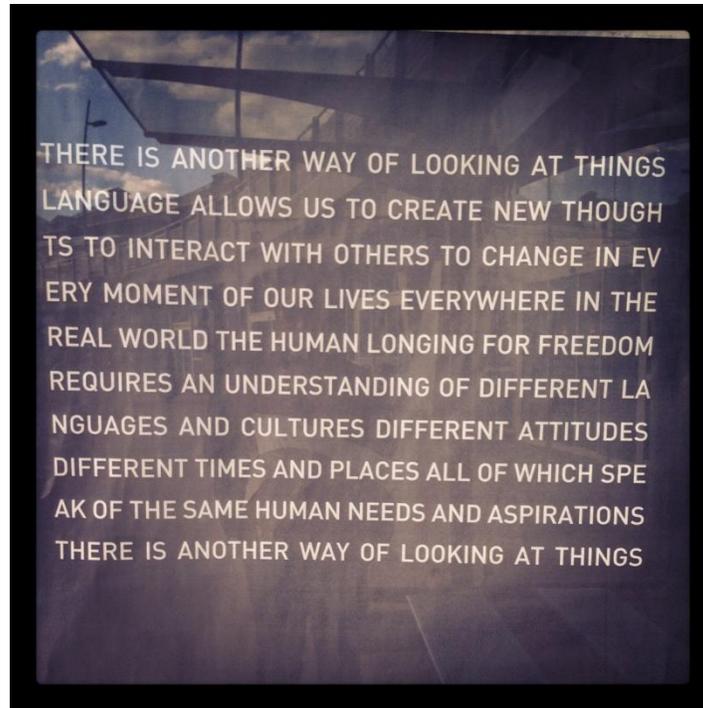
In this photo: CDT Cameron Ayala '13 sits atop an obstacle at St. Cyr and is armed with a French FAMAS, their 5.56mm service assault rifle. "Futur DOLO" is a measure of a cadet's ability to overcome the obstacle and earn the honor of one day scaling the Dolomite Mountains. "Mal préparé" is one not yet ready for the challenge.

SAP Cadets at the Université Catholique de Lille, CDTs Lewis and Smith, continue their experiences in the culture and language of France. CDT Smith has teamed with a French student for English lessons and in return, is receiving soccer lessons.



In this photo: CDT Max Smith '13 (far left) enjoys accompanying classmates and soccer teammates to a Lille Championship League soccer match.

SAP CDTs Rogacki and Botero at Université Catholique de Lyon, travelled to Milan, Italy with a French host. They take regular advantage of course outings to local historical and cultural sites where language and culture come together.



In this photo: CDT Christian Botero took this photo during a trip to Milan, Italy. It sums up the global value of foreign language skills. Note the lack of punctuation and hyphenation of split words and the way it pauses your reading and thoughts.

German. German SAP cadets continue their immersion experiences arriving at their academic institutions in Hamburg and Munich, Germany, and Wiener-Neustadt, Austria. After their university orientation, cadets in Hamburg went to the training area for platoon-level shooting exercises conducting both day and night time events with German weapons using plastic ammunition.



In this photo: Cadets Christopher Smith '14 and Matthew Ryan '14 pose with their German Lieutenant sponsors while training at the German Army Officers School in Dresden.

On Friday, 28 September, DFL will host the annual Oktoberfest prior the Army-Stony Brook game. Many DFL staff, faculty and family members are ready for another successful Fall Festival for Staff and Faculty families, International Cadets and Officers, as well as DFL majors from the classes of 2013 and 2014.

German DCA Event: German Language cadets in LG371 will entertain the DFL Oktoberfest with a traditional dance on Friday, 28 September. Approximately 15 cadets will be lead by the LG371 course director Dr. Xenia Harwell and CDT Michael Geissler, '15, B1.

Portuguese: This weekend cadets taking Portuguese and faculty from DFL attended SSG Kristen Mather de Andrade's Latin music recital at West Point. SSG Mather introduced LTC Cinelli, the Brazilian Liaison Officer who teaches Portuguese in DFL, and LTC Baker, the Portuguese Section Chief, and asked them to describe some of language immersion experiences that the Military Academy offers cadets. She also invited DFL students to attend her recital and several of them came to enjoy her music. Her ensemble consisted of several musicians from the band and featured DFL's Information Technology Specialist, Rob Helsel, on guitar. SSG Mather's concert showcased several Brazilian songs as well as tangos from Argentina, music from Venezuela and the popular tune "Besame Mucho" from Mexico. SSG Mather, a clarinetist in the West Point Band, impressed the audience with her musical talent as she played her clarinet and sang for them.



In the photo: SSG Mather, far left and Rob Helsel, fourth from the left with the members of the band and the cadets on the right.

Network Science Center

For the latest information from the Network Science Center visit our blog, **The Central Node:**
<http://blog.netsciwestpoint.org/>

Researchers attend 2012 Crowds and Populations conference

Kate Coronges, Hilary Fletcher and MAJ Benjamin Hung attended an ARO sponsored conference “Crowds and Population” which took place in Los Angeles CA from 6-8 September 2012. The conference was held at USC, and included a small group of invited attendees from academia, government & local law enforcement. Researchers had the opportunity to meet others interested in using network models and computational and social sciences to understand group dynamics - with particular attention on how cultural information and beliefs spread through communities. This conference was a tremendous opportunity for USMA to build relationships with other government organizations, ARO in particular, as well as other academic research teams who are active in DoD related studies.

ORD

Gross Attendance Report 18 - 25 Sep 2012

Date	CADET ABSENCES	ABSENCES	ARRIVED LATE	DEPARTED EARLY	TOTAL
25-Sep-12	171	263	56	1	320
24-Sep-12	155	269	40	2	311
21-Sep-12	494	984	48	3	1035
20-Sep-12	148	261	50	3	314
19-Sep-12	116	168	44	6	218
18-Sep-12	103	176	57	7	240

Cadet Absences equals number of cadets absent 1 or more class period

Absences are the number of classes missed by the cadets that were absent

Department of Social Sciences



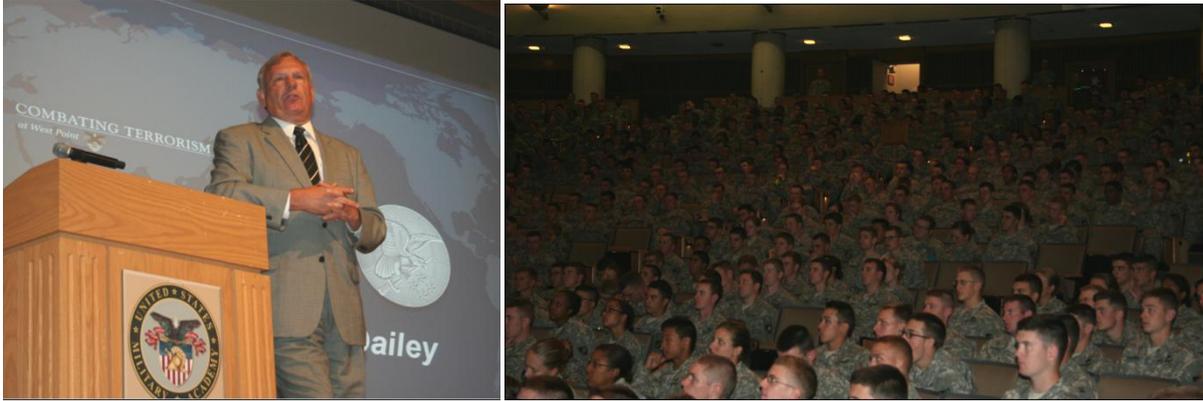
The CTC hosted a high-ranking delegation of police officials from Malaysia and representatives from the US Department of State, Diplomatic Security Service on Monday, 17 September 2012. Select CTC staff and faculty, including Deputy Director Todd Schultz, Dr. Scott Helfstein, Don Rassler, and Joe Quinn, joined CTC Director MAJ Bryan Price in briefing Malaysian officials on the CTC's structure and operations. The Malaysian delegation was interested in taking the CTC model back to their home country to enhance their counterterrorism efforts.



LTC Jon Brickey attended the Italian Carabinieri Corps Advanced Institute for Investigative Techniques seminar on Investigating Cybercrime in Velletri, Italy, 18-19 September. The conference is part of the European Police College (CEPOL) program designed to discover new approaches for investigating digital communication channels used to commit crimes and acts of terrorism. LTC Brickey spoke on several topics including the CTC overview and Imagery Project, Cyber-terrorism, and Cyber at West Point.

The CTC hosted the first movie lunch of this academic year titled "*Blood in the Face*," a documentary film about white supremacy groups in North America. Using a blend of interviews and archive footage, this documentary offers an eye-opening look at neo-Nazism and its proponents in the United States. Twenty-two cadets and 10 faculty members attended the event. After the movie, the cadets engaged in a Q&A session with faculty.

The CTC conducted 32 hours of Introductory Terrorism, Origins and Ideologies training from 18-21 September 2012 at the Orlando Regional Field Office instructing 50 FBI Special Agents, counterterrorism analysts, task force officers and state and local police from around the United States. Results of the class were very positive and the CTC was asked back by the Assistant Special Agent-in-Charge in Orlando for follow on training.



On 20 September 2012 the CTC held its annual Yearlings' class lecture. The keynote speaker was Ambassador Dell Dailey who spoke with cadets about the various dimensions of U.S. counterterrorism strategy, lessons learned from ten years of war, and how our nation should confront future related challenges. Following the lecture, AMB Dailey addressed cadets' questions.

Army Debate Team Competes in Season Opener

This weekend the West Point Debate Team competed in their season opener in Binghamton, NY. Major Josh Glonek in the Department of Social Sciences served as OIC during the trip. Eight teams competed in the tournament including numerous first time collegiate debaters. The West Point team won both the Novice and Junior Varsity divisions. The novice team of Cadets Theo Lipsky and Caleb Stevens defeated Carroll University in the final round while taking the 1st place and 4th place novice speaker awards respectively. The JV team of Cadets Leslie Cornelius and Jay Saker defeated Rutgers in the final round and in doing so, CDT (Plebe) Saker took the 2nd place JV speaker award. Additionally, the JV team of Cadets Jarrod Odom and Andrew Houchin successfully won a spot in the elimination rounds, until finally losing in the octo-finals. The team will compete this weekend in the Clarion University Debate Tournament.



Army Debaters show of their handmade trophies from Binghamton this past weekend. Pictured from Left to Right: Leslie Cornelius & Jay Saker (4th place JV speaker) won the Novice division while Caleb Stevens (4th place speaker) and Theo Lipsky (1st place Novice speaker) won the novice division. Go Army Debate!

Department of Civil and Mechanical Engineering

COMPLETED

- 1. West Point weighs-in on DARPA future ground technology efforts:** Two members of the West Point faculty participated in a telephone conference on 21 September with representatives from the USMC, Army, USAF and DARPA to assist in brainstorming new ideas for pursuit of “DARPA-hard” technological solutions to solve ground force problems over the next 20-30 years. LTC Sam Amber from D/P&NE and the SMDC Research and Analysis Center is a DARPA fellow working in Arlington this quarter; LTC Bruce Floersheim (D/CME) has been engaged with DARPA on a variety of technological pursuits through the Center for Innovation and Engineering. POC: LTC Bruce Floersheim, bruce.floersheim@usma.edu.
- 2. Center for Innovation and Engineering Kicks Off the AY12-13 Soldier Design Competition and REF Grand Challenge:** Faculty members interested in working with cadet teams to participate in the 10th Annual MIT-USMA Soldier Design Competition and the 2nd Annual Rapid Equipping Force Grand Challenge met in Mahan Hall to discuss this year’s challenge topic areas, timeline and funding opportunities. Those in attendance were encouraged to build multi-disciplinary cadet teams and leverage existing independent study courses and/or capstone design courses as the academic platform for their efforts. In the last two years, West Point teams have brought home \$16,000 in prize money from the Soldier Design Competition and have several projects that have continued in development with Army labs. Two projects have filed for provisional patents in the last year. Projects may be entered into both competitions, which occur in the spring semester. Projects entered under the REF Grand Challenge may be supported with funding up to \$20,000 per project with submission and

acceptance of a written proposal. The competitions are looking for development of hardware/technologies/procedures. Non-engineering faculty and students are encouraged to join engineering teams to partner in this effort across disciplines. Topic areas generated from Army S&T priorities and the REF Integrated Priority List include:

- Dismounted IED Defeat
- Dismounted soldier sustainment support/soldier load reduction
- ISR Shortfalls in Environmentally Inhospitable Operational Environments (OEs)
- Small COP/PB Force Protection and Sustainment
- Dismounted Blue Force Tracker (BFT) and Mission Control (MC)
- Soldier Injury Mitigation
- Other (Examples: Advanced Escalation of Force and Non-Lethal Messaging, Improved Training/Fielding Process for REF equipment, etc)

POC: LTC Bruce Floersheim, bruce.floersheim@usma.edu.



10th Annual Soldier Design Competition (SDC)
sponsored by the
MIT Institute for Soldier Nanotechnologies



Serving soldiers while serving students

The Soldier Design Competition was established to primarily help Soldiers and Marines in combat today, as well as assist first responders within our local communities. This unique and innovative event offers MIT students and West Point cadets the opportunity to apply their creativity to solving current Soldier technology challenges with prototype designs while meeting Soldiers and discussing their efforts with key members of the military, academia, and industry.

Cash Awards for student project teams:
Prize money awarded to top six teams
First Place team receives \$5000

MIT Coordinator: Kurt Keville
USMA Coordinator: LTC Bruce Floersheim

3. **West Point Center for STEM Education, CSE, with C&ME Cadets Conduct Outreach with Detroit Focus: HOPE.** During the period 21-23 September, Cadets Joseph Speight '13, Joe Cotton '14, Simon Fraser '14, Brad Brownfield '15, MAJ Cullen A. Jones, and Ms. Cathy Bale traveled to Detroit, MI to conduct a STEM Outreach day with 7th and 8th graders from the greater Detroit area. The trip was sponsored by the West Point Center for STEM Education, the Directorate of Admissions, and the Detroit-based Focus: HOPE organization. Focus: HOPE is a non-denominational, non-profit organization whose aim is to provide education and training for underrepresented minorities and others. During the daylong event, Cadets mentored the students as they designed virtual bridges using the West Point Bridge Designer software, interpreted construction plans to build structures with K'NEX construction sets, and competed in the design and construction of K'nex bridges. The cadets also had an opportunity to engage with the students regarding cadet life, their West Point experiences, and the importance of STEM education. The points of contacts are MAJ Cullen Jones (cullen.jones@usma.edu) and Director of Outreach for CSE, Ms. Cathy Bale (catherine.bale@usma.edu)



Pictured 1CDT Brad Brownfield '15, MAJ Cullen Jones, C&ME Assistant Professor, CDT Joe Cotton '14, CDT Joseph Speight '13 and CDT Simon Fraser '14 with some of the students that attended the Detroit Focus: HOPE STEM Outreach Day.



Pictured 2 – CDT Joe Cotton '14 assists two students in design of a virtual bridge using the 2012 West Point Bridge Builder program.



Pictured 3 – CDT Joseph Speight '13 along with CDT Simon Fraser '14 and CDT Brad Brownfield '15 discuss the effects of loading on a bridge with the STEM students.



Pictured 4 - The STEM students enjoyed the load testing of the bridges to determine their maximum capacity



Pictured 5 - MAJ Cullen Jones and CDT Simon Fraser '15 complete load testing on a student designed bridge

Department of Behavioral Sciences and Leadership

Completed Events

Follow BS&L on Facebook: <http://www.facebook.com/pages/West-Point-NY/Department-of-Behavioral-Sciences-Leadership/44253274507>

Cadet Development:

BS&L Majors Expo.

On 18 September, BS&L held a departmental expo from 1830 to 2030, featuring its five majors (Management, Leadership, Sociology, Engineering Psychology, and Psychology). The expo attracted many cadets and enabled them to meet the program faculty and speak with current majors about their experiences with the courses, departmental clubs and activities, and BS&L AIADs. **POC: LTC Todd Woodruff, BSL, x1788.**

Branch Week Support.

Last week, LTC Patricia George volunteered to assist with Branch Week at the Adjutant General Tent with the AG Schoolhouse representative LTC Cort Hunt. In addition, LTC Patricia George and MAJ Adam Grim volunteered at the Branch Tailgate AG Tent following the football game and provided cadet's information on the necessary knowledge, skills and abilities that are needed to be a successful Human Resources Specialist as well as a list of potential positions they would have an opportunity to fill as an Adjutant General Corps Officer. **POC: LTC Patricia George, BSL, x5589.**

Classroom Initiatives:

PL393: Criminology: Guest Speakers from the Sing Sing Correctional Facility.

On Wednesday, 20 Sep, PL393: Criminology hosted two guest speakers from the Sing Sing Correctional Facility in Ossining, NY. Dr. Lesley Malin (Deputy Superintendent for Programs) and Captain Ronald Brereton (Deputy Head of Security) spoke to both sections about the corrections process in the State of New York, especially how it differs from other states, and they also spoke about the history and current disposition of Sing Sing Correctional Facility. Cadets were able to ask them questions about their jobs and the various programs available to offenders, and the guest speakers also joined the cadets for lunch in the Mess Hall. **POC: MAJ Dave Uthlaut, BSL, x3270.**

PL390 Biopsychology Course: "Sheep Brain Dissection."

Last week, Dr. Matthews conducted a class on the major structures of the brain in his PL390 Biopsychology Course. He had the cadets conduct a sheep brain dissection in the laboratory to familiarize the engineering psychology, psychology, and life sciences majors with the major structures of the brain. Special emphasis was given for the anatomical bases of traumatic brain injury, and to structures and systems that underlie important Soldier functions such as motor performance, decision-making, and reaction to adversity and stress. **POC: Dr. Mike Matthews, BSL, x3696.**

Picture below: "Cadets in Biopsychology dissecting sheep brains under the direction of Dr. Mike Matthews"



PL479: Leading Organizations Through Change: Guest Speaker.

On 20 September, Mr. Buddy Gengler spoke to cadets enrolled in PL479: Leading Organizations Through Change. While deployed to Iraq he applied his West Point Management education toward starting a Line-of-Credit and "Small Business Administration Initiative" for Iraqi entrepreneurs throughout the Sunni Triangle, providing liquidity lines to small business owners looking to open markets and in need of inventory. During a security patrol Mr. Gengler suffered a severe lower leg injury leading to a medical discharge. He currently works as a managing director and director of due diligence for Harch Capital Management. Mr. Gengler's talk focused on being an effective change leader and managing during times of uncertainty in the military as well as civilian organizations. **POC: MAJ Russ Lemler, BSL, x5628.**

PL150 and PL100: SIM Center Visit.

Dr. Korenman's PL150 and Ms. Dodge's PL100 classes visited the SIM Center for a lesson on Problem Solving and Decision Making. Using the tactical planning game Follow Me, cadets learned about thinking through a mission, ways of approaching a given problem and how to analyze potentially faulty decision making.

POC: Dr. Lisa Korenman, x4806.

Pictured below: Ms. Melanie Dodge in the back left-hand corner of the photo, assisting cadets during the tactical planning game.



Faculty Updates:

Leadership Development Seminar.

On 19 September 2012 Dr. Mike Matthews and former BSL member Dr. Patrick Sweeney conducted a workshop on leadership in dangerous situations for the United Nations Children's Fund (UNICEF) Senior Leadership Development Seminar at Glen Cove, New York. The audience included over 30 of UNICEF's country and regional leaders from missions located around the world. The workshop presented strategies for UNICEF leaders to prepare and manage their staff, who often work in politically unstable and dangerous locations. **POC: Dr. Mike Matthews, BSL, x3696.**

Pictured below: Drs. Matthews and Sweeney with UNICEF world leaders.



West Point Chapter of National Society of Black Engineers.

On 18 September, the West Point Chapter of National Society of Black Engineers hosted faculty from 3 different STEM departments: COL Huggins (EECS), MAJ Nunn (Systems), and CAPT Williams (Life Sciences). It was an opportunity for cadets to learn about the research in the different programs and to be able to ask questions about the course work. In attendance, 35 NSBE cadets mostly yuks. **POC: Dr. Rovira, BSL, x5002.**

Pictured below: Cadet Barry Ball, NSBE President, is introducing the 3 guests to the participants to the audience.



West Point Negotiation Project.

On 18 September, 110 cadets participated in a Negotiation Project "Brown Bag Lunch Session" in the Department of Behavioral Science and Leadership. During an interactive session, cadets considered the

range of human interactions that constitute negotiation and the importance of negotiation as a leader competency. Cadets participated in an exercise that illuminated the role of assumptions in negotiation situations, saw examples of junior officers negotiating in Iraq and Afghanistan, and learned about negotiation education resources available to cadets at West Point. **POC: MAJ Neil Hollenbeck, BSL, x2866.**

Department of Chemistry and Life Science

1. C&LS hosts a Guest Speaker from Armed Forces Radiobiology Research Institute!!

Dr. Alexandra Miller, a senior scientist at the Armed Forces Radiobiology Research Institute, addressed cadets and faculty on current work being by Army scientists to characterize and reduce the threat of ionizing radiation on living tissue. Dr. Miller discussed potential IADs for cadets and a graduate program for incoming officers who will be stationed to teach at West Point.



2. Dr. Ken Wickiser is Published Again!

Dr. J. Kenneth Wickiser (C&LS) and MAJ Paulo Shakarian, PhD (EECS) collaborated on a project to analyze the protein networks in both plants and humans as they're attacked by species-specific pathogens. Using k-shell analysis, the network was determined to have unexpected characteristics that could be used as a predictive tool for other biological networks. Pathogens straddle a fine line between increased pathogenicity and premature death of the host cell. The authors discussed the structure of the network and related it to the biology of optimal virulence. The research was supported by OSD through the Network Science Center at West Point.

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0045154>

3. LTC Norm Waters Represents USMA and the Army at International Conference

LTC Norman C. Waters attended the 23rd Annual Molecular Parasitology Meeting at Woods Hole, Massachusetts on 22-24 September 2012. This was an international meeting that focused on the cell biology and biochemistry of protozoan parasites. Many of the parasites and associated diseases, (malaria, leishmaniasis and trypanosomiasis) are of military importance. The conference educated LTC Waters on the latest developments in the biology of these parasites. This knowledge serves as the basis for the development of antiparasitic measures to control these diseases. In fact, several scientific sessions were dedicated to the development of novel antiparasitic drugs. As a US Army malariaologist and Subject Matter Expert, attendance at the meeting provided LTC Waters an opportunity to stay abreast of developments in his scientific field. While at the conference, LTC Waters also had an opportunity to discuss collaborative research projects with several investigators and learn new techniques to apply to his research projects at USMA.

4. Fire up the Corps Spirit Demo!

On Friday 21 September 2012, the West Point Chemical Engineering Club team of Cadet Matt Letarte, American Institute of Chemical Engineers Club President for AY13, Cadet Dan Prior, American Institute of Chemical Engineers Club Vice President for AY13, and members of the class of '13 Chemical Engineering majors, brought "Fire on Wake Forest!" with controlled detonations of hydrogen balloons in front of the Beloved Bartlett Hall. This spirit demo fired up the corps between classes! Fellow flame throwing Chemical Engineering Cadets on the spirit demo team: Dillard, Emig, Fitzgerald, Goldstein, Herrera, Hill, Kappes, Letarte, Moore, Nguyen, Prior, Riley, Ruiz, Sullivan, and Todd. And there was Army Strong! Faculty support from CPT John Williams, MAJ Jim Gifford, LTC "Boze" Bozic! Go Army! Beat Wake Forest!



The Institute for Innovation and Development (IID)

Research Operations (RO)

The closing out of all financial transactions for our external funding for FY12 to transition to FY 13 is in progress this week. This is our first full year of using GFEBs, and it has been challenging.

Type	Qty	Value
MIPRs	159	\$15,007,012
Direct Charges	16	1,837,630
CRADAs	4	205,000
		\$17,049,642
External Funding as of 26 Sept 2012		