



UNITED STATES MILITARY ACADEMY
WEST POINT

PROJECTS DAY

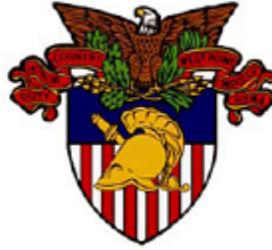
Promoting Academic Excellence

May 3, 2012



dean.usma.edu/Projects

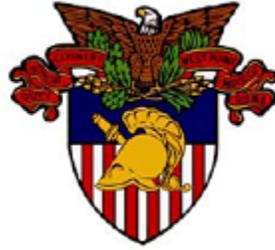




The United States Military Academy

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Veterans Affairs
Walter Reed Army Institute of Research (WRIAR)
Warrior Transition Unit Cadre
Washington Penn Plastics
West Point Association of Graduates
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Presentations will be held in the following locations by the Departments and Centers listed below:

Locations:

BH: Bartlett Hall
BHN: Bartlett Hall North
MH: Mahan Hall
TH: Thayer Hall
WH: Washington Hall
LH: Lincoln Hall
LHB: Lincoln Hall Basement
WPCB: West Point Club Ballroom
LAW: Building 606
LAW CONF, LAW LIB: 4th floor of BLDG 606 (Admissions)
ARVIN: Arvin Cadet Physical Development Center
WH Benavidez Room: 5th Floor Washington Hall, (DMI Hallway)
TH 2nd Floor: 2nd Floor Thayer Hall, (Math Hallway)

Departments:

BS&L: Behavioral Sciences and Leadership
C&LS: Chemistry and Life Sciences
CME: Civil and Mechanical Engineering
CPDE: Center for Physical Development Education
EECS: Electrical Engineering and Computer Sciences
DEP: English and Philosophy
DFL: Foreign Languages
GENE: Geography and Environmental Engineering
HIST: History
LAW: Law
DMI: Military Instruction
MATH: Mathematical Sciences
NSC: Network Science Center
PANE: Physics and Nuclear Engineering
SOSH: Social Sciences
DSE: Systems Engineering
DSS: Defense and Strategic Studies
WPSC: West Point Simulation Center

Special Thanks to the following staff and faculty that made Projects Day possible:

Academy Research Committee:

LTC David Borowicz, Dr. Bill Brechue, Dr. Kathleen Campbell, LTC Liam Collins, COL Steve Fleming, COL Andy Glen, , LTC Kraig Sheetz, Dr. Jonathan Gumz, LTC Paul Kucik, LTC Steve Lasse, Mr. Rick Metro, LTC Bill Pearman, COL Jim Raftery, Dr. Jon Steigman, COL Dave Wallace, LTC Bruce Floersheim, Ms. Kathy Bale, *Also*: Ms. Claudia Phillips, Stewardship Manager, Directorate of Academy Advancement, Ms. Rebecca Meese, Mr. Damian Shepard



OFFICE OF THE DEAN
UNITED STATES MILITARY ACADEMY
WEST POINT, NEW YORK 10996-5000

May 03, 2012

Welcome to West Point!

We are excited you could join us at this year's Projects Day. Today you will have the opportunity to experience the culmination of months of efforts from our staff, faculty, and most importantly, our cadets.

From its modest beginnings in 2000, Projects Day has continued to grow every year, increasing the collection and variety of projects we showcase this day. At this year's event, the projects you will see represent the efforts of our cadets from fourteen USMA Departments and even of students from various other colleges also participating. Today, we have over 250 presentations, each a transparent display of the intellectual capital of our students.

During this day, Senior class members get to present their senior thesis, capstone projects, or research activities to their fellow cadets, faculty, clients, and to the general public. In some instances, they are even asked to present to groups of guest evaluators. All presentations are scheduled from 7:30 am to 4:00 pm in various academic buildings throughout the post, including the Arvin Cadet Physical Development Center, Taylor Hall, the West Point Club Ballroom, Mahan Hall, Washington Hall, Thayer Hall, Cullum Hall, Jefferson Hall, Bartlett Hall, Building 606 (Law) and Lincoln Hall.

Highlights of today's events include the capstone design projects, competition projects, poster displays, and numerous presentations on various topics relevant to the Army and our society. This year, cadets will be competing for the fourth annual Scott R. Clark (USMA 1985) Innovation for Soldiers Award. This award is presented to a cadet project that will demonstrate an innovative approach to solving a problem of direct application to the Army.

We welcome all guests who will be attending this year's event, especially the guest evaluators and judges, students, and faculty from visiting schools. Additionally, we welcome special guests of the Academy and the West Point Association of Graduates. They have made significant gifts to West Point and the Long Gray Line.

I invite all of you to walk around, and satisfy your academic curiosity regarding any of these projects as you get to hear our cadets talk about their work. I thank you for coming to West Point today and hope you enjoy the day!

Sincerely,

A handwritten signature in black ink, reading "Timothy E. Trainor".

TIMOTHY E. TRAINOR, Ph.D.
Brigadier General, US Army
Dean of the Academic Board

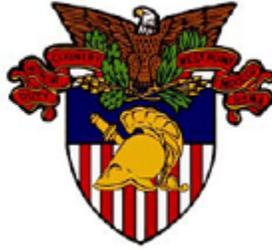
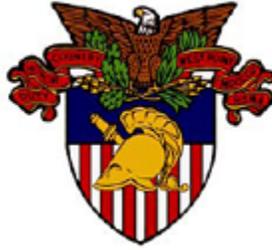


Table of Contents

Projects Day Sponsors	4
Index of Location and Department Names	5
List of Projects Day Faculty and Staff	5
More events	6
The Scott R. Clark Innovation Award	7
Maps of West Point	8-11
Projects Day Schedule of Events (Chronological Order)	12-25
Departmental Schedules:	
Behavioral Sciences and Leadership	26-27
Chemistry and Life Sciences	28-29
Civil and Mechanical Engineering	30-31
Electrical Engineering and Computer Sciences	32
English and Philosophy	33
Foreign Languages	34-35
Geography and Environmental Engineering	36
History	37
Law	38
Mathematical Sciences	39
Network Science Center	40
Physics and Nuclear Engineering	41
Physical Education (Center for Physical Development Education)	42
Social Sciences	43
Military Instruction (West Point Simulation Center)	44
Defense and Strategic Studies	44
Systems Engineering	45-50
General Donald R. Keith Memorial Cadet Capstone Conference Schedule of Events	46-50
West Point Bridge Design Contest Final Round	51



More events occurring during Projects Day

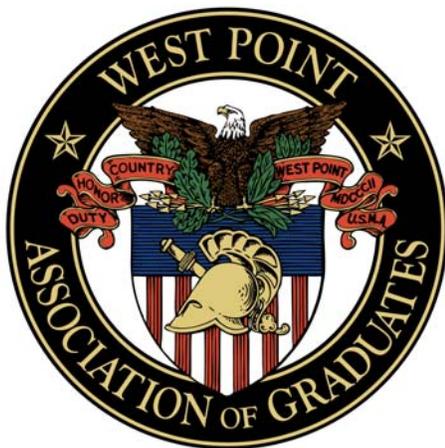
Intellectual Property and Patent Processing

The RDECOM Armaments Research Development & Engineering Center's Patent Processing group will be on West Point for the entirety of Projects Day. Located in Jefferson Hall Conference Room, Room 113, they have a staff of lawyers and intellectual property specialists present. If your project has a new concept or breakthrough embedded in the report, you need to complete a Invention Disclosure Form. This simple step will initiate the process and allow you to add "Patent Pending" to all future communications of your work. Send a project representative to JH113 between **0900-1430** with your project write up. The ARDEC team will get you through the next step!

CALDOL

Located in the tower rising off the southeast corner of Thayer Hall (the roof parking lot), CALDOL is a small, cutting-edge innovation center dedicated to connecting West Point cadets, staff, and faculty to the current experiences of platoon leaders and each other through dynamic learning experiences and products. The CALDOL team designed and continues to lead the Company Command and Platoon Leader online professional forums, which connect 20,000 cadets and officers with each other in conversation. Stop by the tower **all day** during Project's Day and learn more about CALDOL, with special emphasis on the Leader Challenge approach to leader development—which is one way that we are connecting cadets and faculty to the most challenging experiences that current platoon leaders are having in combat. Cadet feedback on the Leader Challenge: "This was the most real-life developmental experience I have had so far at USMA. No other leadership course or PME class has been as clearly applicable to me and my future as the leader-challenge series. I am better prepared to enter the Army." We look forward to seeing you on Project's Day!

—Colonel Tony Burgess



Appreciation and many thanks goes to West Point Association of Graduates

Many projects presented today were made possible by private contributions to West Point by graduates and friends through the West Point Association of Graduates.

The generosity of donors helps to bridge the crucial gap between what the government provides and what it takes to provide unique cadet learning experiences, making West Point one of the foremost academic institutions in the country.

Thank you for your support of West Point, as we work together to build leaders for the United States Army and the nation.

WestPointAOG.org
800.BE.A.GRAD

A Special Welcome to Students from:

West Point Middle School
James I. O'Neill High School
United States Military Academy Preparatory School

The Scott R. Clark Innovation Award

The Scott R. Clark (USMA 1985) Innovation for Soldiers Award is given to the project that best demonstrates an innovative approach to solving a problem of direct application to the soldier and to the Army. The donor states, "This gift is to encourage cadets to demonstrate for soldiers, innovations which can benefit soldiers." Congratulations to the following projects that were nominated to compete for this year's Clark award:

Footpath Extraction in LIDAR, Cadet John Fernandes (MATH)

Analyzing Attributes of an Effective Team, Cadets Murphy Pfohman and Jessica Sexauer (MATH)

Integrating Adaptive Smart Technology for 40mm Weapon Platforms, Cadets Mitchell T. Cucinotta, James G. Degen, Corey J. McCrury and Donald K. Van Velzer (DSE)

PEO Soldier-Flash Flame Protection, Cadets Eduardo Mendoza and Jean-Pierre Cooper (CME)

SDC-Gunshot Detection, Cadets Benjamin Poth, José Ramirez, and Matthew DiBasilio (CME)

West Point Exo-Skeleton, Cadets Michael Casares, Michael Herrick, Zoar Morales, Jacob Peek, Eli Ketchum (CME)

Developing Environmentally Friendly Pyrotechnics, Cadet James Raab (C&LS)

The Academic Research Council (ARC) will select 3-4 of the nominated projects to be judged for the Clark Award on Projects Day.

Projects are evaluated based on the following criteria:

Impact of the innovation to the soldier

Scope of the Innovation (number of soldiers impacted)

Significance of the innovation (evolutionary vs. revolutionary)

Impact of the innovation to the Army

The Projects Day panel that will select a winner is comprised of experienced soldiers from across the academy, including USCC personnel, Wounded Warrior Transition Team personnel and others.

A special thank you goes out to this year's panel:

SFC Shawn McCracken, USCC

SFC Robert Frame, USCC

SSG Bradley Eissens, Warrior Transition Unit

LTC Kraig Sheetz, Academy Research Committee

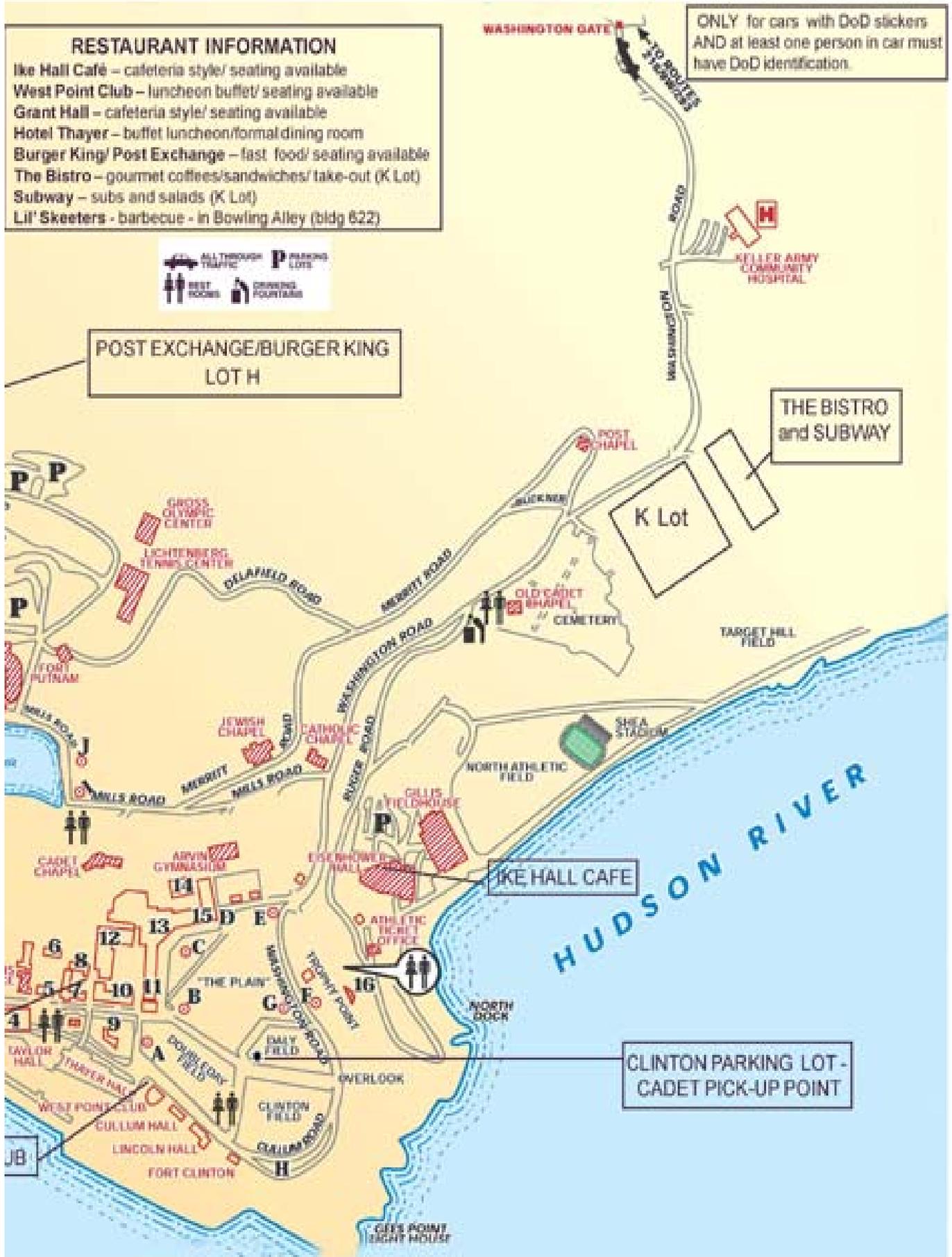
RESTAURANT INFORMATION

- Ike Hall Cafe – cafeteria style/ seating available
- West Point Club – luncheon buffet/ seating available
- Grant Hall – cafeteria style/ seating available
- Hotel Thayer – buffet luncheon/formal dining room
- Burger King/ Post Exchange – fast food/ seating available
- The Bistro – gourmet coffees/sandwiches/ take-out (K Lot)
- Subway – subs and salads (K Lot)
- Lil' Skeeters - barbecue - in Bowling Alley (bldg 622)

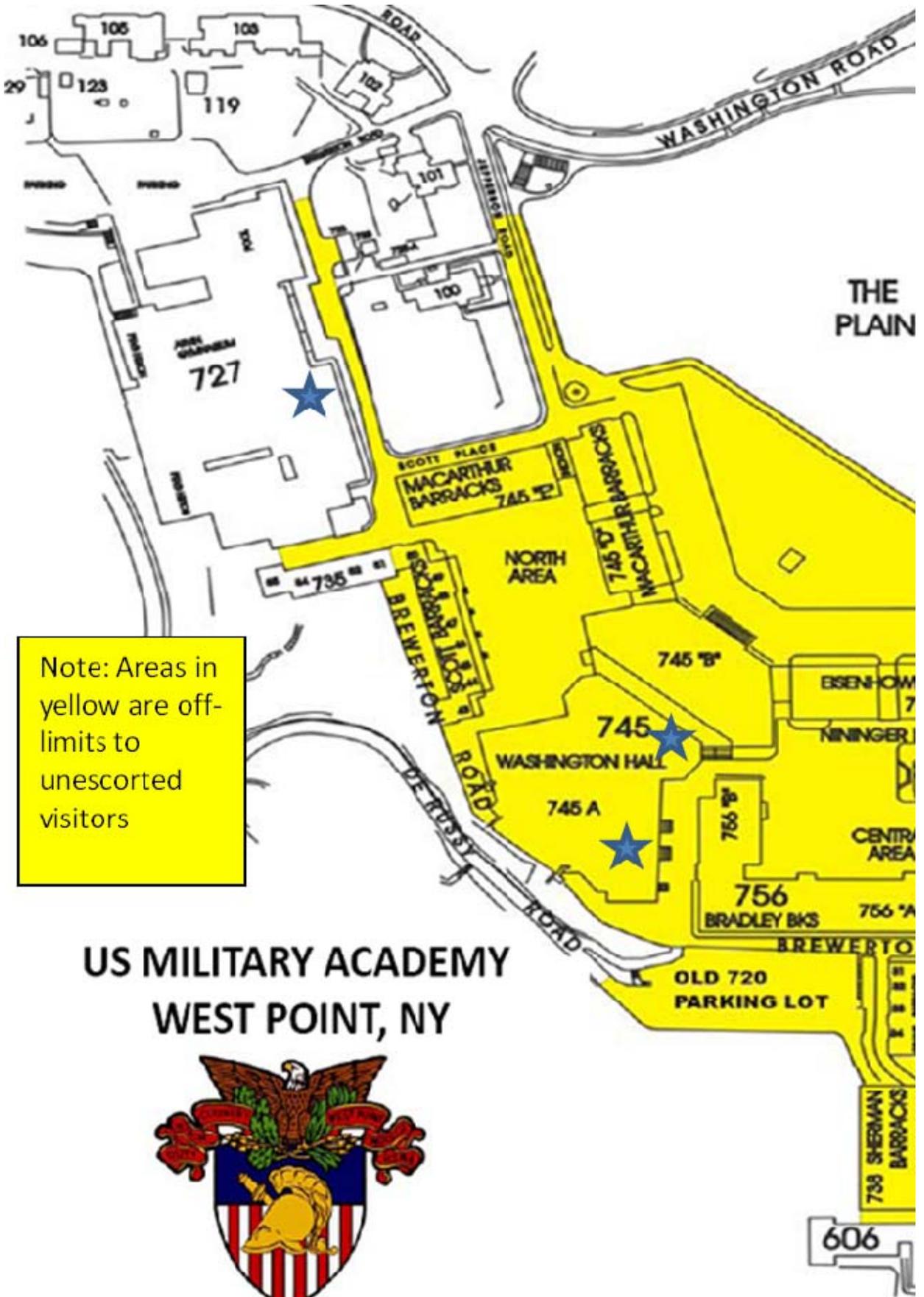


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LOT H

ONLY for cars with DoD stickers
AND at least one person in car must
have DoD identification.



CLINTON PARKING LOT -
CADET PICK-UP POINT

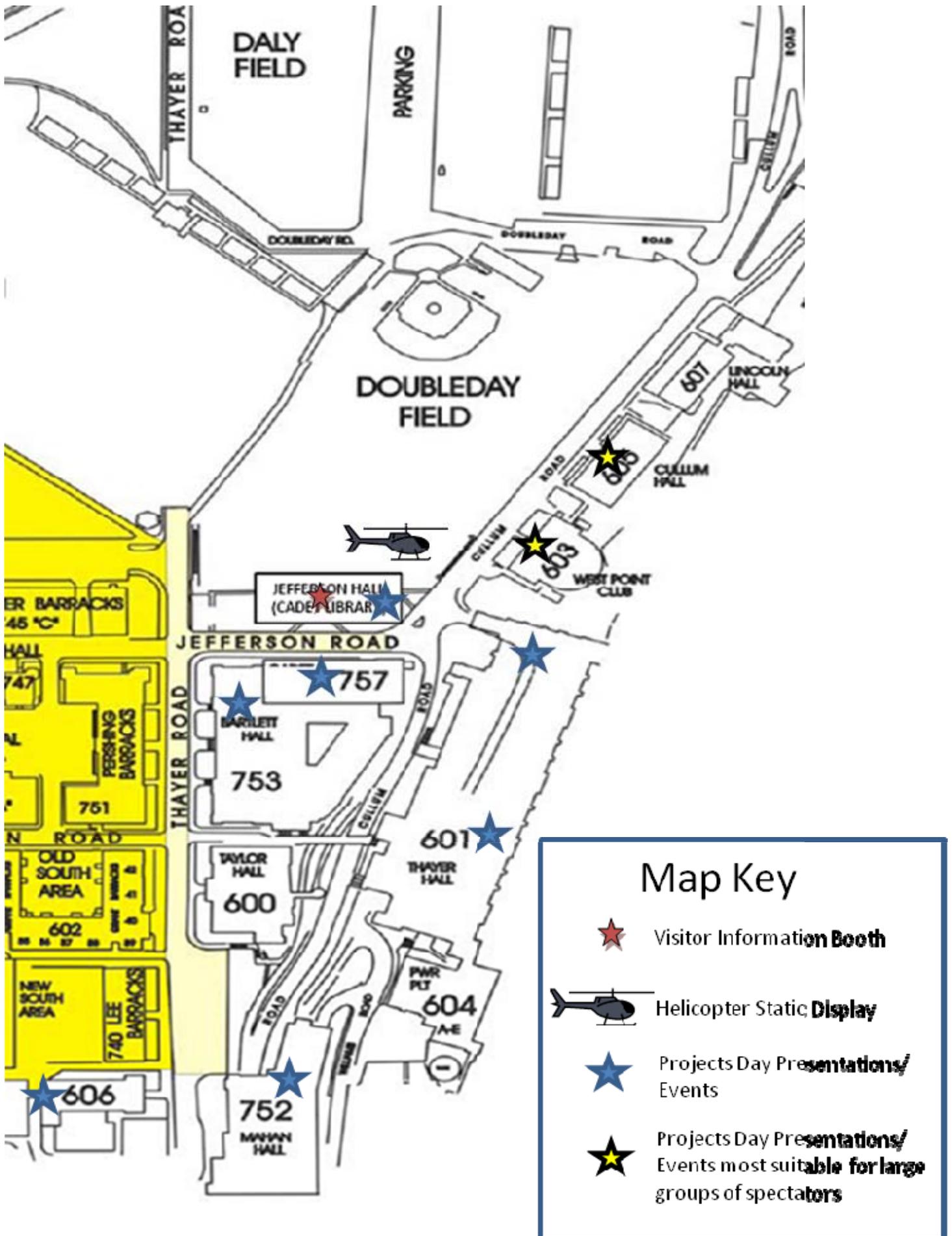


Note: Areas in yellow are off-limits to unescorted visitors

**US MILITARY ACADEMY
WEST POINT, NY**



CENTRAL AREA



Projects Day: Schedule of Events

3 May 2012

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
All Day	TH 258	BS&L	Design and Building a Training Scenario in VBS2: Demonstration of a simulation to train for contingency operations in Southwest Asia.	Hubbs, Guadalupe	Oral/Demonstration
All Day	TH 258	BS&L	Design and Building a Training Scenario in VBS2: Demonstration of a simulation to train for contingency operations in Southwest Asia.	Merrick, Hughes	Oral/Demonstration
All Day	WPCB	EECS	Autonomous Aerial Retrans Platform	Anderson, et al.	Poster session
All Day	WPCB	EECS	Black Knight Satellite	Bennett, et al.	Poster session
All Day	WPCB	EECS	Course Assistant for Visually Impaired Army Rowers	Hubbard, Burrow	Poster session
All Day	WPCB	EECS	Educating Cadets in Cyber Security	Bonner, et al.	Poster session
All Day	WPCB	EECS	Intelligent Load Management System	Farmer, Rulison	Poster session
All Day	WPCB	EECS	PENNANTRACE Optimization	Burgess, et al.	Poster session
All Day	WPCB	EECS	Remote Access Virtual Environment	Apsey, et al.	Poster session
All Day	WPCB	NSC	Research of Insurgent Network Graphs	Eyre, et al.	Poster session
All Day	WPCB	EECS	HoneyBadger	Harris, et al.	Poster session
All Day	WPCB	EECS	NullWall	Lofreddo, et al.	Poster session
All Day	WH 6309: West Point Simulation Center	BS&L	Design and Building a Training Scenario in VBS2: Demonstration of a simulation to train for contingency operations in Southwest Asia.	Hubbs, Guadalupe	Oral/Demonstration
All Day	WH 6309: West Point Simulation Center	DMI	The West Point Simulation Center	WPSC Director and Simulation Center Man- ager	Demonstration on Simulation Center capabilities
All Day	WH 6309: West Point Simulation Center	BS&L	Design and Building a Training Scenario in VBS2: Demonstration of a simulation to train for contingency operations in Southwest Asia.	Merrick, Hughes	Oral/Demonstration
0730	TH 144	DEP	Cadet Short Films	Brooks, et al.	Film Screenings
0730- 0800	MH 223	CME	Ultra High Performance Concrete for the Nuclear Power Industry	Briseno, et al.	Oral Presentation
0730- 1200	CPDE - Arvin	DPE	Classification of foot arch type and function	Bond, et al.	
0730- 1200	CPDE - Arvin	DPE	Traumatic Brain Injury	Harleman, et al.	
0730- 1200	CPDE - Arvin	DPE	Workplace Ergonomics	Caitlin Adamowicz, et al.	
0730- 1200	CPDE - Arvin	DPE	Gait Transition	Doucette, et al.	
0730- 1200	CPDE - Arvin	DPE	Gait symmetry and neuromuscular fatigue	Keith, et al.	

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
0730-1200	CPDE – Arvin	DPE	Heart rate variability	Larsen	Oral defense
0730-1200	CPDE – Arvin	DPE	Upper-body work capacity assessed by bench press and push-ups	Purdy	Oral defense
0800	WH 4303	DFL	Democracy and/or Security: Re-balancing US Aid to Egypt in the Wake of the Revolution	Mahoney, Scott	
0800	WH 4304	DFL	The Middle Kingdom Reemerges: China's Response to the United States' "Back to Asia" Policy Agenda	Anchondo, et al.	
0800	WH 4307	DFL	Extremist Groups in Uzbekistan and Their Impact on US Policy Toward Uzbekistan	Meybaum, et al.	
0800	LAW CONF	Law	Private Military and Security Contractors (PMSCs) on the Battlefield and the Rule of Law	Baker	Honors Thesis Defense
0800	LAW LIBRARY	Law	Due Process and the Army Physical Disability Evaluation System and Integrated Disability Evaluation System	Hrnciar	Honors Thesis Defense
0800, 1500	WPCB, River courts (DEMO)	EECS	Joint Cooperative Unmanned Systems Initiative	Fernandes, et al.	Poster session
0800	LH100	SOSH	Financial Statement Analyses: Defense, Airline, & Internet Industries	Various (3 cadet groups)	Oral Presentation
0800-0900	MH B5	CME	PEO Soldier—Flash Flame Protection	Cooper, Mendoza Rivera	Poster Session
0800-0900	MH 205	CME	Modified Hesco Barrier	Fridley, et al.	Oral Presentation
0800-0900	WH Benavidez Room	DSS	The Bloods of Newburgh & Al Qaeda of Iraq: Insurgencies in the homeland, and gangs in the warzone?	Grida	Thesis Presentation
0800-0930	LH 122	SOSH	Words and War: Political Persuasion in Thucydides' Peloponnesian War	Lowe	
0800-0930	LHB 101A	SOSH	Patches as Signals: Evidence from Military Performance Evaluations at USMA	Balough	
0800-0930	LHB 201	SOSH	Strategic Demographics: Why and How Population Dynamics Will Inevitably Constrain China's Foreign Policy Choices	Koenen	
0800-0930	LHB 202	SOSH	Unintended Consequences: Impact of American Aid on Egyptian Political Development	Schuck	
0800-0930	LHB 203	SOSH	Return of the Visible Hand: Assessing the Impact of Emerging-Market Multinationals in Least Developed Countries	Pigg	
0800-0950	BHN 1st Floor	PANE	Modeling and simulations using deterministic and stochastic Monte Carlo computer codes	Burton, et al.	Poster Session
0800-0950	BHN 1st Floor	PANE	Army Net Zero Energy solution proposal for Ft. Detrick	Alviso, et al.	Poster Session
0800-0950	BHN 1st Floor	PANE	Analysis of open and closed fuel cycle models in the United States using VISION modeling software.	Murray	Poster Session
0800-0950	BHN 1st Floor	PANE	Characterization of the DTRA Integrated Stand-off Detection System (ISIS)	Hoff, et al.	Poster Session

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
0800-0950	BHN 1st Floor	PANE	High sensitivity SNM forensics via correlated photo-induced signatures	Bruff, et al.	Poster Session
0800-0950	BHN 1st Floor	PANE	Characterization and modeling of nuclear detection capabilities	Gryfinski, et al.	Poster Session
0800-0950	BHN 1st Floor	PANE	Army Net Zero Energy solution proposal for West Point.	Cruickshank, et al.	Poster Session
0800-0950	BHN 1st Floor	PANE	Army Net Zero Energy solution proposal for Ft. Hunter-Liggett	East, et al.	Poster Session
0800-0950	BHN 1st Floor	PANE	Army Net Zero Energy solution proposal for Ft. Bliss.	Goodall, et al.	Poster Session
0800-0950	BHN 1st Floor	PANE	Army Net Zero Energy solution proposal for Ft. Carson.	Martell, et al.	Poster Session
0800-1200	WPCB	CME	Black Knight I Satellite	Pollacia, Zhou	Oral Presentation
0800-1530	Cullum Hall	DEP	Creative Arts Project: Display of Cadet and Veteran Art		Poster Session
0810-0840	MH 223	CME	West Point Community Center Deep Energy Retrofit	Everett, et al.	Oral Presentation
0830	TH 160	HIST	Logistics in the Early Crusades	Koszalka	Senior Thesis Defense
0830	TH 158	HIST	What Came With Time: An Analysis of the Antebellum Southern Industrial Movement.	Hansen	Oral Presentation
0830-1130	MH 415	CME	Boeing Cockpit Design	Arnett, et al.	Oral Presentation
0840-1155	BLDG 609 2nd FL: Studio Art Forum	DEP	Rape at the Phallogocentric Performing Theater	McCarthy	Poster Session
0840-1155	LHB 200	DEP	Imprisonment and American Identity	Stepleton, Vaughn	Poster Session
0850-0920	MH 223	CME	American Institute of Steel Construction-Steel Bridge Competition	Crimmins, et al.	Oral Presentation
0900	WH 4304	DFL	The Language of Tahrir Square: Mass Protests and Social Media in the Egyptian Revolution	Brady, et al.	
0900	WH 4304	DFL	Enhancing U.S.-Sino Trust Through Cooperative Engagement	Bjorkman, et al.	
0900	WH 5305	DFL	US Foreign Policy in Tunisia: Beyond the Jasmine Revolution	Fields, et al.	
0900	WH 4003-Red Reeder Room	DFL	Impacts of National Law: US/German Comparison of Current and Future Issues Post-OEF – Pre-Deployment (National Law, Strategic Corporal, Cultural Training, Women in Combat, Public Perceptions, Family Readiness)	Maxwell, et al.	
0900	WH 4306	DFL	Brazilian Energy Policy and US-Brazil-China Relations	Finnerty, et al.	
0900	WH 4307	DFL	Splitting the Orange: Seeking a Win-Win Situation Over Missile Defense with Russia	Kerr, et al.	
0900	WH 5006	DFL	“ETA y el gobierno español: “ETA and the Spanish Governemnt: Lessons for the US?”)	Aubuchon, et al.	
0900	TH 158	HIST	"Ellen McCormack for President: Catalyst for Pro-life Grassroots Political Action"	Sears	Oral Presentation
0900	TH 127	HIST	"The Beautiful Cockroach: How Hutu Power Normalized Violence Against Tutsi Women During the 1994 Rwandan Genocide	Gruenbaum	Senior Thesis Defense

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
0900	LAW LIBRARY	Law	Bullets. Valor. Honor. Speech. The Stolen Valor Act of 2005	Bellavia	Honors Thesis Defense
0900	LAW CONF	Law	The Lawfulness of Interactions Between the CIA and the NYPD	Carpenter	Honors Thesis Defense
0900-0930	TH277	BS&L	Metrics of Soldier Fitness at West Point	Ryan	Oral Presentation
0900-1000	MH Arnold	CME	SAE Mini-Baja	Bettencourt, et al.	Oral Presentation
0900-1000	MH B5	CME	Design Build Fly Competition	Borchik, et al.	Oral Presentation
0900-1000	MH 205	CME	Deployable Fighting Position	McFeaters, et al.	Oral Presentation
0900-1100	BHN-224	C&LS	Find it before it goes boom!	Hunter, et al.	
0900-1100	BHN-326	C&LS	Developing an affordable and reliable radiation detector	McDuffie	
0900-1100	BHN-218	C&LS	Sources of bis-phenol A human exposure at USMA	Zhang	
0900-1100	BHN-218	C&LS	Bioinspired hierarchical polymeric composite for energy absorption	Koffman, et al.	
0900-1100	BHN-216	C&LS	Microbial fuel cells	Heckmann, et al.	
0900-1100	BHN-216	C&LS	Electrochemical detection of munitions constituents	Kovacevic, et al.	
0900-1100	BHN-216	C&LS	Characterization of automated packed bed absorber system	Norris	
0900-1100	BHN-216	C&LS	Phase transitions and crystal structure in chocolate	Ruiz	
0900-1100	BHN-216	C&LS	Waste-to-energy gasification	Benarick, Fitzgerald	
0900-1100	BHN-308	C&LS	Release of dipicolinic acid from anthrax spores by SCFAs	Swartz, Hunkley	
0900-1100	BHN-218	C&LS	Kinetic Isotope Effects	Cassidy	
0900-1100	BHN-308	C&LS	Physical and Chemical Analysis of Demilitarized Magnesium: Can it be reused?	Lowell, Raab	
0900-1100	BHN-318	C&LS	Tobacco Prevalence at West Point	Kostich, Whitaker	
0900-1100	BHN-304/313	C&LS	Growing mammalian cell culture	Buck, Junta	
0900-1100	BHN-304/313	C&LS	Engineering a bacteria-based cholera detection and reporting system	Lindelfeld	
0900-1100	BHN-304/313	C&LS	Culture of human cells for experiments in heterotopic ossification	Martinez	
0900-1100	BHN-304/313	C&LS	Design and production of a hand-held, field-ready, medical diagnostics-on-demand device	Wallace	
0900-1100	BHN-304/313	C&LS	Altitude stress in military operations: a case study	Durso, Leonard	
0900-1100	BHN-304/313	C&LS	iGem-cholera sensing through genetic engineering of E. Coli	Johnson	
0900-1100	BHN-308	C&LS	Malaria Cultivation	Long, et al.	
0900-1100	BHN-218	C&LS	Thio-analogs of adenosine and their optical activity	Hanna	
0900-1100	BHN-308	C&LS	Bacteria identification and optimization of the biolig system	Gallardo	

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
0900-1100	BHN-308	C&LS	Early Evolution of the 1918 Pandemic Influenza Virus as Detected in US Army Cadets at West Point, New York	Burroughs	
0900-1100	BHN-308	C&LS	Malaria growth and inhibition	Stein, et al.	
0900-1100		C&LS	Using viruses to create nanoelectrodes for batteries	Dillard	
0900-1100	BHN-318	C&LS	Motor unit activation and force generation in skeletal muscle	Lynch	
0900-1100	BHN-318	C&LS	Sensory function and muscle fatigue	Pittman	
0900-1100	BHN-318	C&LS	Impact of level of neural activation on rhythm and variation of gait pattern generation.	Schuenemeyer	
0900-1100	BHN-316	C&LS	Infectious Diseases in East Africa	Parascandola	
0900-1100		C&LS	AIDS, HIV, and Malaria Research in Kenya	Stein, Pittman	Oral Presentation
0900-1100	BHN-218	C&LS	DFT Design of RNA Biosensors	Kelsey	
0900-1100	BHN-215	C&LS	Developing Environmentally Friendly Pyrotechnics	Raab	Oral Presentation
0900-1100	BHN-222	C&LS	Chemical remediation of RDX	Marenco	
0900-1100	BHN-222	C&LS	Biodegradation of RDX	Horvat	
0900-1100	BHN-007	C&LS	SERS of Saxitoxins	Jones, Johnson	
0900-1100	BHN-007	C&LS	HSI study of biological systems	Lee, Sloan	
0900-1100	BHN-007	C&LS	HSI analysis for visual and near-IR characteristics of camouflage patterns/materials	Michael	
0900-1130	WH 5300	GENE	Bridging Theory and Practice: A Mixed Methods Approach to Explaining Separatism in South Ossetia	Klevenskiy	Poster Session
0900-1130	WH 5300	GENE	Testing removal efficiency in locally constructed bio-sand filters	Johnson	Poster Session
0900-1130	WH 5300	GENE	Designing an Environmentally Mindful West Point Teaching Garden	Potts	Poster Session
0900-1130	WH 5300	GENE	Assessing the Impact of USMAPS Construction on the Health of Sinclair Brook	Redding	Poster Session
0900-1130	WH 5300	GENE	Bringing Water to Yonkers: the Collection and Utilization of Rainwater for Urban Garden Irrigation	Van Sickle	Poster Session
0900-1130	WH 5300	GENE	Race Relations, and the Impact of Tourism in New Orleans Tradition Mardi Gras	McGoffin	Poster Session
0900-1130	WH 5300	GENE	The Leelanau Grower: Polarized Perspectives on the Tart Cherry Marketing Order	Steimel	Poster Session
0900-1130	WH 5300	GENE	Post fire vegetative re-growth assessment with satellite imagery.	Summerlin	Poster Session
0900-1130	WH 5300	GENE	Light Detection and Ranging (LiDAR) and Forest Penetration	Plapp	Poster Session

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
0900-1130	WH 5300	GENE	Rainwater Harvesting on FOBs	Binker, et al.	Poster Session
0900-1130	WH 5300	GENE	Alternative Disinfectant for the Reverse Osmosis Water Purification Unit	Bailey, et al.	Poster Session
0900-1130	WH 5300	GENE	Recycling Plastic Water Bottles on FOBs	Jake Darsey, et al.	Poster Session
0900-1130	WH 5300	GENE	NBC Water Treatment System for the Individual Soldier	Matthew Burke, et al.	Poster Session
0930-1030	WH Benavidez Room	DSS	A Perfect Combination?: An Inter-Disciplinary Analysis of West Point Officer Production	Smith	Oral Presentation
0930	TH 158	HIST	The Normandy Staff Ride	Prial	Oral Presentation
0930-1000	MH 223	CME	American Society of Civil Engineers-Concrete Canoe Competition	Boyer, et al.	Oral Presentation
0940-1000	TH 265	BS&L	Hearing Loss and Soldier Performance in Combat	Bonewitz, Ryan	Oral Presentation
1000-1600	TH 366 & TH 368	DEP	EP395 Student Presentations	Wakeman, et al.	
1005-1025	TH 265	BS&L	Assessing the effects of chronic low frequency on speech intelligibility in bone conduction headsets	Borja, Hughes	Oral Presentation
1015-1030	TH 265	BS&L	Correlating Sleep Quality with Cognitive Performance	Merrick & Keeting	Oral Presentation
1030-1050	TH 265	BS&L	Usability Study of U.S. Army Candidate Situation Awareness Tool for Simulation Training	Guadalupe, et al.	Oral Presentation
1055 - 1115	TH 265	BS&L	Transfer of Situation Awareness Training to a simulated combat engagement	Deeter, Hubbs	Oral Presentation
1000	TH 352	BS&L	Gender Relations at Saint Cyr	Stuhlmiller	Poster Presentation
1000	TH 144	DEP	Academy Idol	Finalists	Dramatic Performance
1000	WH 4305	DFL	The Voice of Hezbollah: Hassan Nasrallah and the Arab Spring	Hughes, Sepp	
1000	WH 5306	DFL	AFRICOM: Finding a new home?	Kohne, et al.	
1000	WH 4307	DFL	Relações Brasil-Estados Unidos: o caminho a seguir. (Brazil-United States Relations: The Path to Follow)	Fletcher, et al.	
1000	WH 5007	DFL	“Estabilidad política en Guatemala: Indicaciones para el futuro” (“Political Stability in Guatemala: Prospects for the Future”)	Arent, et al.	
1000	TH 160	HIST	"Ellen McCormack for President: Catalyst Sears for Pro-life Grassroots Political Action"		Senior Thesis Defense
1000	TH 158	HIST	"Humming a Different Tune: Propaganda through Music in the 1950s and the Disconnect between American Youth and Policymakers"	Moesta	Oral Presentation
1000	TH 127	HIST	Ethnic Propaganda in Sudan: The Spark of Ethnic Cleansing"	Zeller	Senior Thesis Defense
1000	LAW CONF	Law	The Fight to End Domestic Human Trafficking: Problems and Solutions	Cranston	Honors Thesis Defense

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
1000-1045	TH 277	BS&L	Positivity and performance: The effects of positive attitude on academic, military, and physical performance	Cale	Project and Poster Presentations
1000-1100	MH B5	CME	Soldier Design Competition - Gunshot Detection	Di Basilio, et al.	Oral Presentation
1000-1100	MH 205	CME	Biomechanical Energy Harvester	Broker, et al.	Oral Presentation
1000-1130	TH 286 Hallway	BS&L	Marketing Strategies for NetZero Initiatives	Various (5 cadet groups)	Oral Presentation
1000-1130	LHB 201	SOSH	The Conditions Necessary to Found a Modern Republic	Pool	
1000-1130	LHB 202	SOSH	The Arab Spring: The Sociopolitical Influence of Non-Governmental Organizations in Egypt	Constantino	
1000-1130	LH 100	SOSH	The Calculus of Peace: Conditions for Future Bilateral Arab-Israeli Peace Agreements	Holcomb	
1000-1130	LH 122	SOSH	Managing Chaos: Factors that Facilitate a Successful Response to Coordinated Terrorist Attacks in Multiple Locations of an Urban Environment	Hall	
1000-1130	LHB 101A	SOSH	The Effect of China's One Child Policy on Provincial Rice Production	Boone	
1000-1130	LHB 101B	SOSH	Search for Legitimacy: Traditional Chechen Islam and Ramzan Kadyrov's Strategy for Survival	Ables	
1000-1150	BHN 1st Floor	PANE	Nuclear forensics with short-lived fission products	Golden, et al.	Poster Session
1000-1150	BHN 1st Floor	PANE	Modeling optical flash from the detonation of an improvised nuclear device	Milvenan, Vo	Poster Session
1000-1150	BHN 1st Floor	PANE	Brigade combat team survivability from a nuclear weapon detonation	Carillo, Jin	Poster Session
1000-1150	BHN 1st Floor	PANE	Radon characterization at West Point	Carberry, et al.	Poster Session
1000-1150	BHN 1st Floor	PANE	Experimental validation of high energy laser (HEL) engagement models	Smith	Poster Session
1000-1150	BHN 1st Floor	PANE	Manned mission to Near-Earth Object (NEO)	Verde, et al.	Poster Session
1000-1150	BHN 1st Floor	PANE	Mars exploration mission	Gordon, et al.	Poster Session
1000-1150	BHN 1st Floor	PANE	Advanced technologies for Earth-NEO-Mars missions	Mallari, et al.	Poster Session
1000-1150	BHN 1st Floor	PANE	Numerical simulation of thermal force and frequency noise in ultrasensitive force detectors	Alviso	Poster Session

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
1000-1150	BHN 1st Floor	PANE	Identifying patterns in the approach to chaos and islands of stability in various population models	Schultz	
1000-1150	BHN 1st Floor	PANE	Cryogenic laser development	Prince	
1000-1200	TH 2 nd Floor	MATH	The Past, Present, and Future of Wireless Security: An Analysis of Wi-Fi Protected Access	Bierbrauer	Poster Session
1000-1200	TH 2 nd Floor	MATH	Seismic Activity Modeling Using Finite Elements	Johnson	Poster Session
1000-1200	TH 2 nd Floor	MATH	Data Analytics In Support of Army Football Defensive Operations	Kastner	Poster Session
1000-1200	TH 2 nd Floor	MATH	The Extended Operator Method	Kim	Poster Session
1000-1200	TH 2 nd Floor	MATH	Retirement Benefit Retention Impact Mode	Lucas	Poster Session
1000-1200	TH 2 nd Floor	MATH	The Value of the Fan	MacDonald	Poster Session
1000-1200	TH 2 nd Floor	MATH	Data Analytics in Support of Army Football Defensive Operations	Maness	Poster Session
1000-1200	TH 2 nd Floor	MATH	Hunter Satisfaction on the West Point Reservation	McCrury	Poster Session
1000-1200	TH 2 nd Floor	MATH	Modeling Cooperation Through the Use of Pursuit and Evasion Teams	Pfohman, Sexauer	Poster Session
1000-1200	TH 2 nd Floor	MATH	The Zodiac Cipher	Poyner	Poster Session
1000-1200	TH 2 nd Floor	MATH	The Long Ball: Analysis of the 50 Home Run Club and Links to Performance Enhancing Drugs	Price	Poster Session
1000-1200	TH 2 nd Floor	MATH	The Long Ball: Going the Distance with Mickey Mantle's Top 10 Homeruns	Bleyl, Watkins	Poster Session
1000-1200	TH 2 nd Floor	MATH	Games and Trust within Networks	Rocha	Poster Session
1000-1200	TH 2 nd Floor	MATH	Counter-Insurgency Combat Modeling	Tamyalew	Poster Session
1000-1200	TH 2 nd Floor	MATH	Quantative Analysis in Hockey	Williams	Poster Session
1000-1200	TH 2 nd Floor	MATH	Optimizing the Scheduling of Scouts for an MLB Team	Davis	Poster Session
1000-1200	TH 2 nd Floor	MATH	Improving Bayesian Statistics with Truncation	Ellis, Robertson	Poster Session
1000-1200	TH 2 nd Floor	MATH	Footpath Extraction in LIDAR	Fernandes	Poster Session

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
1000-1200	TH 2 nd Floor	NSC	A Network science approach to protests and riots	Fong	Poster Session
1000-1200	TH 2 nd Floor	NSC	The role copyright policies on the mash up artist business	Helbling	Poster Session
1000-1200	TH 2 nd Floor	NSC	Effects sex education policies on STDs and pregnancy	Lehman, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	A network strategy to determine placement of water access & treatment facilities	Seikman, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	Drug trafficking networks	Johnson, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	Zombie Botnets	Smith	Poster Session
1000-1200	TH 2 nd Floor	NSC	PIPA and SOPAs effects on file sharing	Hansen	Poster Session
1000-1200	TH 2 nd Floor	NSC	Effects of the military's downsizing on the economy	Edwards, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	Evolution of the OPEC network	Kim, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	(Social) Decision 2012: Personal and Financial Networks at Play in Today's Politics	Snyder	Poster Session
1000-1200	TH 2 nd Floor	NSC	Why the US did not ratify the Kyoto Treaty and the effects on global energy markets	Robertson, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	Disease spread in an SIR Network Model	Poyner, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	Homelessness in urban communities	Gomez, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	Social network analysis of the failed state index	Beebe	Poster Session
1000-1200	TH 2 nd Floor	NSC	Field Ready Solution to COIN using Network Analysis and Principled Negotiation Techniques	Baxter, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	The Kashmir Peace Process: A Strategic US Interest	Hutchison	Poster Session
1000-1200	TH 2 nd Floor	NSC	The Principled Negotiation Model: A Tool for Army Leaders	Demartino, et al.	Poster Session
1000-1200	TH 2 nd Floor	NSC	The Dynamics and Patterns within a New Organization	Fong	Poster Session
1000-1200	TH 2 nd Floor	NSC	Analyzing a Social Networking Website	Nielsen	Poster Session
1000-1200	TH 2 nd Floor	NSC	The Spatial Distribution of Genocide from the Center of Ensuing Chaos	Rios	Poster Session

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
1000-1200	TH 2 nd Floor	MATH	The Bombing Problem- A Review of Damage Functions	Griggs	Poster Session
1000-1200	TH 2 nd Floor	MATH	Determining Blood Flow Parameters in Tumor Regions	Hansen	Poster Session
1000-1200	TH 2 nd Floor	MATH	A Mathematical Analysis of Tuning in Western Music	Helbling	Poster Session
1000-1200	TH 2 nd Floor	MATH	Susceptibility of Zea Mays to Fungal Pathogens	Hooper	Poster Session
1010-1040	MH 223	CME	Bailey Bridge Analysis	Kuchan	Oral Presentation
1030	TH 352	BS&L	What is the Relationship between a winning Football Team and College Admissions?	White	Poster Presentation
1030	WH 4003-Red Reeder Room	DFL	Social Re-Integration: US/German Comparison of Current and Future Issues Post-OEF – Post-Deployment (Social Integration, International Law, Public Perspectives, Family Preparation, Psychological Health)	Joiner, et al.	
1030	TH 158	HIST	American Education, Cultural Diplomacy, and Soft Power: America's Soft Power Opportunity in the Cold War, 1958-1960.	Kirkpatrick	Oral Presentation
1050-1120	MH 223	CME	Engineers Without Borders–Nicaragua Drainage Study	Waggoman	Oral Presentation
1120-1140	TH 265	BS&L	An ergonomic study of injury and injury prevention in the Cadet Mess Hall	Rutherford, Craig-lee	Oral Presentation
1100	WH 4306	DFL	Standing By Bahrain	Volpe, Brunner	
1100	WH 5307	DFL	Building host nation capacity in Africa: The way ahead	Collett, et al.	
1100	WH 4308	DFL	Guia para melhores relações entre oficiais brasileiros e americanos.(Guide for Better Brazilian and American Officer Relations)	Choate IV, et al.	
1100	WH 4308	DFL	Political, Economic and Military Integration in the post-Soviet Space	Mezs, et al.	
1100	WH 5008	DFL	“Retórica política en la literatura latinoamericana del siglo XX” (“Political Rhetoric in 20th-Century Latin American Literature”)	Tieng, et al.	
1100	WH 4307	DFL	US Influence on Counternarcotics Efforts in Central Asia	Thomas, et al.	
1100	TH 158	HIST	"The Beautiful Cockroach: How Hutu Power Normalized Violence Against Tutsi Women During the 1994 Rwandan Genocide and How Sexual Violence Developed as a Result of Sexualized Propaganda and Ethnic Myth"	Gruenbaum	Oral Presentation

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
1100	TH 160	HIST	"Children of the Mist": Mosby's Rangers in the 1864 Shenandoah Valley Campaign	Hopkins	Senior Thesis Defense
1100	TH 127	HIST	"To Hell with Integrity: Understanding Congressional Intervention into Major League Baseball's Drug Testing Policies"	Prial	Senior Thesis Defense
1100	LAW CONF	Law	Self-Defense Paradigm of Article 51 of the U.N. Charter: Protect Principles of Justice?	Smith	Honors Thesis Defense
1100 & 1300	LAW LIBRARY	Law	The Center for the Rule of Law presents the short film: Point to Point: Cadets travel to post-civil war slum West Point Liberia.	Holt, Solmonson	Honors Thesis Defense
1100-1145	TH 277	BS&L	Draw-an-Officer (DANO): Deciphering officer identity and intentions to serve	Fraser	
1100-1200	MH Arnold	CME	Service Academy Challenge – Climbing Device to Scale Walls	Patrick Coe, et al.	Oral Presentation
1100-1200	MH B5	CME	Innovative Stretch Earplug Remover to Improve Manufacturing Efficiency	Larson, et al.	Oral Presentation
1100-1200	MH 205	CME	West Point Exo-Skeleton	Casares, et al.	
1100-1200	WH Benavidez Room	DSS	Learning to Eat Soup with a Spoon: Counterinsurgency Lessons from the Philippines and Malaya	Lopez	Oral Presentation
1130	TH 158	HIST	Ethnic Propaganda in Sudan: The Spark of Ethnic Cleansing"	Zeller	Oral Presentation
1130-1200	MH 223	CME	Smartphone Reconnaissance Application	Scruggs	Oral Presentation
1230-1330	Hallway outside TH272	BS&L	The Effect of the Integrated Naval Officer Training System On Social and Emotional Intelligence	Buck, Jester	Poster Presentation
1230-1330	Hallway outside TH272	BS&L	Exploring the Faces of Leadership: The Effects of Sexual Dimorphism on Perception of Leadership Potential	Ball, et al.	Poster Presentation
1230-1330	Hallway outside TH272	BS&L	Effects of Education on Conciseness of Group Attitudes	Collins, Grosz	Oral Presentation
1230-1330	Hallway outside TH272	BS&L	Effects of physical load and task complexity of cognitive load	Softy	Oral Presentation
1230-1330	TH 272, TH 274	BS&L	Applications in Positive Psychology and Resiliency	Class of 2012 Psychology Program cadets	
1300-1315	TH 265	BS&L	An ergonomic study of injury and injury prevention in the USMA Band	Derrick Bouldin, Michael Bozek & Jeremy Martini	Oral Presentation
1300-1320	TH 265	BS&L	Ability to adapt to sudden temporary hearing threshold shifts in conducting a fire team target hand off	Yuengert, Brunette	Oral Presentation

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1325-1345	TH 265	BS&L	Modeling Cognitive workload to optimized the design of displays in a system designed to detect highly enriched uranium	Boose, Barber	Oral Presentation
1300	WH 4307	DFL	Post-Revolution Egypt and Syria: What It Means for U.S.-Israeli Military Cooperation	Craig, et al.	
1300	WH 4309	DFL	The Impact of DOD Counter-Narcotics Funding in Central Asia	Prieto, et al.	
1300	TH 158	HIST	Public HIST: The Kosciusko's Garden and Flirtation Walk Project.	Flynn	Oral Presentation
1300	TH 160	HIST	"Vectigalia Nervos Esse Rei Publicae: The Role of the Tributum in the Rise and Fall of the Roman Republic."	Waldorf	Senior Thesis Defense
1300	TH 127	HIST	What Came With Time: An Analysis of the Antebellum Southern Industrial Movement	Hansen	Senior Thesis Defense
1300	LAW CONF	Law	Improving the Honor System at West Point	Brown	Honors Thesis Defense
1300-1400	MH 205	CME	REF Challenge – Generator Waste Heat Recovery for Combat Outposts	Baxter, et al.	Oral Presentation
1300-1400	MH Arnold	CME	West Point Bionic Foot	Barnes, et al.	Oral Presentation
1300-1400	MH B5	CME	Adaptive Hearing Protection	Albrecht, Brownlee	
1300-1430	LH 100	SOSH	Fighting to Own the House: Reevaluating Competition in Elections for the U.S. House of Representatives	Amoroso	
1300-1430	LH 122	SOSH	State Conciliation With Terrorist Organizations	Kennedy	
1300-1430	LHB 101A	SOSH	Reducing Motor Vehicle Fatalities Through Minimum Legal Drinking Age Legislation	Pagoulatos	
1300-1430	LHB 101B	SOSH	Identity Crisis: The Development of Political Myth and National Identity in Kyrgyzstan and Uzbekistan	Causbie	
1300-1430	LHB 201	SOSH	The Balance of Principles, Interests, and Power in American Foreign Policy	Lee	
1300-1430	LHB 202	SOSH	The Impact of Political Culture on Islamic Terrorism in East Africa	Dratch	

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
1300-1500	TH 2nd Floor	BS&L	Hook-up Culture at West Point	Perez	Poster Session
1300-1500	TH 2nd Floor	BS&L	African-American Identities at USMA	White	Poster Session
1300-1500	TH 2nd Floor	BS&L	The Columbian Military: Post-Modern?	Stuhlmiller	Poster Session
1300-1500	TH 2nd Floor	BS&L	Army Romance: Dual Military Couples	Abernathy	Poster Session
1300-1500	TH 2nd Floor	BS&L	Invisible Children: Cadet Mothers at USMA	Lehman	Poster Session
1300-1500	TH 2nd Floor	BS&L	Stereotypes of Women at West Point	Minney	Poster Session
1300-1500	TH 2nd Floor	BS&L	The Barriers to Transgendered Service	Espinoza-Levy	Poster Session
1300-1500	TH 2nd Floor	BS&L	Nuclear Weapons and Military Acceptance by Society	Clark	Poster Session
1330	TH 158	HIST	Napoleon in Northern Italy: The Italy Staff Ride	Murphy	Oral Presentation
1400	WH 4308	DFL	Yemen: Engagement, Perspective, and Strategies for Regional Stability	Bassette, et al.	
1400	WH 4310	DFL	The Rogun Dam Project and its Implications for Uzbek-Tajik Relations and Energy Security The Role of the 2014 Winter Olympics In Russia's Foreign Policy Formulation	Kogut, et al.	
1400	TH 158	HIST	The Newburgh Conspiracy Title	Markette	Oral Presentation
1400	TH 160	HIST	An Examination of the Legal Systems of the pre-Murabittun Maghrib	Mitchell	Senior Thesis Defense
1400	TH 127	HIST	Slovenski Obrambni Sistem V Julijskih Alpah: Clastra Alpium Iuliarum and the Strategic Posture of the Roman Empire, 6 CE-400 CE	Marolt	Senior Thesis Defense
1400	LAW LIBRARY	Law	The Great Debate: West Point Speech Team Debate Competition	CDT Members of the Speech Team	Honors Thesis Defense
1400	LAW CONF	Law	Women's Property Rights in Liberia	Holt	Honors Thesis Defense
1400-1530	Cullum Hall	DEP	Cadet and Veteran Performances and Readings		
1400-1500	WH Benavidez Room	DSS	Soldier Load in a Hybrid Environment	Gain	Thesis Defense
1430	TH 158	HIST	"Vectigalia Nervos Esse Rei Publicae: The Role of the Tributum in the Rise and Fall of the Roman Republic."	Waldorf	Oral Presentation

<u>Time</u>	<u>Location</u>	<u>Sponsor</u>	<u>Title</u>	<u>Cadet/Student</u>	<u>Presentation Type</u>
1500	TH 160	HIST	Southern Judgment: Sherman and His Motives for the March to the Sea	Traczyk	Film presentation & discussion
1500	LAW CONF	Law	ENERGY RELATED PROJECT: To Frack or Not To Frack: Hydraulic Fracturing and the Legal Interpretation of Mineral Rights	Carlson	Honors Thesis Defense
1500	LAW LIBRARY	Law	Legal Framework for Defending the U.S. from Nuclear Catastrophic Events: A Jus ad Bellum and Jus in Bello Analysis	Rafferty	Honors Thesis Defense
1500	LH 112	SOSH	Letters from Abbottabad: Bin Ladin Sidelined?	Caudill	Oral Presentation
1500-1630	LH 100	SOSH	Army Retention with Non-Monetary Means: A Case Study of the Singapore Army	Zhang	
1500-1630	LHB 101A	SOSH	The Impact of Combat Deployments on Substance Abuse: Survey Evidence from U.S. Army Personnel	Stenholm	
1500-1630	LHB 101B	SOSH	The Bush Administration in U.S.-Georgia Relations: A Case Study In Neoconservative Foreign Policy?	Post	
1500-1630	LHB 201	SOSH	Failure to Repatriate: The Civil-Military Gap in Veteran Unemployment	Gutierrez	
1500-1630	LHB 203	SOSH	Empty Silos: Eliminating the ICBM from the U.S. Nuclear Force Structure	Pasque	
1600	LAW CONF	Law	Corruption and the Rule of Law in Ukraine's Judicial System	Schwartzman	Honors Thesis Defense
1600	LAW LIBRARY	Law	Land Dispute Resolution Recommendations for Post-Conflict Liberia.	Solmonson	Honors Thesis Defense
1700	LAW CONF	Law	The Use of Race in West Point Admissions: The Legal Implications of Affirmative Action at USMA	Bryant	Honors Thesis Defense

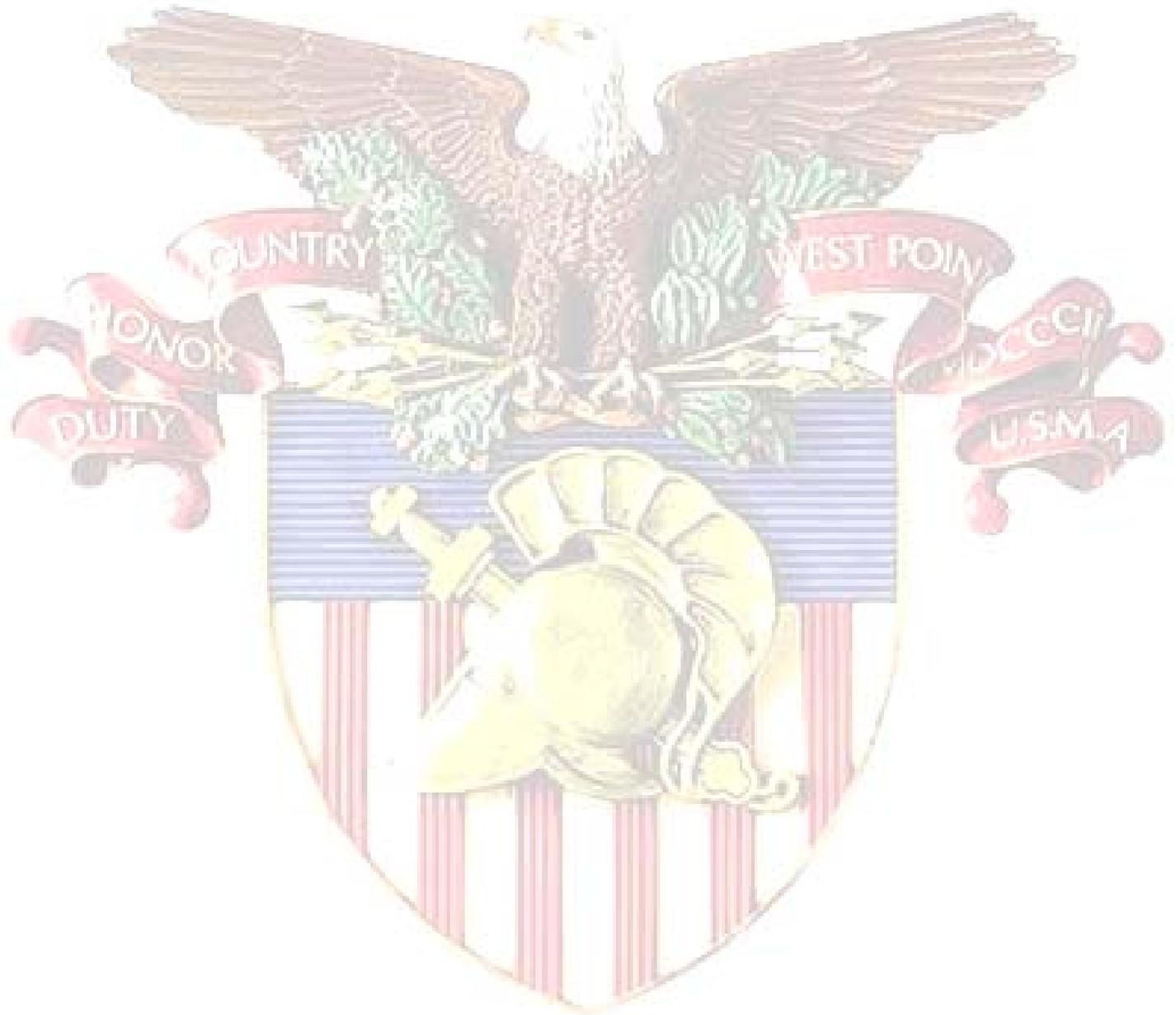
Department of Behavioral Sciences and Leadership

Appreciation and great thanks goes to the BS&L Projects Day Sponsors:

Office of the Secretary of Defense
 Defense Threat Reduction Agency (DTRA)
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 US Army Public Health Command

All Day	TH 258	Design and Building a Training Scenario in VBS2: Demonstration of a simulation to train for contingency operations in Southwest Asia. <i>Trevyn Hubbs & Ilanit Guadalupe</i>
All Day	TH 258	Design and Building a Training Scenario in VBS2: Demonstration of a simulation to train for contingency operations in Southwest Asia. <i>Katie Merrick & Caleb Hughes</i>
All Day	WH 6309: West Point Simulation Center	Design and Building a Training Scenario in VBS2: Demonstration of a simulation to train for contingency operations in Southwest Asia.
All Day	WH 6309: West Point Simulation Center	Design and Building a Training Scenario in VBS2: Demonstration of a simulation to train for contingency operations in Southwest Asia.
0900-0930	TH277	Metrics of Soldier Fitness at West Point <i>Matthew Ryan</i>
0940-1000	TH 265	Hearing Loss and Soldier Performance in Combat <i>Luke Bonewitz & Matthew Ryan</i>
1005-1025	TH 265	Assessing the effects of chronic low frequency on speech intelligibility in bone conduction headsets <i>Ryan Borja & Caleb Hughes</i>
1015-1030	TH 265	Correlating Sleep Quality with Cognitive Performance <i>Katie Merrick & Ketting</i>
1030-1050	TH 265	Usability Study of U.S. Army Candidate Situation Awareness Tool for Simulation Training <i>Ilanit Guadalupe, Justinas Zenkevicius & Christopher Jarrett</i>
1055 - 1115	TH 265	Transfer of Situation Awareness Training to a simulated combat engagement <i>Catherine Deeter & Trevyn Hubbs</i>
1000	TH 352	Gender Relations at Saint Cyr <i>Cadet Rachel Stuhlmiller</i>
1000-1045	TH 277	Positivity and performance: The effects of positive attitude on academic, military, and physical performance <i>Anastasia K. Cale</i>
1000-1130	TH 286 Hallway	Marketing Strategies for NetZero Initiatives <i>Various (5 cadet groups)</i>
1030	TH 352	What is the Relationship between a winning Football Team and College Admissions? <i>Cadet Daniel White</i>
1120- 1140	TH 265	An ergonomic study of injury and injury prevention in the Cadet Mess Hall <i>Akeem Rutherford & John Craig-lee</i>
1100-1145	TH 277	Draw-an-Officer (DANO): Deciphering officer identity and intentions to serve <i>Olivia Fraser</i>
1230-1330	Hallway outside TH272	The Effect of the Integrated Naval Officer Training System On Social and Emotional Intelligence <i>Kelly L. Buck & Daniel S. Jester</i>
1230-1330	Hallway outside TH272	Exploring the Faces of Leadership: The Effects of Sexual Dimorphism on Perception of Leadership Potential <i>Catherine G. Ball, Anastasia K. Cale & Nichole L. Siegrist</i>
1230-1330	Hallway outside TH272	Effects of Education on Conciseness of Group Attitudes <i>Mary K. Collins & Ellyn E. Grosz</i>
1230-1330	Hallway outside TH272	Effects of physical load and task complexity of cognitive load <i>Douglas Adam Softy</i>

1230-1330	TH 272, 274	Applications in Positive Psychology and Resiliency <i>Class of 2012 Psychology Program cadets</i>
1300-1315	TH 265	An ergonomic study of injury and injury prevention in the USMA Band <i>Derrick Bouldin, Michael Bozek & Jeremy Martini</i>
1300-1320	TH 265	Ability to adapt to sudden temporary hearing threshold shifts in conducting a fire team target hand off <i>Laura Yuengert & Colby Brunette</i>
1325-1345	TH 265	Modeling Cognitive workload to optimized the design of displays in a system designed to detect highly enriched uranium <i>Weston Boose & Alex Barber</i>



Department of Chemistry and Life Sciences

Appreciation and great thanks goes to the C&LS Projects Day Sponsors:

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Development & Pilot Plant Branch, at Picatinny Arsenal
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The U.S. Army Corps of Engineers Research and Development Center Environmental Lab. (ERDC-EL)
The Construction Engineering Research Lab (CERL)
Program Executive Office (PEO) Ammunition, Picatinny Arsenal
Walter Reed Army Institute of Research (WRIAR)
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All poster sessions will be held from 0900-1100

- BHN-224 Find it before it goes boom!
CDT Justin Hunter & CDT Seth Harbol
- BHN-326 Developing an affordable and reliable radiation detector
CDT Matthew McDuffie
- BHN-218 Sources of bis-phenol A human exposure at USMA
CDT Bobby Zhang
- BHN-218 Bioinspired hierarchical polymeric composite for energy absorption
CDT Cody Koffman, CDT Rebecca Kratz, & CDT Patrick Singley
- BHN-216 Microbial fuel cells
CDT Ethan Heckmann & CDT Erik Houston
- BHN-216 Electrochemical detection of munitions constituents
CDT Branko Kovacevic & CDT Erik Moore
- BHN-216 Characterization of automated packed bed absorber system
CDT Mike Norris
- BHN-216 Phase transitions and crystal structure in chocolate
CDT Laura Ruiz
- BHN-216 Waste-to-energy gasification
CDT Stan Benarick and CDT Sean Fitzgerald
- BHN-308 Release of dipicolinic acid from anthrax spores by SCFAs
CDT Amanda Swartz & CDT Kiley Hunkley
- BHN-218 Kinetic Isotope Effects
CDT Kelley Cassidy
- BHN-308 Physical and Chemical Analysis of Demilitarized Magnesium: Can it be reused?
CDT Samuel Lowell & CDT James Raab
- BHN-318 Tobacco Prevalence at West Point
CDT Theodore Kostich & CDT Daniel Whitaker
- BHN-304/313 Growing mammalian cell culture
CDT Emily Buck & CDT Lisa Junta
- BHN-304/313 Engineering a bacteria-based cholera detection and reporting system
CDT Jon Lindefeld
- BHN-304/313 Culture of human cells for experiments in heterotopic ossification
CDT Ivan Martinez
- BHN-304/313 Design and production of a hand-held, field-ready, medical diagnostics-on-demand device
CDT Christopher Wallace
- BHN-304/313 Altitude stress in military operations: a case study
CDT Joseph Durso and CDT Kathryn Leonard
- BHN-304/313 iGem-cholera sensing through genetic engineering of E. Coli
CDT Seth Johnson
- BHN-308 Malaria Cultivation
CDT Drew Long, CDT Steven Burroughs & CDT Rutger Gunther
- BHN-218 Thio-analogs of adenosine and their optical activity
CDT Dylan Hanna

- 
- BHN-308** Bacteria identification and optimization of the biolog system
CDT Lizet Gallardo
- BHN-308** Early Evolution of the 1918 Pandemic Influenza Virus as Detected in US Army Cadets at West Point, New York
CDT Steven Burroughs
- BHN-308** Malaria growth and inhibition
CDT Anna Stein, CDT Rutger Gunther and CDT Salvatore Parascandola
Using viruses to create nanoelectrodes for batteries
CDT Joshua Dillard
- BHN-318** Motor unit activation and force generation in skeletal muscle
Thomas Lynch
- BHN-318** Sensory function and muscle fatigue
Luke Pittman
- BHN-318** Impact of level of neural activation on rhythm and variation of gait pattern generation.
Jonathan Schuenemeyer
- BHN-316** Infectious Diseases in East Africa AIDS, HIV, and Malaria Research in Kenya
Anna Stein and Luke Pittman
- BHN-218** DFT Design of RNA Biosensors
CDT Shaun Kelsey
- BHN-215** Developing Environmentally Friendly Pyrotechnics
CDT Raab
- BHN-222** Chemical remediation of RDX
CDT Christopher Marenco
- BHN-222** Biodegradation of RDX
CDT David Horvat
- BHN-007** SERS of Saxitoxins
CDT Chris Jones & CDT Kyle Johnson
- BHN-007** HSI study of biological systems
CDT Jaewon Lee & CDT Christine Sloan
- BHN-007** HSI analysis for visual and near-IR characteristics of camouflage patterns/materials
CDT Vaughn Michael

Department of Civil and Mechanical Engineering

The West Point Center for Innovation and Engineering (CIE), the West Point Center for STEM Education and the Department of Civil and Mechanical Engineering (D/CME) would like to thank each of its partners and affiliates for offering excellent enhancement to cadet educational opportunities!

Air Force Research Laboratory (AFRL)
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American Society of Civil Engineers (ASCE)
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National Defense Education Program (NDEP)
National Science Center (NSC)
Occupations, Inc.
PEO Soldier
Rapid Equipping Force (REF)
SpringActive, Inc.
United States Army Corps of Engineers (USACE)

- 0730-0800 MH 223 Ultra High Performance Concrete for the Nuclear Power Industry
CDT Charles Briseno and CDT David Junta
- 0800-0900 MH B5 PEO Soldier—Flash Flame Protection
CDT Jean-Pierre Cooper, CDT Eduardo Mendoza Rivera
- 0800-0900 MH 205 Modified Hesco Barrier
CDT Brennan Fridley, CDT John Paulson, CDT Joshua Peterson
- 0800-1200 WPCB Black Knight I Satellite
CDT Nicholas Pollacia and CDT Charles Zhou
- 0810-0840 MH 223 West Point Community Center Deep Energy Retrofit
CDT Brett Everett, CDT Morgan Kuchan, CDT Ryan Leets, CDT Mark Owens
- 0830-1130 MH 415 Boeing Cockpit Design
CDT Christopher Arnett, CDT James Bashford, CDT Patrick Carpenter, CDT Alexander Corbins, CDT Anthony Domingos, CDT Patrick Fay, CDT Daniel Hinkson, CDT Sean Leary, CDT Ryan Lee, CDT Scott Lorette, CDT Matthew Riopelle, CDT Karl Tappert
- 0850-0920 MH 223 American Institute of Steel Construction-Steel Bridge Competition
CDT Michael Crimmins, CDT Arthur Lin, CDT Charles Long, CDT Jamie Trombly, CDT John Wetzel
- 0900-1000 MH Arnold SAE Mini-Baja
CDT Russell Bettencourt, CDT Christopher Bingman, CDT Cory Burdick, CDT Joaquin Fernandez, CDT Brendan Fields, CDT Lauren French, CDT Chester Haner, CDT Aaron Koser, CDT Kyle Lindell, CDT Kevin Lumpkins, CDT William Mayne, CDT Ryan Neville
- 0900-1000 MH B5 Design Build Fly Competition
CDT Daniel Borchik, CDT John Carroll, CDT Lawrence Collins, CDT Philip Kocher, CDT Jennifer Parsons, CDT John Scudder
- 0900-1000 MH 205 Deployable Fighting Position
CDT Mark McFeaters, CDT Michael Walls, CDT Andrew Winsick
- 0930-1000 MH 223 American Society of Civil Engineers-Concrete Canoe Competition
CDT Brett Boyer, CDT Amado Gonzalez, CDT Brad McPherson, CDT Beverly Nordin, CDT Tyler Skomp
- 1000-1100 MH B5 Soldier Design Competition - Gunshot Detection
CDT Matthew Di Basilio, CDT Benjamin Poth, CDT Jose Ramirez
- 1000-1100 MH 205 Biomechanical Energy Harvester
CDT Steven Broker, CDT Phillip Ludlow, CDT Andrew Rodriguez, CDT Benjamin Simonson

- 1010-1040 MH 223 Bailey Bridge Analysis
CDT Morgan Kuchan
- 1050-1120 MH 223 Engineers Without Borders– Nicaragua Drainage Study
CDT Brance Waggoman
- 1100-1200 MH Service Academy Challenge – Climbing Device to Scale Walls
Arnold *CDT Patrick Coe, CDT Ryan Freitag, CDT Christopher Knittle, CDT Kevin Lucas, CDT Cameron Martin, CDT Brian Walter*
- 1100-1200 MH B5 Innovative Stretch Earplug Remover to Improve Manufacturing Efficiency
CDT Bret Larson, CDT Jeff-Antoine Pierre-Louis, CDT Jeremiah Watson
- 1100-1200 MH 205 West Point Exo-Skeleton
CDT Michael Casares, CDT Michael Herrick, CDT Eli Ketchum, CDT Brian Louie, CDT Zoar Morales, CDT Jacob Peek
- 1130-1200 MH 223 Smartphone Reconnaissance Application
CDT Kevin Scruggs
- 1300-1400 MH 205 REF Challenge – Generator Waste Heat Recovery for Combat Outposts
CDT Robert Baxter, CDT Luke Grant, CDT Isaac Melnick, CDT Jacob Young
- 1300-1400 MH West Point Bionic Foot
Arnold *CDT Tyler Barnes, CDT Zachary D'Ooge, CDT Anthony Day, CDT Adam Fulling, CDT Joseph Lush, CDT Spencer Wilhelm*
- 1300-1400 MH B5 Adaptive Hearing Protection
CDT Eric Albrecht and CDT Zachary Brownlee



Department of Electrical Engineering and Computer Science

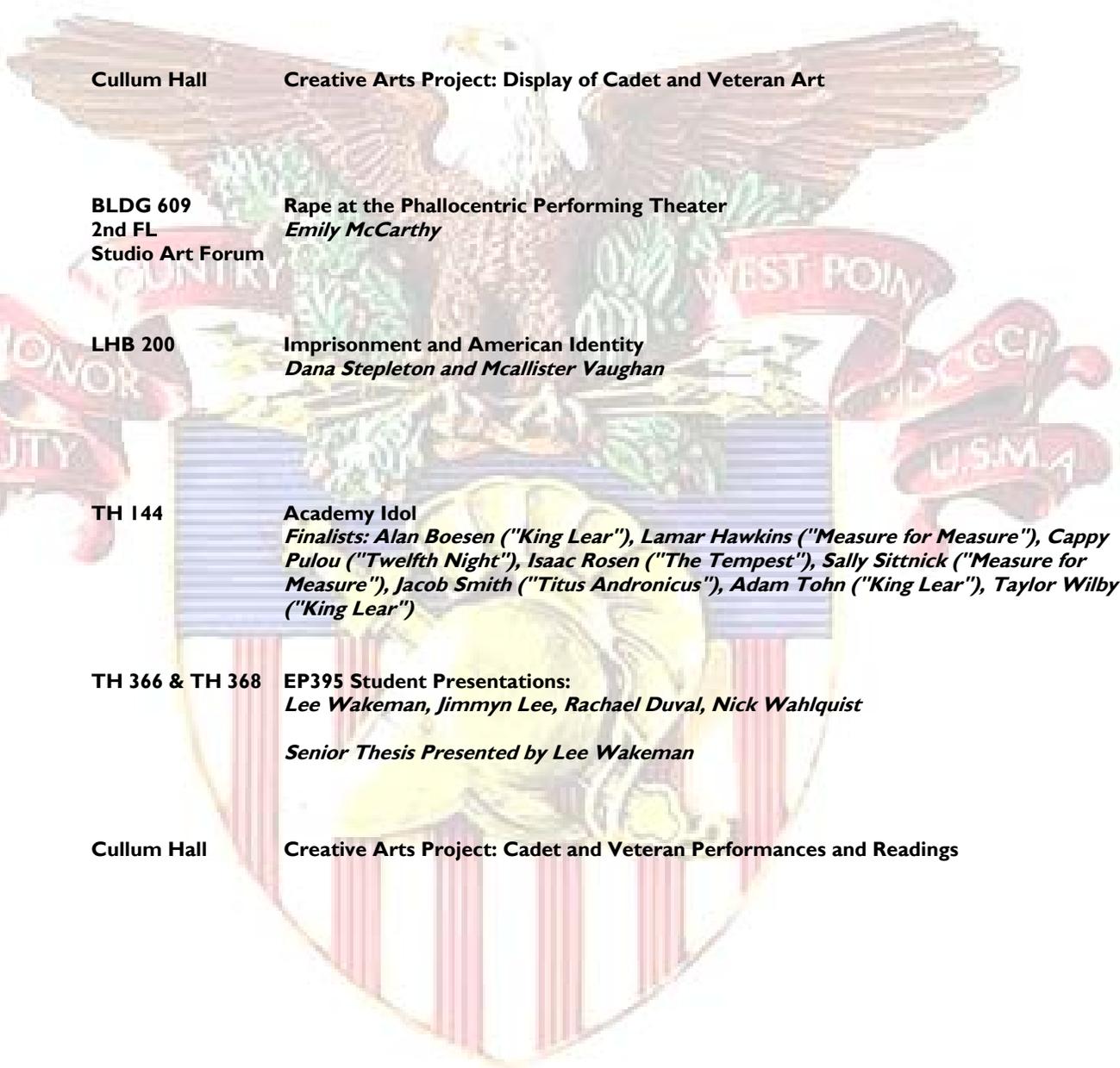
Appreciation and great thanks goes to the EECS Projects Day Sponsors:

**PEO Ground Combat Systems
PEO Ammunition
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Research and Engineering
Office of the Chief Scientist
Grand Idea Studio, Inc.
Feith Systems, Inc.
Network Battle Lab
Defense Threat Reduction Agency**



All Day	WPCB	Autonomous Aerial Retrans Platform <i>CDT Paul Anderson, CDT Logan Hardy, CDT Stanley Blake Harris</i>
All Day	WPCB	Black Knight Satellite <i>Chris Bennett, Kyle Yaxley, Lincoln Stein, Andrew Tindall</i>
All Day	WPCB	Course Assistant for Visually Impaired Army Rowers <i>James Hubbard, Daniel Burrow</i>
All Day	WPCB	Educating Cadets in Cyber Security <i>Christopher Bonner, Delk Richard, Kyle Stammer</i>
All Day	WPCB	Intelligent Load Management System <i>Alexander Farmer, Blake Rulison</i>
All Day	WPCB	PENNANTRACE Optimization <i>Hannah Burgess, Matthew Greene, Scott Mead, Matthew Luehrmann, Max Love</i>
All Day	WPCB	Remote Access Virtual Environment <i>Christopher Apsey, Patrick Shaffer, Alexander Eubanks</i>
All Day	WPCB	HoneyBadger <i>Todd Berry Ann, Alexander Harris, Brad Hitchens</i>
All Day	WPCB	NullWall <i>Peter Lofreddo, Riley McKenna, Daniel Powell</i>
0800, 1500 courts (DEMO)	WPCB, River	Joint Cooperative Unmanned Systems Initiative <i>John Fernandes, Fang Liu, Samuel Lough, Grigoriu Rus, Gregory Hurlock, Antonio Saw, Nicolas Starck-King, Justin Bucher, Christopher Nelson, Patrick Hammond</i>

Department of English and Philosophy



730	TH 144	Cadet Short Films <i>Roman Brooks, Sally Chang, Deanna Clegg, Eileen Deegan, Sutherland Dyke, Kevin Klenk, Daniel Lehman, Naomi Marcelo, Grant Matthews, Scott McClelland, Marshall Moten, Melissa Niehus, Glenn Scott, Stephen Sittnick, Adam Barshun, Victoria Carpenter, Brandi-el Cook, Brett Darden, Kelley Duke, Hannah Faughn, Hunter Herron, Tyler Lamb, Tanya McCorkle, Patrick Monfort, Andrew Morris, Jake Pendleton, Elizabeth Schmitt, Lisa Warner, Emily Waugh</i>
0800-1530	Cullum Hall	Creative Arts Project: Display of Cadet and Veteran Art
0840-1155	BLDG 609 2nd FL Studio Art Forum	Rape at the Phallogentric Performing Theater <i>Emily McCarthy</i>
0840-1155	LHB 200	Imprisonment and American Identity <i>Dana Stepleton and Mcallister Vaughan</i>
1000	TH 144	Academy Idol <i>Finalists: Alan Boesen ("King Lear"), Lamar Hawkins ("Measure for Measure"), Cappy Pulou ("Twelfth Night"), Isaac Rosen ("The Tempest"), Sally Sittnick ("Measure for Measure"), Jacob Smith ("Titus Andronicus"), Adam Tohn ("King Lear"), Taylor Wilby ("King Lear")</i>
1000-1600	TH 366 & TH 368	EP395 Student Presentations: <i>Lee Wakeman, Jimmyn Lee, Rachael Duval, Nick Wahlquist</i> <i>Senior Thesis Presented by Lee Wakeman</i>
1400-1530	Cullum Hall	Creative Arts Project: Cadet and Veteran Performances and Readings

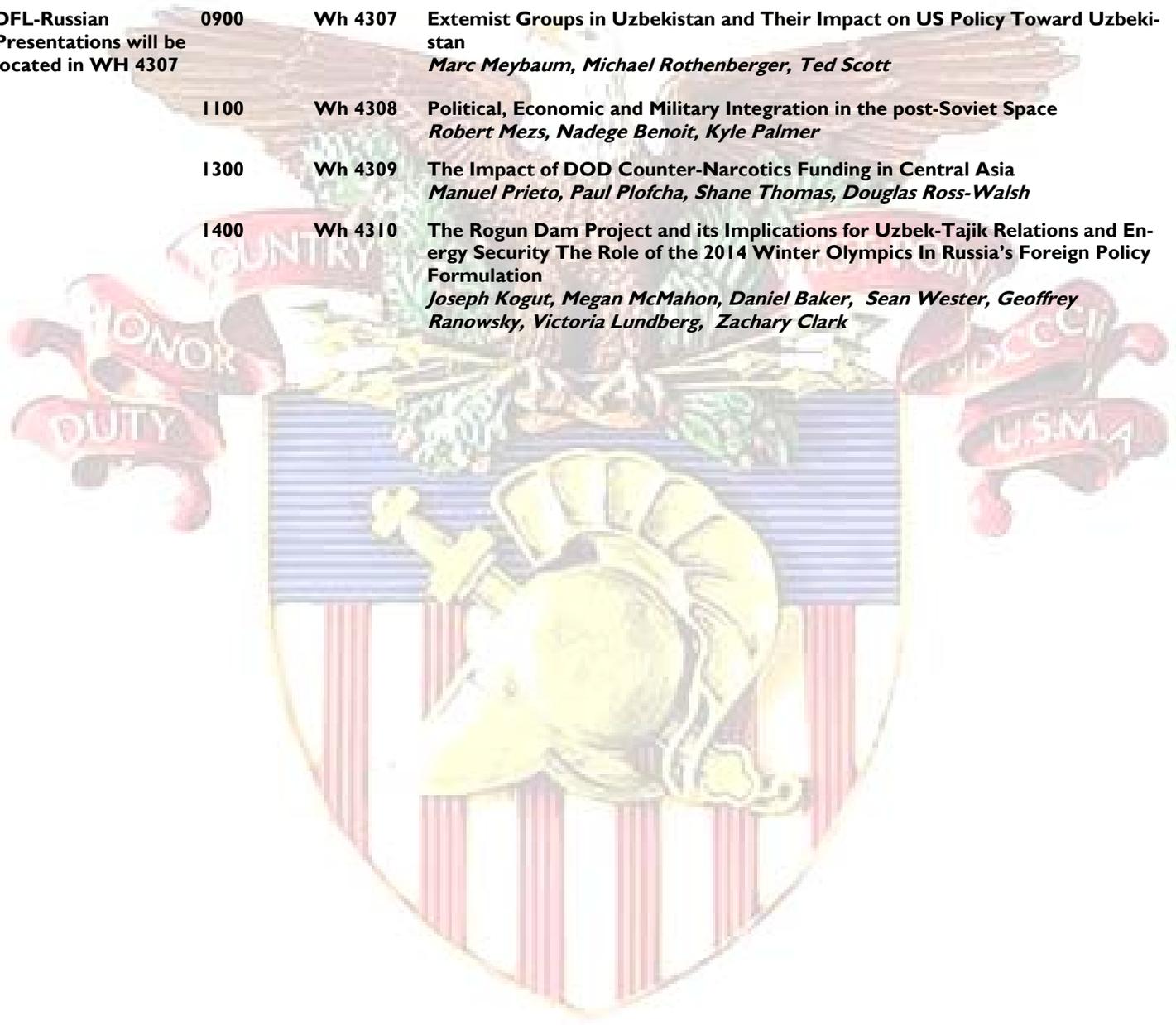
Department of Foreign Languages

Appreciation and great thanks goes to the DFL Projects Day Sponsors:

**U.S. Missile Defense Agency
Belfer Center for Science and International Affairs
Defense Threat Reduction Agency
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DFL-Arabic I Presentations will be located in WH 4303	0800	Democracy and/or Security: Re-balancing US Aid to Egypt in the Wake of the Revolution <i>Bredan Mahoney, Robert Scott</i>
	0900	The Language of Tahrir Square: Mass Protests and Social Media in the Egyptian Revolution <i>Donna Brady, Abigail Constantino, Sean Robinson</i>
	1000	The Voice of Hezbollah: Hassan Nasrallah and the Arab Spring <i>Elloitt Hughes, Suley Sepp</i>
	1100	Standing By Bahrain <i>Rachael Volpe, Christiana Brunner</i>
	1300	Post-Revolution Egypt and Syria: What It Means for U.S.-Israeli Military Cooperation <i>Sam Craig, Ian Mathies, Justin Schumacher</i>
DFL-Chinese I Presentations will be located in WH 4304	1400	Yemen: Engagement, Perspective, and Strategies for Regional Stability <i>Joel Bassette, Patrick O'Shaughnessy, Howard Richardson</i>
	0800	The Middle Kingdom Reemerges: China's Response to the United States' "Back to Asia" Policy Agenda <i>Louisa Anchondo, John Klaben, Spencer Donaldson</i>
	0900	Enhancing U.S.-Sino Trust Through Cooperative Engagement <i>Samuel Bjorkman, Rumeal Lewis, Sean Christman</i>
DFL-French I Presentations will be located in WH 4305	0900	US Foreign Policy in Tunisia: Beyond the Jasmine Revolution <i>Jessica Fields, Trevor Mitchell, Jon Theroux, John Walsh</i>
	1000	AFRICOM: Finding a new home? <i>Michael Kohne, Armando Peralta, Casey Roberts</i>
	1100	Building host nation capacity in Africa: The way ahead <i>Henry Collett, Christopher Collins, Tyler Hash, Anderson Kim</i>
DFL-German I Presentations will be located in WH 4003-Red Reeder Room	0900	Impacts of National Law: US/German Comparison of Current and Future Issues Post-OEF – Pre-Deployment (National Law, Strategic Corporal, Cultural Training, Women in Combat, Public Perceptions, Family Readiness) <i>Harrison Maxwell, Brendan Podszus, Gina Knapp, Madelyne Corcino, Jordan Sorrenti, Chloé Canavan</i>
	1030	Social Re-Integration: US/German Comparison of Current and Future Issues Post-OEF – Post-Deployment (Social Integration, International Law, Public Perspectives, Family Preparation, Psychological Health) <i>Matthew Joiner, Stephen Irwin, Kyle Schlauch, Lauren Ulmer, Robert Boeckmann</i>
DFL-Portuguese I Presentations will be located in WH 4306	0900	Brazilian Energy Policy and US-Brazil-China Relations <i>Patrick Finnerty, James Phillips, Jian-Liang Jiang, Orion Ross</i>
	1000	Relações Brasil-Estados Unidos: o caminho a seguir. (Brazil-United States Relations: The Path to Follow) <i>George Fletcher, Barbara Lodwick, Ashleigh Sheets, David Weaver, Daniel Tucker</i>
	1100	Guia para melhores relações entre oficiais brasileiros e americanos.(Guide for Better Brazilian and American Officer Relations) <i>William Choate IV, Crystal Garcia, Makeba Jeffcoat, Pablo Rivera</i>

DFL-Spanish Presentations will be located in WH 5006	0900	WH 5006	“ETA y el gobierno español: “ETA and the Spanish Governemnt: Lessons for the US?”) <i>Alexis Aubuchon, Dennis Cho, Heather Purkey</i>
	1000	WH 5007	“Estabilidad política en Guatemala: Indicaciones para el futuro” (“Political Stability in Guatemala: Prospects for the Future”) <i>Mathew Arent, Mark Conard, Mathew Wesche</i>
	1100	WH 5008	“Retórica política en la literatura latinoamericana del siglo XX” (“Political Rhetoric in 20th-Century Latin American Literature”) <i>Timothy Tieng, Francisco Barrera, Ashley Anthony</i>
DFL-Russian Presentations will be located in WH 4307	0900	Wh 4307	Extremist Groups in Uzbekistan and Their Impact on US Policy Toward Uzbekistan <i>Marc Meybaum, Michael Rothenberger, Ted Scott</i>
	1100	Wh 4308	Political, Economic and Military Integration in the post-Soviet Space <i>Robert Mezs, Nadege Benoit, Kyle Palmer</i>
	1300	Wh 4309	The Impact of DOD Counter-Narcotics Funding in Central Asia <i>Manuel Prieto, Paul Plofcha, Shane Thomas, Douglas Ross-Walsh</i>
	1400	Wh 4310	The Rogun Dam Project and its Implications for Uzbek-Tajik Relations and Energy Security The Role of the 2014 Winter Olympics In Russia’s Foreign Policy Formulation <i>Joseph Kogut, Megan McMahon, Daniel Baker, Sean Wester, Geoffrey Ranowsky, Victoria Lundberg, Zachary Clark</i>



Department of Geography and Environmental Engineering

Appreciation and great thanks goes to the GENE Projects Day Sponsors:

United States Geospatial Intelligence Foundation
Center for Military Operations
Intelligence Community Engagement, Army G-2

All poster sessions will be held in WH 5300 from 0900-1130

Geography

Bridging Theory and Practice: A Mixed Methods Approach to Explaining Separatism in South Ossetia
Aleksandr Klevenskiy

Race Relations, and the Impact of Tourism in New Orleans Tradition Mardi Gras
Matthew McGoffin

The Leelanau Grower: Polarized Perspectives on the Tart Cherry Marketing Order
Jason Steimel

Geospatial Information Science

Post fire vegetative re-growth assessment with satellite imagery
Lee Summerlin

Light Detection and Ranging (LiDAR) and Forest Penetration
Byron Plapp

Environmental Science/ Environmental Engineering

Testing removal efficiency in locally constructed bio-sand filters
Haley Johnson

Designing an Environmentally Mindful West Point Teaching Garden
Bradley Potts

Assessing the Impact of USMAPS Construction on the Health of Sinclair Brook
Devin Redding

Bringing Water to Yonkers: the Collection and Utilization of Rainwater for Urban Garden Irrigation
Michael Van Sickle

Rainwater Harvesting on FOBs
Jana Binkerd, Michael Kilby, Scott Reily

Alternative Disinfectant for the Reverse Osmosis Water Purification Unit
Joe Bailey, Christina Johnson, Derek Stanley

Recycling Plastic Water Bottles on FOBs
Jake Darsey, Sean Hutchison, Marcie Nordt

NBC Water Treatment System for the Individual Soldier
Matthew Burke, Haley Johnson, Charles Pham

Department of History

830	TH 160	Logistics in the Early Crusades <i>CDT Daniel Koszalka</i>
830	TH 158	What Came With Time: An Analysis of the Antebellum Southern Industrial Movement. <i>CDT Cale Hansen</i>
900	TH 158	Ellen McCormack for President: Catalyst for Pro-life Grassroots Political Action <i>CDT Brian Sears</i>
900	TH 127	The Beautiful Cockroach: How Hutu Power Normalized Violence Against Tutsi Women During the 1994 Rwandan Genocide <i>CDT Natalia Gruenbaum</i>
930	TH 158	The Normandy Staff Ride <i>CDT Daniel Prial</i>
1000	TH 160	Ellen McCormack for President: Catalyst for Pro-life Grassroots Political Action <i>CDT Brian Sears</i>
1000	TH 158	Humming a Different Tune: Propaganda through Music in the 1950s and the Disconnect between American Youth and Policymakers <i>CDT Patrick Moesta</i>
1000	TH 127	Ethnic Propaganda in Sudan: The Spark of Ethnic Cleansing" <i>CDT Dan Zeller</i>
1030	TH 158	American Education, Cultural Diplomacy, and Soft Power: America's Soft Power Opportunity in the Cold War, 1958-1960. <i>CDT Grant Kirkpatrick</i>
1100	TH 158	The Beautiful Cockroach: How Hutu Power Normalized Violence Against Tutsi Women During the 1994 Rwandan Genocide and How Sexual Violence Developed as a Result of Sexualized Propaganda and Ethnic Myth <i>CDT Natalia Gruenbaum</i>
1100	TH 160	"Children of the Mist": Mosby's Rangers in the 1864 Shenandoah Valley Campaign <i>CDT Stephen Hopkins</i>
1100	TH 127	To Hell with Integrity: Understanding Congressional Intervention into Major League Baseball's Drug Testing Policies <i>CDT Daniel Prial</i>
1130	TH 158	Ethnic Propaganda in Sudan: The Spark of Ethnic Cleansing" <i>CDT Dan Zeller</i>
1300	TH 158	Public HIST: The Kosciusko's Garden and Flirtation Walk Project. <i>CDT Sean Flynn</i>
1300	TH 160	"Vectigalia Nervos Esse Rei Publicae: The Role of the Tributum in the Rise and Fall of the Roman Republic." <i>CDT Ryan Waldorf</i>
1300	TH 127	What Came With Time: An Analysis of the Antebellum Southern Industrial Movement <i>CDT Cale Hansen</i>
1330	TH 158	Napoleon in Northern Italy: The Italy Staff Ride <i>CDT Stephen Murphy</i>
1400	TH 158	The Newburgh Conspiracy Title <i>CDT Nathan Markette</i>
1400	TH 160	An Examination of the Legal Systems of the pre-Murabittun Maghrib <i>CDT Daniel Mitchell</i>
1400	TH 127	Slovenski Obrambni Sistem V Julijskih Alpah: Claustra Alpium Iuliarum and the Strategic Posture of the Roman Empire, 6 CE-400 CE <i>CDT Blaz Marolt</i>
1430	TH 158	"Vectigalia Nervos Esse Rei Publicae: The Role of the Tributum in the Rise and Fall of the Roman Republic." <i>CDT Ryan Waldorf</i>
1500	TH 160	Southern Judgment: Sherman and His Motives for the March to the Sea <i>CDT Jonathan Traczyk</i>

Department of Law

Law Conference Room and Law Library are located on the 4th Floor of Building 606 (Admissions)

Appreciation and great thanks goes to the D/Law Projects Day Sponsors:

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800	LAW CONF	Private Military and Security Contractors (PMSCs) on the Battlefield and the Rule of Law <i>CDT Pamela Baker</i>
800	LAW LIBRARY	Due Process and the Army Physical Disability Evaluation System and Integrated Disability Evaluation System <i>CDT Joseph Hrcnciar</i>
900	LAW LIBRARY	Bullets. Valor. Honor. Speech. The Stolen Valor Act of 2005 <i>CDT Christian Bellavia</i>
900	LAW CONF	The Lawfulness of Interactions Between the CIA and the NYPD <i>CDT William Carpenter</i>
1000	LAW CONF	The Fight to End Domestic Human Trafficking: Problems and Solutions <i>CDT Curtis Cranston</i>
1100	LAW CONF	Self-Defense Paradigm of Article 51 of the U.N. Charter: Protect Principles of Justice? <i>CDT James Smith</i>
1100 & 1300	LAW LIBRARY	The Center for the Rule of Law presents the short film: Point to Point: Cadets travel to post-civil war slum West Point Liberia. <i>CDT Megan Holt & CDT Brian Solmonson</i>
1300	LAW CONF	Improving the Honor System at West Point <i>CDT Kenneth Brown</i>
1400	LAW LIBRARY	The Great Debate: West Point Speech Team Debate Competition <i>CDT Members of the Speech Team</i>
1400	LAW CONF	Women's Property Rights in Liberia <i>CDT Megan Holt</i>
1500	LAW CONF	ENERGY RELATED PROJECT: To Frack or Not To Frack: Hydraulic Fracturing and the Legal Interpretation of Mineral Rights <i>CDT Brian Carlson</i>
1500	LAW LIBRARY	Legal Framework for Defending the U.S. from Nuclear Catastrophic Events: A Jus ad Bellum and Jus in Bello Analysis <i>CDT James Rafferty</i>
1600	LAW CONF	Corruption and the Rule of Law in Ukraine's Judicial System <i>CDT Garry Schwartzman</i>
1600	LAW LIBRARY	Land Dispute Resolution Recommendations for Post-Conflict Liberia. <i>CDT Brian Solmonson</i>
1700	LAW CONF	The Use of Race in West Point Admissions: The Legal Implications of Affirmative Action at USMA <i>CDT Paul Bryant</i>

Department of Mathematical Sciences

All presentations will be held in Thayer Hall 2nd Floor Hallway (West Side) from 1000-1200

The Past, Present, and Future of Wireless Security: An Analysis of Wi-Fi Protected Access
CDT David Bierbrauer

Seismic Activity Modeling Using Finite Elements
CDT Benjamin Johnson

Data Analytics In Support of Army Football Defensive Operations
CDT Kirby Kastner

The Extended Operator Method
CDT Dennis Kim

Retirement Benefit Retention Impact Mode
CDT Joseph Lucas

The Value of the Fan
CDT Theodore MacDonald

Data Analytics in Support of Army Football Defensive Operations
CDT Jeremy Maness

Hunter Satisfaction on the West Point Reservation
CDT Corey McCrury

Modeling Cooperation Through the Use of Pursuit and Evasion Teams
CDTs Murphy Pfohman and Jessica Sexauer

The Zodiac Cipher
CDT Sean Poyner

The Long Ball: Analysis of the 50 Home Run Club and Links to Performance Enhancing Drugs
CDT Zachary Price

The Long Ball: Going the Distance with Mickey Mantle's Top 10 Homeruns
CDTs Shawna Bleyl and JT Watkins

Games and Trust within Networks
CDT Michael Rocha

Counter-Insurgency Combat Modeling
CDT Samrawit Tamyalew

Quantative Analysis in Hockey
CDT Peter Williams

Optimizing the Scheduling of Scouts for an MLB Team
CDT Ryan Davis

Improving Bayesian Statistics with Truncation
CDTs Samuel Ellis and Tanner Robertson

Footpath Extraction in LIDAR
CDT John Fernandes

The Bombing Problem- A Review of Damage Functions
CDT Timothy Griggs

Determining Blood Flow Parameters in Tumor Regions
CDT Spencer Hansen

A Mathematical Analysis of Tuning in Western Music
CDT Cyril Helbling

Susceptibility of Zea Mays to Fungal Pathogens
CDT Cary Hooper



Projects supported by the Network Science Center

Appreciation and great thanks goes to the Network Science Center Projects Day Sponsors:

Army Research Office
Office of the Secretary of Defense

All presentations will be held in Thayer Hall 2nd Floor Hallway (West Side) from 1000-1200

A Network science approach to protests and riots

Theodore Fong

The role copyright policies on the mash up artist business

Cyril Helbling

Effects sex education policies on STDs and pregnancy

Sara Lehman, Kirby Kastner, Jeremy Maness

A network strategy to determine placement of water access & treatment facilities

Brenden Seikman, Samantha Tamyalew, Jessice Sexauer, Rachel Stuhlmiller

Drug trafficking networks

Kelly Eyre, Ben Johnson, Taylor Mosera

Zombie Botnets

George Smith

PIPA and SOPAs effects on file sharing

Spencer Hansen

Effects of the military's downsizing on the economy

Andrew Edwards, Michelle Clark

Evolution of the OPEC network

Dennis Kim, Joe Lucas, Michael Rocha

(Social) Decision 2012: Personal and Financial Networks at Play in Today's Politics

Kalan Snyder

Why the US did not ratify the Kyoto Treaty and the effects on global energy markets

Tanner Robertson, Cary Hooper

Disease spread in an SIR Network Model

Sean Poyner, David Berbauer

Homelessness in urban communities

Rachel Gomez, Murphy Pfohman

Social network analysis of the failed state index

Fred Beebe

Field Ready Solution to COIN using Network Analysis and Principled Negotiation Techniques

Jake Baxter, Andy Oswald

The Kashmir Peace Process: A Strategic US Interest

Luke Hutchison

The Principled Negotiation Model: A Tool for Army Leaders

Matt Demartino, Wayne Pak

The Dynamics and Patterns within a New Organization

Theodore Fong

Analyzing a Social Networking Website

Jeff Nielsen

Research of Insurgent Network Graphs

Kelly Eyre, Ben Johnson, Taylor Mosera

Occurs All Day in West Point Club Ballroom

The Spatial Distribution of Genocide from the Center of Ensuing Chaos

Carl Rios

Department of Physics and Nuclear Engineering

Appreciation and great thanks goes to the PANE Projects Day Sponsors:

Photonics Research Center
Army Research Office (ARO)
Defense Threat Reduction Agency (DTRA)
Space and Missile Defense Command (SMDC)
High Energy Laser Joint Technology Office (HEL-JTO)
MIT Lincoln Labs
Warrior Transition Unit Cadre

All presentations will be held in Bartlett Hall North 1st Floor

- 0800-0950 Modeling and simulations using deterministic and stochastic Monte Carlo computer codes
Levon Burton, Tyler Gates, Steven Sloan
- 0800-0950 Army Net Zero Energy solution proposal for Ft. Detrick
Aristotle Alviso, Christian Varnau, Lindsay Gordon
- 0800-0950 Analysis of open and closed fuel cycle models in the United States using VISION modeling software.
Ashley Murray
- 0800-0950 Characterization of the DTRA Integrated Standoff Detection System (ISIS)
Jared Hoff, Alexander Johnson, Michael Kipp
- 0800-0950 High sensitivity SNM forensics via correlated photo-induced signatures
Taylor Bruff, Jacob Ford, William Semple
- 0800-0950 Characterization and modeling of nuclear detection capabilities
Robert Gryfinski, Artur Liamin, Idi Mallari
- 0800-0950 Army Net Zero Energy solution proposal for West Point.
Anna Cruickshank, Jordan Smith, Michael Van Oteghem
- 0800-0950 Army Net Zero Energy solution proposal for Ft. Hunter-Liggett
Kyle East, Grant Meumann, Charles Schultz
- 0800-0950 Army Net Zero Energy solution proposal for Ft. Bliss.
Kaitlin Goodall, Christopher Ruis, Thomas Wagner
- 0800-0950 Army Net Zero Energy solution proposal for Ft. Carson.
Leslie Martell, Jacob Hardin, Anthony Gonzalez
- 1000-1150 Nuclear forensics with short-lived fission products
Timothy Golden, Cody Murtle, Ryan Shepherd
- 1000-1150 Modeling optical flash from the detonation of an improvised nuclear device
Richard Milvenan, Bao-Huy Vo
- 1000-1150 Brigade combat team survivability from a nuclear weapon detonation
Michael Carillo, Eu Jin
- 1000-1150 Radon characterization at West Point
Kyle Carberry, Colin Davis, Kevin Lusted
- 1000-1150 Experimental validation of high energy laser (HEL) engagement models
Jordan Smith
- 1000-1150 Trajectory analysis: Earth to near-Earth object
Justing Verde, Emily Waugh, Austine Scales
- 1000-1150 Trajectory analysis: Earth to Mars
Lindsay Gordon, Justin Vonsik, William McDonald
- 1000-1150 Advanced technologies for Earth-NEO-Mars missions
Idi Mallari, Desiree Buzzetta-Caputo, Daniel Ruckman
- 1000-1150 Numerical simulation of thermal force and frequency noise in ultrasensitive force detectors
Aristotle Alviso
- 1000-1150 Identifying patterns in the approach to chaos and islands of stability in various population models
Charles Schultz
- 1000-1150 Cryogenic laser development
Cameron Prince

Department of Physical Education

Projects supported by Center for Physical Development Education

All presentations held between 0730-1200 at Arvin Gym

Classification of foot arch type and function

CDT James Bond, CDT Mikaela Makowski, CDT Rollin Nash

Traumatic Brain Injury

CDT Eric Harleman, CDT Joseph Hathcock, CDT Lauren Lybbert, CDT Moira McCormack

Workplace Ergonomics

CDT Caitlin Adamowicz, CDT Tone Biggs, CDT Mark Hoempler, CDT Tyler Wright

Gait Transition

CDT Megan Doucette, CDT Monica Lee

Gait symmetry and neuromuscular fatigue

CDT Gregory Keith, CDT Andrew Miniear

Heart rate variability

CDT Kalen Larsen

Upper-body work capacity assessed by bench press and push-ups

CDT Alexander Purdy



Department of Social Sciences

- 800 LH100 **Financial Statement Analyses: Defense, Airline, & Internet Industries**
Various (3 cadet groups)
- 0800-0930 LH 122 **Words and War: Political Persuasion in Thucydides' Peloponnesian War**
Dennis Lowe
- 0800-0930 LHB 101A **Patches as Signals: Evidence from Military Performance Evaluations at USMA**
Thomas Balough
- 0800-0930 LHB 201 **Strategic Demographics: Why and How Population Dynamics Will Inevitably Constrain China's Foreign Policy Choices**
Zachary Koenen
- 0800-0930 LHB 202 **Unintended Consequences: Impact of American Aid on Egyptian Political Development**
Brett Schuck
- 0800-0930 LHB 203 **Return of the Visible Hand: Assessing the Impact of Emerging-Market Multinationals in Least Developed Countries**
Tyler Pigg
- 1000-1130 LHB 201 **The Conditions Necessary to Found a Modern Republic**
Aaron Pool
- 1000-1130 LHB 202 **The Arab Spring: The Sociopolitical Influence of Non-Governmental Organizations in Egypt**
Elizabeth Constantino
- 1000-1130 LH 100 **The Calculus of Peace: Conditions for Future Bilateral Arab-Israeli Peace Agreements**
Bennett Holcomb
- 1000-1130 LH 122 **Managing Chaos: Factors that Facilitate a Successful Response to Coordinated Terrorist Attacks in Multiple Locations of an Urban Environment**
Robert Hall
- 1000-1130 LHB 101A **The Effect of China's One Child Policy on Provincial Rice Production**
Merlin Boone
- 1000-1130 LHB 101B **Search for Legitimacy: Traditional Chechen Islam and Ramzan Kadyrov's Strategy for Survival**
Micah Ables
- 1300-1430 LH 100 **Fighting to Own the House: Reevaluating Competition in Elections for the U.S. House of Representatives**
Joseph Amoroso
- 1300-1430 LH 122 **State Conciliation With Terrorist Organizations**
Zachary Kennedy
- 1300-1430 LHB 101A **Reducing Motor Vehicle Fatalities Through Minimum Legal Drinking Age Legislation**
Alexander Pagoulatos
- 1300-1430 LHB 101B **Identity Crisis: The Development of Political Myth and National Identity in Kyrgyzstan and Uzbekistan**
Hanson Causbie
- 1300-1430 LHB 201 **The Balance of Principles, Interests, and Power in American Foreign Policy**
Hana Lee
- 1300-1430 LHB 202 **The Impact of Political Culture on Islamic Terrorism in East Africa**
Benjamin Dratch
- 1500 LH 112 **Letters from Abbottabad: Bin Laden Sidelined?**
CDT Stuart Caudill
- 1500-1630 LH 100 **Army Retention with Non-Monetary Means: A Case Study of the Singapore Army**
Zach Zhang
- 1500-1630 LHB 101A **The Impact of Combat Deployments on Substance Abuse: Survey Evidence from U.S. Army Personnel**
Caleb Stenholm
- 1500-1630 LHB 101B **The Bush Administration in U.S.–Georgia Relations: A Case Study In Neoconservative Foreign Policy?**
Joshua Post
- 1500-1630 LHB 201 **Failure to Repatriate: The Civil-Military Gap in Veteran Unemployment**
Patrick Guitierrez
- 1500-1630 LHB 203 **Empty Silos: Eliminating the ICBM from the U.S. Nuclear Force Structure**
Lauren Pasque

Department of Military Instruction

All Day

WH 6309: DMI
West Point
Simulation
Center

The West Point Simulation Center

WPSC Director and Simulation
Center Manager

Defense and Strategic Studies

Appreciation and great thanks goes to the DSS Projects Day Sponsors:

Defense Threat Reduction Agency (DTRA)
82nd Airborne in Afghanistan

All presentations will be held in Washington Hall Benavidez Room

- 0800-0900 **The Bloods of Newburgh & Al Qaeda of Iraq: Insurgencies in the homeland, and gangs in the warzone?**
CDT Michael Grdina
- 0930-1030 **A Perfect Combination?: An Inter-Disciplinary Analysis of West Point Officer Production**
Cadet Angela Smith
- 1100-1200 **Learning to Eat Soup with a Spoon: Counterinsurgency Lessons from the Philippines and Malaya**
CDT Brendan Lopez
- 1400-1500 **Soldier Load in a Hybrid Environment**
CDT Douglas Gain

Department of Systems Engineering

We welcome the following Universities to SE Projects Day:

**United States Air Force Academy
Stevens Institute of Technology
University of Arkansas
George Mason University**

Appreciation and great thanks goes to the SE Projects Day Sponsors:

2012 Tracks	Track Sponsor
Problem Solving in SE	INCOSE
Systems Design for Defense Applications	NYC USACE/SAME
Systems Design	MORS
Project Management	Phillips Endowment
Modeling and Simulations for Military Applications	INFORMS
Modeling and Simulation	INFORMS
Process Modeling and Analysis	TRAC-WSMR
Decision Analysis	DAS-INFORMS
Poster Competition	TRAC

Organizations that are involved with SE Capstones:

**Armament Research, Development and Engineering Center
United States Army Materiel Systems Analysis Activity
Boeing
STEM Development
Aviation Missile Research Development Center
U.S. Army Rapid Equipping Force
PEO Soldier
Lockheed Martin
Raytheon BBN
Asia Pacific Civil Military Centre of Excellence
Office of the Under Secretary of Defense for Personnel and Readiness (OSD P&R)
United States Army Installation Management Command (IMCOM)
US Army J7
OSD Cost Assessment and Program Evaluation (OSD CAPE)
USACE Engineer Research and Development Center
PM-Individual Weapons
Space and Missile Defense Center-Future Warfare Center
Veterans Affairs
Engineer Research and Development Center (ERDC)
Assistant Chief of Staff for Installation Management
Joint Improvised Explosive Device Defeat Organization (JIEDDO)**

The 2012 General Donald R. Keith Memorial Cadet Capstone Conference

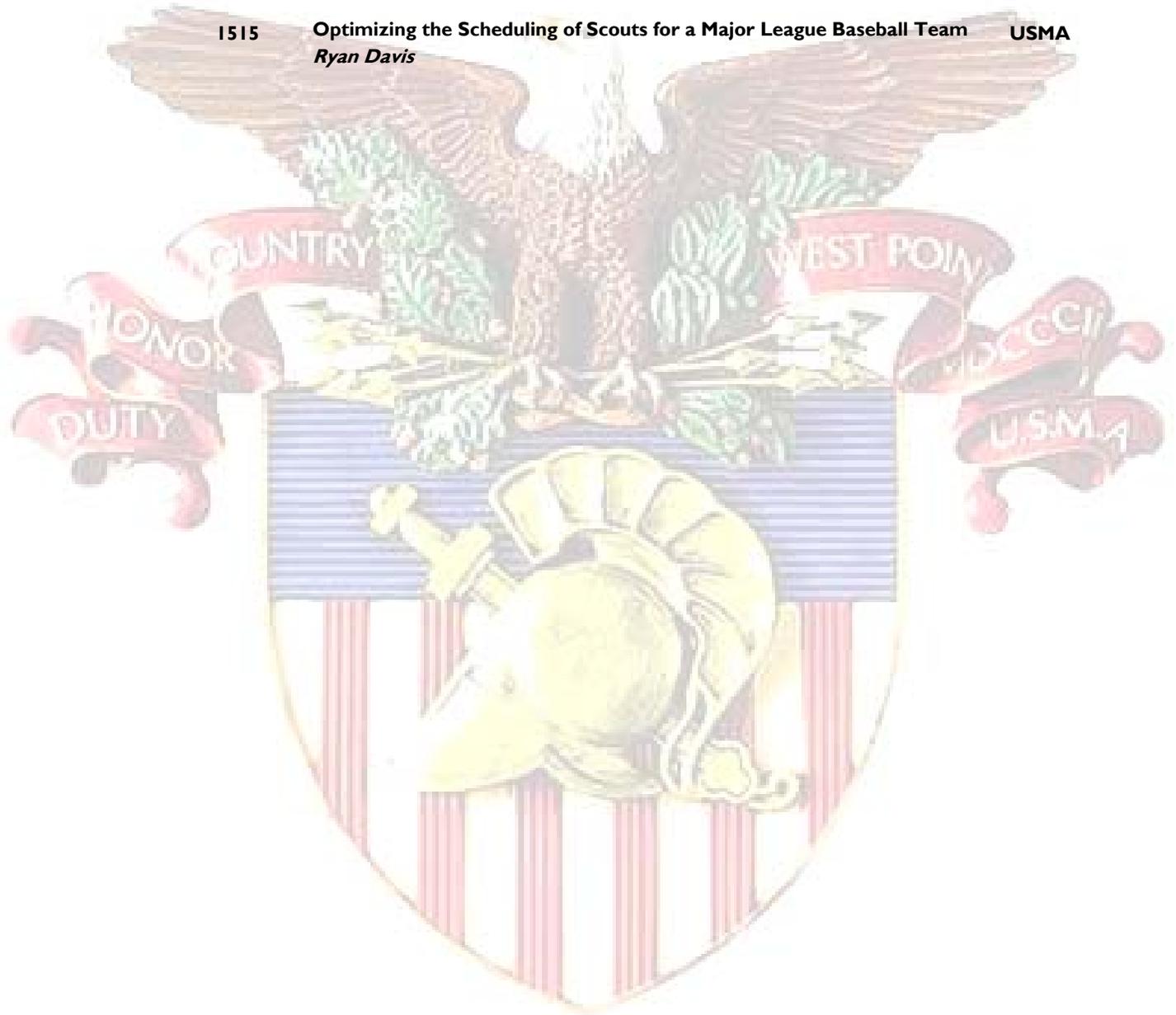
Track	Time	Project Title	School
Decision Analysis	0830	<i>Decision Support for Transitions in Civil Military Operations Erin Jankowski, Katy Seeley, Chris Van Kleef, Casey Weliver</i>	USMA
Chair: Dr Mike Kwinn	0915	EBEYE2023: Capacity Development Comprehensive Master Plan <i>Ryder Cleary, Will Haga, Max Jenkins, Kelsee Miller</i>	USMA
Jefferson Hall	1000	Reliability Analysis and Application in Decision Making <i>Christopher Adkins, Taylor Amadon, Evan Westbrook</i>	University of Arkansas
CEP Reading Lab (Basement)	1045	Improved Language & Cultural Awareness Metrics for DoD Readiness <i>Shawna Bleyl, Matthew Carter, Robert Fiore, Daniel Cashero</i>	USMA
	1300	Rx-Decision: A Decision Support Tool for Optimal Prescription Drug Coverage <i>Chris D. Anderson, Joseph A. Fadul, Anupam Menon, Harold D. Terceros</i>	George Mason University
	1345	Battalion Force Protection System <i>Jake Dellinger, Dan Krumrey, Stephen Lee, Bret Roessler</i>	USMA
	1430-1600	Feedback session with judges	
Process Modeling and Analysis	0830	Assessment of Proficiency in Time-Sensitive Decision-Making: A Case Study of the Soccer Referee <i>Nathan Jones, Andrew Cann, Saud Almashhadi, Hina Popal</i>	George Mason University
Chair: COL Valenzuela	0915	Location Based Criminal Assessment <i>Sara M. Bangert, Nicholas R. Jernigan</i>	Air Force Academy
Jefferson Hall	1000	Reducing food waste at the Air Force Academy by operations analysis <i>Richard J. Brennan, Andrew S. Marchi</i>	Air Force Academy
Room 423	1045	Kwajalein Atoll Director of Public Works Resource Prioritization Model <i>Herb Jockheck, Kevin Ryan, Benden Siekman</i>	USMA
	1300	Lean Six Sigma: Department of Veterans Affairs Congressional Constituent Correspondence <i>Terry Neill, Mary Elizabeth Worth, Glenn Meyer, Tommy Carr</i>	USMA
	1345-1600	Feedback session with judges	
Modeling & Simulation	0830	Simulated dismounted command and control in coalition environments <i>Hansen, Geoffrey; Musk, Bryan J; Coronato, Nicholas J; Rattay, David</i>	USMA

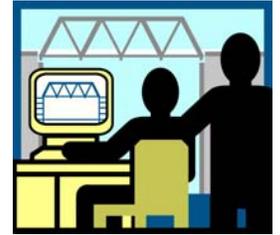
Track	Time	Project Title	School
Chair: Dr. Roger Burk	0915	Design of a Sustainable Oyster Aquaculture Business for the West and Rhode Rivers <i>Amy Crocket, Amir Delsouz, John DeGregorio, Alan Muhealden, Daniel Streicher</i>	George Mason University
Jefferson Hall	1000	Modeling Illicit Trafficking in Central America Erringer <i>Helbling, Zachary Price, Daniel Kelly, Derek Sipperly</i>	USMA
Room 414	1045	Trade-off Analysis of the ROI for Capability Stepping-Stones to a Lunar Habitat <i>Daniel Hettema, Scott Neal, Anh Quach, Robert Taylor</i>	George Mason University
	1300	Environmental Benefit Unit Development for Decision Analysis <i>Mike Bang, Brad Buss, Caitlin Mcardle, Jay Vonlehman</i>	USMA
	1345	USAFA Summer Scheduling <i>Sarah Evans</i>	Air Force Academy
	1430	Supply Chain Logistics Analysis <i>Colby Chaput, John Lepird</i>	Air Force Academy
	1515-1600	Feedback session with judges	
M&S - Military Applications	0830	Squad as the Foundation for a Decisive Force <i>Brandon Long, Jonathan Hoey, Tate Husemann, Timothy Schmidt</i>	USMA
Chair: Dr Patrick Driscoll	0915	Methodology to Model and Understand the Complexities of Social, Economic, and Governance Interactions for Regional Assessment in Kenya <i>Steven Han, Nolan Melson</i>	USMA
		Supported by: Center for Nation Reconstruction and Capacity Development	
Jefferson Hall	1000	Modeling & Analysis of the Impact of Depot Level Maintenance <i>Derek Marchant, Nick Normandin, Frank Yu, Clark Yuan</i>	USMA
Room 501	1045	Expeditionary Housing and Forward Operating Camp System <i>Janie Bridge, John Zeigler</i>	Stevens Institute of Technology
	1300	Integrating Small UASs into the Brigade Digital Communications System <i>Chad Littlejohn, Stephen Gonzalez, J. T. Watkins, and Luke Bradshaw</i>	USMA
	1345	Methodology for Prioritization of Investments to Support the Army Energy Strategy for Installations <i>George Alsfelder, Timothy Hartong, Michael Rodriguez</i>	USMA
		Supported by: Center for Nation Reconstruction and Capacity Development	
	1430	Crew System of the Future <i>Nolan Myers, Joshua Martin, James Bashford, Alex Corbins, Ryan Lee, Scott Lorette, Tejay Espe, Anthony Domingos, Patrick Carpenter, Sean Leary, Karl Tappert, Daniel Lee, Patrick Fay, Christopher Arnett, Daniel Hinkson, Mathew Riopelle</i>	USMA
	1515	Modeling and Simulation to Compare Geosynchronous Satellite on-orbit refueling concepts <i>Jeffrey Benson, Sean Knowles, Mark Williams</i>	Air Force Academy
	1600	Feedback session with judges	

Track	Time	Project Title	School
Project Management	0830	USMA Mini-Baja <i>Connor Kilpatrick, Dan Kutschman</i>	USMA
Chair: LTC Kenny McDonald	0915	Managing the High Energy Laser Interdisciplinary Research Project <i>Jeff Gorn</i>	USMA
Jefferson Hall	1000	Managing the Black Knight Small Satellite Project <i>Daniel Shaffer</i>	USMA
Room 301	1045	Assigning accurate and effective Anti-Terrorism Measures for US Military Installations <i>Karl Grosselin, Ryan Erickson, Mitchell Metzler</i>	Air Force Academy
	1300	Aligning Veterans Affairs medical R&D investments with strategic planning <i>Hayden Deverill, Keith Anderson, Tom Dalton, Don Byerly</i>	USMA
	1345	Post-Disaster Relief Developmental Community <i>Ramy Jaber, Kevin Kagewski</i>	Stevens Institute of Technology
	1430-1600	Feedback session with judges	
Systems Design for Defense Applications	0830	Integrating Adaptive Smart Technology for 40mm Weapon Platforms <i>Degen, Cucinotta, McCrury, Van Velzer</i>	USMA
Chair: Dr Tim Elkins	0915	Identifying future capabilities for small COP/FOB <i>Collin Smith, Greg Young, Adam Pontrich, Rex Robinson</i>	USMA
Jefferson Hall	1000	XM-25 Secondary Weapon System Analysis <i>Timothy Griggs, William Hinkley, Matthew Otterstedt, James MacGibbon</i>	USMA
		Supported by: Center for Nation Reconstruction and Capacity Development	
Room 514	1045	Decision support approach for placing acoustic shot detection systems <i>Zach Ciampa, Justin Weeks, Zach Uebele, Carl Whitley</i>	USMA
	1300	Evaluation of Assessment Methodology to Support Combined Joint Task Force-Horn Of Africa <i>Gregory Elgort, Eric Jones, Eric Kim, Taylor Mosera</i>	USMA
		Supported by: Center for Nation Reconstruction and Capacity Development	
	1345	Integrating Geospatial Analysis and Counter-IED Tools into Mission Planning - STRIPE Track <i>Davis, Ryan C; Jantzen, John D; Mcfarland, Douglas J; Williams, John T</i>	USMA
		Supported by: Center for Nation Reconstruction and Capacity Development	
	1430	Alternatives for a Launch-on-Demand Tactical Communication System <i>Antuan X. Aaron, Michael Fitzgerald, Jon Haveron, and Matt Saunders</i>	USMA
	1515	Integrating Geospatial Analysis and Counter-IED Tools into Mission Planning - SCARE Track <i>Bloom, Zachary S ; Lockard, Patrick R; Newell, Jason M; Santos, Calvin P</i>	USMA
		Supported by: Center for Nation Reconstruction and Capacity Development	
	1600	Feedback session with judges	
Systems Design	0830	Feedback Systems for the Rapid Equipping Force <i>Frederick Beebe, Richard Davis, Erik Hoempler, Maxwell McDonnell</i>	USMA
Chair: Dr John Farr	0915	Platoon Sized Combat Outpost Force Protection System <i>Samuel Ellis, Francisco Ferbrache, Andrew Manglicmot, Harrison Mann</i>	USMA

Track	Time	Project Title	School
Jefferson Hall	1000	Tradeoff Analysis to Achieve Carbon Neutral Growth at Airports: How to Achieve the Least Cost Carbon Neutral Growth in the Presence of Traffic Growth <i>Joel Hannah, Danielle Hettmann, Chris Saleh, Naseer Rashid, Cihan Yilmaz</i>	George Mason University
Room 401	1045	USMA Mess Hall Forecasting <i>Michael Wright, Pat Ryan, Bryant Skarda, Alex McRae, Kyle Maggard</i>	USMA
	1300	Creating an Architecture to Assess the Operational Benefit of Handheld Devices <i>Devin Lynch, Theodore MacDonald, Michael McDermott, Brenden Reber</i>	USMA
	1345	Enterprise Modeling for the Analysis of the Alternatives Process in Proposal Generation <i>Gabriel Lewis, Saad El Beleidy, Jared Kovacs, Peyman Jamshidi</i>	George Mason University
	1430-1600	Feedback with Judges	
Problem Solving in Systems Engineering	0830	All Hazards Simulator #1	USMA
Chair: LTC Libby Schott	0915	All Hazards Simulator #2	USMA
Jefferson Hall	1000	A Decision Support Tool for Planning Sensor Allocation on a Combat Outpost <i>Jeff Caraccio, John Cody, Conor Hayes, Jared Mullane</i>	USMA
CTE Classroom (1st floor), Room 121	1045	Simulating the Impact of Sensors on a Combat Outpost <i>John Eife, Scott Lucado, Kevin Rice, Shelton Seaborn</i>	USMA
	1300	The Best MORS Symposium you could ever want! <i>Bryan Blair, Thomas Johnston, Christopher Newman, Christopher Wigboldy, Peter Williams</i>	USMA
	1345	West Point Transportation Problem <i>James Oswald, Jarrod Oliver, Stephen Schutte, Brian Webb</i>	USMA
	1430	USMA Mess Hall Waste Disposal Program <i>Adam Akridge, Luke Bonewitz, Edwin Cruz, Murphy Pfohman</i>	USMA
	1515	Retention of Warrant Officers in the 160th Special Operations Aviation Battalion <i>Catherine Ball, Neal Bray, Eric Goodrich, Julian Simmons</i>	USMA
	1600	Feedback with Judges	
Hollis Award	1045	Simulated dismounted command and control in coalition environments <i>Hansen, Geoffrey; Musk, Bryan J; Coronato, Nicholas J; Rattay, David</i>	USMA
Chair: Math Department	1300	Crew System of the Future <i>Nolan Myers, Joshua Martin, James Bashford, Alex Corbins, Ryan Lee, Scott Lorette, Tejay Espe, Anthony Domingos, Patrick Carpenter, Sean Leary, Karl Tappert, Daniel Lee, Patrick Fay, Christopher Arnett, Daniel Hinkson, Mathew Riopelle</i>	USMA

Track	Time	Project Title	School
Jefferson Hall	1345	Methodology to Model and Understand the Complexities of Social, Economic, and Governance Interactions for Regional Assessment in Kenya <i>Steven Han, Nolan Melson, Joshua Stephens, Derek Turner</i>	USMA
		Supported by: Center for Nation Reconstruction and Capacity Development	
Room 116	1430	Footpath Extraction in LIDAR <i>John Fernandes</i>	USMA
	1515	Optimizing the Scheduling of Scouts for a Major League Baseball Team <i>Ryan Davis</i>	USMA





**West Point Bridge Design Contest
2012 Final Round
The West Point Club Athena Room 0900-1100**

Welcome to the Final Round of the 2012 West Point Bridge Design Contest. The purpose of this contest is to provide high school students with opportunities to:

Learn about *engineering* and *engineering design*.

Learn about *truss bridges* and how they work.

Learn how engineers use the computer as a problem-solving tool.

The contest was developed by the faculty and staff of the United States Military Academy.

Meet the Finalists

Koalas

Cornwall, New York

Charles Paffenroth

Johanna Manzari

Polysteel

Port Charlotte, Florida

Kyle Howard

Josh Cloonan

Tha Bridge

Cornwall, New York

Nathan Parrette

Ryan O'flaherty

Jackal

Thousand Oaks, CA

Michael Belleville

Jacklyn Belleville

Team Epic

West Virginia

Nayan Zinzuwandia

Aniket Zinzuwandia

Knightowls

McLean, VA

Alex Ginnerty

You-Kyung Lee

Army-Navy Finalists

Rachel Army

Orlando, Florida

Rachel Narzissenfeld

Navy Bridge

Ohio

Colin Truong

Amal Hagi

**West Point Projects Day
3 May 2012**

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Academy Research Committee

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117 Jefferson Hall
West Point, NY