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- ▶ George Mason University
- ▶ Rutgers University
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As participants in Project Day 2006



UNITED STATES MILITARY ACADEMY West Point, New York



PROJECTS DAY

4 May 2006

Projects Day promotes academic excellence by providing cadets of the First Class with a public forum in which to present their senior theses or design projects. The Dean encourages all cadets to attend Projects Day events.

Presentations will be held in the following locations:

WPC = West Point Club, Ballroom	LH = Lincoln Hall
MH = Mahan Hall	TH = Thayer Hall
MH AA = Mahan Hall Arnold Aud.	BH = Bartlett Hall
WH = Washington Hall	LAW = Bldg 606

Thanks to the following staff & faculty for Projects Day

MAJ Neil Radicic, C&LS	MAJ Tom Meyer, MATH
LTC Fred Meyer, C&ME	LTC John Hartke, PHY
LTC Lisa Shay, EE&CS	MAJ Rick Wrona, SOSH
LTC Scott Krawczyk, English	MAJ Grant Martin Sys Eng
LTC Gary Sargent, For. Lngs.	MAJ Mike Parsons, USCC
MAJ Tom Timmes, G&EnE	Ms. Linda Mastin, PAO
CPT Ben Wallen, G&EnE	Mr. Bob Ryan, AAD
Mr. Tim Bakken, LAW	

<u>Time/Place</u> <u>Dept.</u>	<u>Project Title</u>	<u>Cadets</u>	<u>Time/Place</u> <u>Dept.</u>	<u>Project Title</u>	<u>Cadets</u>
1:30/LH101 Soc	Army Incentives and Reenlistment: The Effects of Army Incentive Programs on Reenlistment	Tom Cai	7:30/WH6004 G&EnE	Assessment of West Pt. Stream Bed Undercutting	Derek Amile, Karoline Hood Matt Hitzerth, Justin Sprague
2:00/Arnold Aud CME	American Institute of Steel Construction Steel Bridge Competition	Peter Cha, Alex Duffy Eric Johnson, Neil Kester Greg Sablan, Evan Wolf	8:00/MH125A 8:00/MH127A	CE Poster Session (observable all day) ME Poster Session (observable all day)	
2:00/MH205 CME	Testing for Earth Bag Houses	Ryan Dunbar	8:00/MH223 CME	Black Dart III, Team 1	Kiera Connerty, Benj. Hartig Jourdan Kintz, Kaitlin Mandel- kow, Phil. Song, Tamanh Tran
2:00/WH5006 FL	Venezuelan and U.S. Responses to a Natural Disaster, a Comparative Analysis of the Mississippi Flood of 1992 and Venezuela's Mudslides of 1999	Alexander Lamolinara, Pedro Maldonado-Diaz, Thomas Groves, Jean Scrivner Andrew Renken	8:00/MH E Lvl CME	Mobile Alternating Current System (MACS)	Lane Jordan, Thomas Maney
2:00/WH5002 FL	Comparing the U.S. and French Response to the Asian Tsunami	Gregory Dieterich, Andrew Lowe, James Perkins, Christopher Renoll	8:00/MH205	CE492-1	Neil Kester, Kelly Lanternier Andy Polashenski, Brian Wilson Dan Orr, Rich Juten
2:00/WH6004 G&EnE	Environmental Security Assessment of Mongolia	Cody Pittman, Ehren Linderman	8:00/MH B23	CE492-2	Jesse Sladek, Greg Sablan
2:00/Bldg 606 4FI Law Conf Rm	Religion in Public Schools	John Policastro	8:00/WH6004 G&EnE	Analysis of Environmental Impacts Associa- ted with Locating USMAPS at West Pt.	Selina Cooney, Josephine Hix Celia Nowicki, Mike Williams
2:00/Bldg 606 4FI Law Library	Presidential Orders Conflicting With Congressional Statutes	Dustin Kostelich	8:00/WH5002 FL	A Comparative Analysis of Flood Response in Brazil and the U.S.	David Crigger, Taylor Justice Thomas Payne
2:00/Bldg 606 Rm 401 Law	Iraq Constitution Comparative Analysis	Kindall Witter-Tilton	8:00/WH5006 FL	Mexican & U.S. Responses to a Natural Disaster, a Comparative Analysis of Katrina and the Mexico City Earthquake of 1985	Dariam Medina, Tania Moreno Justin Rude, Jacob Brady John Shaw
2:00/Bldg 606 Rm 408 Law	Iraq War: Preemptive or Preventive	Megan Noble	8:00/WH4410 FL	A Comparative Analysis, the Riots in France 2005 and Los Angeles 1992	Felipe Buzaid, Louis Cascino Michael Demichiei, Noah McQueen, Sarah McNair
2:00/TH248 Math	Themed Network Analysis Using Jihadist Texts	Julie Jorgensen	8:00/Bldg 606, 4FI Law Conf Rm	Illegal Pirating of Music	Paul Gower
2:00/TH255 Math	An Implementation and Cryptanalysis of the AES	Brandon McConnell	8:00/TH248 Math	Project Tracking & Resource Management	Jasmine Walker
2:00/MH101 SE	Development of Metrics & Methodologies for Defining the Resilience of a Metropolitan Area	Abbas Elegba, John Lenart Maxwell Pappas, David Talbot	8:00/TH255 Math	Are Modern Day MLB Managers Using Their Pitching Stars Effectively?	Nicholas Linse
2:00/MH104 SE	Dynamic Response System for Public Transportation (<i>Rutgers University</i>)	Michael Chou, Michael Hornby Vikrum Ingle	8:00/LH101 Soc	The Effects of US Tarrifs on Sub-Saharan African Agricultural Exports	Peter Crawford
2:00/MH106 SE	Design and Test of a New Unit Readiness Measure	Rachel Fazio, Michael Premont Alex Hensley, Michael Mingler	8:15/BH 302 Phy	Spatial and Temporal Beam Profile of a Pico-Second Pulse Laser	Douglas Odera
2:00/MH107 SE	Improved Ballistic Test and Evaluation Methodology	Shane Sullivan	8:30/MH B5	CE492-3	Lorintz Gleich, Jen Gonser Chris Mooneyham, Jeremy Stache
2:00/MH108 SE	Digitizing the Keller Emergency Operations Center	Ian Folau, Jimmy Fisher Amanda Paluch, Adam Vance	8:30/WH6004 G&EnE	Analysis of Environmental Impacts Associa- ted with Relocating TMP and DHPW Facilities Because of the USMAPS Relocation to West Pt.	Patrick McCarthy, Valton King Chase Roe, Scott Sweeney
2:00/MH102 SE	Colorado Springs Network Analysis and Ridership Optimization (<i>USAFA</i>)	David Smallenberger Kent Morgan, Eric Wilmot	8:30/TH248 Math	Computer Simulation of Chemical & Biological Decontamination to Include Sensitive Equipment Decontamination	Elizabeth Yisrael
			8:30/Th255 Math	Test and Feedback of Joint Airspace Simula- tion Model Software	David Danford

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8:30/MH106 SE	Employment of the Multipurpose UAV's See and Avoid Capability	Brian Karhoff, Jason Limb Shane Oravsky Alan Shepard	1:00/TH255 Math	Behavior Creation/Modification in Agent-Based Simulation (USAF SEAS)	David Dunham
8:30/MH107 SE	Design of an Objective Force Army unit that utilizes SCRAMJET technology	Derek Grotheer, Grant Hartman, Samuel Russo Jared Wagner	1:00-2:30/BH304/6	Physics & Nuclear Engineering Poster Session, students available to answer questions pertaining to subject matter content.	
8:30/MH108 SE	Improving the USMA Cadet Mess Hall Seating Operation	Derek Kenmotsu, Blair Wilcox Kristen Loyd, Amanda Miller	1:00/MH102 SE	Automated Parking Garage System (<i>Rutgers University</i>)	Charles Guiliano, Abhinav Jha Nicolas Morillo
8:30/MH105 SE	RAMROD Combat System	Edward Blyth, Patrick Brundage, Cresta Lebrun Steven Song	1:00/MH106 SE	Systems Analysis of Border Security Sensor Technology Alternatives	Ashley Hahn, Nicholas Linse Tyler Merritt, Sophia Obamije
8:30/MH104 SE	First Term Dental Readiness at Ft. Benning	Matthew Hoffman, Tynika Holland, Sean Kim Shane Sullivan	1:00/MH107 SE	Objective OneSAF	Bernardo Arce, John Dorost Nicole Posey
8:30/MH103 SE	Base Defense Planning & Employment Guidelines Using Data Farming Based Simulation	Jillian Morton, Anthony Nguyen, Leo Thomas Patricia Williams	1:00/MH101 SE	Emergency Helicopter Support System (EHS) (<i>George Mason University</i>)	Dean Adkins, Ayman Karamalla, Ignacio Noboa-Heredia Eric Vogel, Jonathan Norris
8:30/MH101 SE	Integrating Chemical-Biological Protection into a Combat Uniform	Jure Himelrajh, Haley Mercer Brandon McConnell Noah Smith	1:00/MH104 SE	Lunar Base Design and Re-supply	Christopher Barlow, John Bilal, Matthew Fletcher Jason Zuniga
8:30/MH102 SE	Leader's Tactical Medical Monitoring Collective (LTM2C)	Jure Himelrajh, Haley Mercer Brandon McConnell Noah Smith	1:00/MH103 SE	Optimizing Small Call Center Performance at Memorial Hospital, Colorado Springs (<i>U.S. Air Force Academy</i>)	Melanie Thomasson, Patrick Chapman, Matthew Hatt Anthony Perez, Jerard Rich
8:45/BH302 Phy (Nuc En)	Determining the Presence of Landmines Using Photon Backscattering	Robert Brougham Jared Lang, Daniel Parker Christopher White	1:00/MH108 SE	Selection and Location of High Energy Lasers for Fixed Base Defense in Iraq	Miles Hidalgo, Daniel Krueger James Mis, Andrew Robinson
>>Below CLS projects on display 9:00a.m. — 2:00p.m., briefers on standby in Athena Rm<< 12:00—2:00, West Point Club		Andrew Gillick	1:00/MH105 SE	Bio-Event Resource Management System (<i>George Mason University</i>)	Yasmin Amin, Kim-Lynn Dam Timothy Nicola, Shery Salama Kathryn Yassine
9:00/WPC Ath Rm C&LS	Oxygen Consumption in Combat	Hunter Winegarner	1:00/LH100 Soc	Rice, Beans, & Representation: Hispanic Members of Congress & Implications for the Future	Brandon Archuleta
9:00/WPC Ath Rm C&LS	Combined Effects of Silver Ions, UV Radiation &/or High Pressure on <i>Bacillus Subtillis</i> Spores		1:30/MH E Lvl CME	Timber Bridge Competition	Mike Conway, Ray Koenig Alex Zerio
9:00/WPC Ath Rm C&LS	Characterizing the Spectral Reproducibility of Quartz-bound Au Nanoparticle Substrates for Surface Enhanced Raman Spectroscopy	Audra MacNeil	1:30/MH B5 CME	Very High Strength Concrete Research	Andrew Hutchinson Mike Riccitiello, Nick Soroka
9:00/WPC Ath Rm C&LS	Evaluation of Remote Animal Research: A Collaboratory Effort Between USMA & Texas A&M	Eric Ni	1:30/MH B19 CME	Robot Manipulator	Drew Hanson, Jonathan Rios
9:00/WPC Ath Rm C&LS	Velocity & Heart Rate Recovery During the Indoor Obstacle Course Test (IOCT)	Elizabeth Greenstein	1:30/WH5326 G&EnE	Optimizing Methane Gas Production and Collection from Wastewater Treatment Anaerobic Sludge Digesters	Amy Bauer
9:00/WPC Ath Rm C&LS	Muscle Activity in Simulated Combat Environments	Jason Bradley	1:30/WH6004 G&EnE	Environmental Security Assessment of Nigeria	Drew Henry, Nick Knepp
9:00/WPC Ath Rm C&LS	Image Analysis of a Corneal Wound Injury Animal Model	Mike Nguyen	1:30/TH248 Math	Key Word Database for Government Contracts	Matthew Hoffman
9:00/WPC Ath Rm C&LS	Image Analysis of a Corneal Wound Injury Animal Model	Chonna Larry	1:30/TH255 Math	Simulating Quantum Gates	Christopher Stevens

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11:30/MH B5 CME	Redesign of Washington Gate	JakeTorrey	>>Below CLS projects on display 9:00a.m. — 2:00p.m., briefers on standby in Athena Rm<< 12:00—2:00, West Point Club		
11:30/MHB19 CME	Jefferson Hall: Design of Cadet Areas	Brandon Davis, Brad Nicka	9:00/WPC Ath Rm C&LS	Effect of Breathing 7% Carbon Dioxide on the Hoffman Reflex During Soleus Muscle Isometric	Stephanie Brouse
11:30/WH5326 G&EnE	Precipitation Kinetics of Lead Phosphate: Determination of the Rate Limiting Step in the Formation of Lead Phosphate Precipitate Under Varying Environments	Justin Sprague	9:00/WPC Ath Rm C&LS	Growth Inhibition of the Deep-Sea Bacterium, 9NA by Exposure to Elevated Levels of Carbon Dioxide	Elizabeth Michaelson Nicole Miller
11:30/TH255 -1:00	Math and Operations Research (OR) Poster Session	All Math & OR Majors	9:00/WPC Ath Rm C&LS	Heart Rate Response of Running the IOCT Wearing Various Types of Military Equipment	Brandy Butler
1:00/MH223 CME	AIAA Design, Build, Fly	Peter Cho, Josef Garcia James Holloway, Cheikh Mbengue, Ryan McQuarrie Daniel Varley Isaac Wisniewski	9:00/WPC Ath Rm C&LS	Thermodynamic Characteristics of Biotin Carboxylase	James Nguyen
1:00/MH Arnold Aud CME	American Society of Civil Engineers Concrete Canoe Competition	Rich Juten, Joe Riley, Beth Wagner, Ben Washkowiak	9:00/WPC Ath Rm C&LS	Kinetic Observations of Biotin Carboxylase	Gabriel Parras
1:00/MH B23 CME	Multi-Hit Ceramic Armor Research	Brian Hottell, Carl Kruger Bradley Martin, Tuan Nguyen David Psiaki	9:00/WPC Ath Rm C&LS	ACL Injury Risk Reduction Through Military Training Program	Kyle Hoedebecke
1:00/TH144 English	Film and Film Theory (6 short films, 45 min total)		9:00/WPC Ath Rm C&LS	2,4-Pentadione & 1,1,1-Trifluoro-2,4-Pentadione: Experimental Verification of Keto-enol Compounds	Matthew Peterson
Cadets Michael Benedosso, Eileen Cassidy, Juan Castellanos, Samuel Chiang, George Cook Peter Cox, Jerry Drew, Benjamin Flores, Brenda Gonzales, Ana-Maria Hartwig, James Hickman, Phillip Hokenson, Zachary Horan, Colby Horowitz, Julie Jorgensen, Darren Joyce, Brittany Kennedy, Steven Lancianese, Joshua Leone, Andrius Mazeika, Andrew Moncrief, Theodore Murray, James Nguyen, Cameron Peil, James Platky, Samuel Redig, Marya Rosenberg, Renee Rysiewicz Devon Savoy, Robert Skiver, Steven Swan, Robert Thompson, Emily Worthing, Bryan Yoon Douglas Yoon			9:00/WPC Ath Rm C&LS	Fluorophenol & 1-Benzoylacetone: Experimental Verification of Ketoenol Compounds	JP Steadman
12:00/WH5326 -1:00 G&EnE	Analysis of Air Quality in the Baghdad Area (poster)	Chase Roe, Amy Bauer	9:00/WPC Ath Rm C&LS	Is the Nuclear Pore Complex Irreducibly Complex	Alain Abedalla
1:00/WH5002 FL	Comparison of Governmental Responses to Terrorist Seizure of the Grand Mosque to the Davidian Standoff in Waco	James Garrison, Fabian Gordan-Holladay, Scott Harr Benjamin Johnston, Raymond Mockus	9:00/MH223 CME	Design & Construction of a Timber Arch Bridge at the West Point Elementary School	Chris Blackburn Tyler Scheidt
1:00/WH5006 FL	Honduran Responses to a Hurricane, a Comparative Analysis of Katrina to Mitch in Honduras 1999	Kristina Allen, Lindsey McNamara, John Senkarick Christopher Withrow	9:00/MH E Lvl CME	MAGIC (Intelligent Ground Vehicle)	Trenton Burgess, Andrew Ellison, Daniel Mahoney, Keith Phelan, Gordon Thomas
1:00/WH4410 FL	Comparing the Chinese Mil. Response to the 1998 Floods w/the U.S. Mil. Response to Katrina	Wei Chou, Scott Drenzek Vinh Lee, Roland Griffith Shane Hogan	9:00/MH205 CME	Black Dart III, Team 2	Ryan Gardner, Chase Ochoa Patrick O'Donnell, William Schreiner, Thomas Stall Peter White
1:00/WH5326 G&EnE	Buoyancy Driven Flow Between Adjacent Lake Basins	Matt Hitzeroth, Mun Fan	9:00/MH B23 CME	Caliber vs. Muzzle Velocity	William Borath, Colin Scott Anthony Snipes
1:00/TH248 Math	Using Technical Indicators & Math Modeling to Predict Trends in the Stock Market	Grant Hartman	>>Below EE&CS projects on display 9:00a.m.-2:00p.m. in Athena Room of the West Pt. Club.<<		
			9:00/WPC Ath Rm EE&CS	Cell Phone Detector (Detect if there are cell phones active in a given area)	Mike Alksninis, Kurt Klingensmith, William North Walter Velasquez
			9:00/WPC Ath Rm EE&CS	Chaff (Internet traffic simulator)	Anthony Desmarais Charles Feher
			9:00/WPC Ath Rm EE&CS	Battle Beacon (Tracking Battlefield Units)	Matthew Sherburne
			9:00/WPC Ath Rm EE&CS	Software Sonar	Shawn Mosley

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>>Below	EE&CS projects on display 9:00a.m.-2:00p.m. in Athena Room of the West Pt. Club.<<	
9:00/WPC EE&CS	Ath Rm CLADE (Computer analysis system to identify messages with a common author)	David Drew, Douglas Meyer John Parlee
9:00/WPC EE&CS	Ath Rm DC-DC Battery Charger (A system for recharging several military batteries using power from a HMMWV or a civilian vehicle)	Nicholas Barry Ries Korstjens Jeremy Spruce
9:00/WPC EE&CS	Ath Rm Gibraltar (A hardware and software system designed to combat the threat of attacks on mobile devices by using their smart batteries and other registry-related indicators for attack detection and prevention)	Daniel Castle Aaron Darensburg Barak Griffin Thadeus Hickman Stuart Warders
9:00/WPC EE&CS	Ath Rm Laser Light Show	Kyle McNealy Dominick Falcon
9:00/WPC EE&CS	Ath Rm MAGIC (An inter-disciplinary engineering project [Computer Scientists, Electrical Engineers, and Mechanical Engineers] to design and build an autonomous ground vehicle)	Brian Bifulco, Matthew Hicks Rodney Johnson, Matthew Smalley, Lonnie Story
9:00/WPC EE&CS	Ath Rm Netfires (A low-cost simulation of Army missile systems that will be fielded as part of Future Combat Systems)	Brian Boyles, Humberto Nieves, Preston Lopez
9:00/WPC EE&CS	Ath Rm Optical Range Finder for Applications in the Automotive Industry (An optically based parking assistant)	Ivan Knez, Nediljko Radanovic, Juan Ramos
9:00/WPC EE&CS	Ath Rm Perimeter Defense (An integrated sensor system to monitor an area around a small military unit)	Anthony Andrews Brendon Baker
9:00/WPC EE&CS	Ath Rm Radio Frequency Identification (RFID is proof-of-concept system that will serve as a research base for using RFID technology to monitor the movement of objects within a controlled system. This project includes a security assessment of RFID technology)	Nelson D'Antonio Ernest Ling Joseph Sanfilippo
9:00/WPC EE&CS	Ath Rm Solar Power Battery Charger (A system to recharge several types of military batteries using solar power)	Mark Gerasimas Joshua Wiley
9:00/WPC EE&CS	Ath Rm Voice over Internet Protocol (An investigation of known vulnerabilities in the technology and recommendations for designing and building a secure VOIP network)	Michael Miller Michael Pitulej Vernon Pritchard
9:00/WPC EE&CS	Ath Rm Web-based Distributed Authoring and Versioning (WebDAV) (A project to create a secure system for concurrent editing of resources over the Internet. The existing WebDAV protocol is inherently insecure and not desirable for military information systems.)	Ryan Collins Daniel Stewart

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11:00/MH CME	B23 JTF-North Tunnel Closure	James Bjorkman, Matt Cyr Jeremy Jones
11:00/WH FL	4406 Comparison of Effects and Responses to the Islamist Attack on Tourists at Luxor, Egypt & the Terrorist Bombing of Oklahoma City	Alex Deep, Marc Esposito Joseph Fennell Abbie Gotschall
11:00/WH FL	5006 Chilean & U.S. Responses to a Natural Disaster, a Comparative Analysis of Katrina and the Coastal Quake of 1960 in Chile	Brian Blake, Sarah Jones Craig Nelson, Jeroen Van DerSteen
11:00/WH FL	5002 An Accident Anywhere is an Accident Everywhere: Emergency planning on the 20th Anniversary of the Chernobyl Disaster	David Canaday, Thomas Endres, Lucas Leinberger Jay Ortegon, Mark Robinson Travis Stutes
11:00/WH FL	4410 The Atypical Disaster: Drought in the Amazon	Kevin Britt, Lindsay Hankins James Isakson Joshua Stowers
11:00/WH G&EnE	6004 Environmental Security Assessment of Egypt	Melina Lee, Tom Payne
11:00/WH G&EnE	5326 Optimization of Milfoil Control Using the Herbicides 2,4-D (2,4-dichlorophenoxy acetic acid) and Triclopyr (3,5,6-trichloro-2-pyridinyl-oxyacetic acid)	Charles Grutzmacher
11:00/Bldg Law Conf Rm	606 4FI Military Commissions	Doug Bogdanowitz
11:00/Bldg Law Library	606 4FI Islamic Law and Human Rights	Alison Mulnix
11:00/Bldg Rm 401 Law	606 Extraordinary Rendition in Global War on Terror	Erik Kuytman
11:00/Bldg Rm 408	606 States' Rights to Regulate Gay Marriage	Dan Sandford
11:00/TH Math	248 Predicting Rare Events in the Intelligence Community	Patrick Brundage Matthew Fletcher
11:00/TH Math	255 FALCON Translator: Quantifying the Efficiency of an Automated Translator	Jillian Morton
11:00/LH Soc	100 Is the People's Republic of China Developing an East Asian Security Community?	Christopher Ustler
11:00/LH Soc	101 Analyzing the Military Supply Curve	Carlos Alvarez
11:15/BH Phy (Nuc En)	302 Meeting Future Army Needs—A Modular Nuclear Reactor Design Utilizing CERMET Fuel	Gabriel Lucero, Patrick Rice Andrew Gillick, Todd Wisman
11:15/MH SE	101 Are All Assaults Equal? Prioritizing Cases for Denver Assault Detectives (U.S. Air Force Academy)	Nicolas Skordas, Todd Lehman., Robert Kurpiel, Anthony Perez, Spencer Wartman

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10:30/WH6004 G&EnE	Environmental Security Assessment of Russia	Nancie Bae, Brandon Hartleben	>>Below	EE&CS project on display 9:00a.m.-2:00p.m. in Athena Room of the West Point Club.<<	
10:30/TH248 Math	Julio Rey Pastor, Mathematical Preacher	Sandra Brown	9:00/WPC Ath Rm EE&CS	Wireless Rogue Access Point Host Exploitation and Detection (WRAP-HeXD) (A system designed to find and attempt to shutdown any improperly configured or unauthorized wireless devices using the 802.11 standards in order to prevent rogue access to a network via wireless transmissions)	Tyler Steffenson Joseph Weston Andrew Wilcox
10:30/TH255 Math	Modeling Rare Homerun-Related Events: Are They Memoryless?	Daniel Parker, David Talbot			
10:30/MH103 SE	Closely Spaced Parallel Approaches in Terminal Airspace (<i>George Mason University</i>)	Abdulmalik Al-Bulushi, Narin Chau, Robert Eftekari, Ryan Graziano, Amon Tarakemeh	9:00/WH4406 FL	Comparison of the Military Responses to the Collapse of the Zeizou Dam (Syria) and Hurricane Floyd	Michael Moad, Jeffrey Hecox Stuart Imel, Jayana Gross
10:30/MH107 SE	Future Force Warrior	James Comstock, Darcy Wilson, Christopher Freeborg Brian Martinez	9:00/WH5002 FL	Comparing the Chinese Military Response to the 1998 Floods with the U.S. Military Response to Katrina	Joshua Jackson Rafael Acevedo, Justin Ramsey Hyen Hee Shin, Richard Tang
10:30/MH104 SE	Tri-Intersection Traffic Analysis (<i>U.S. Air Force Academy</i>)	Jim Staudenmaier, Andy Baydala, Brandon Westling	9:00/WH5006 FL	Colombian and U.S. Responses to an Earthquake, a Comparative Analysis of San Francisco 1989 & Colombia 1999	Jacob Massacci, Juan Castellanos, Isaac Fones, Christian Hoempler, Jessica Baker
10:30/MH105 SE	Performance Based Logistics for the Future Combat System	Layne Christopher, Ryan Slocum, Kalen Smith Scott Warnke	9:00/Bldg 600 Supt. Conf Rm FL	Comparing the Response to the Elbe Flooding 2002 and Katrina	Alexander Bertone, Kimberly Betz, Jonathen Hagen, George Hermogeno, Christopher Wood
10:30/MH106 SE	Jamjoom Manufacturing Re-Design (JMRD) (<i>George Mason University</i>)	Christopher Eastman, John Doollin, Mohameed Jamjoon, Kirill Sukhorukov Wayne Wright	9:00/WH6004 G&EnE	Security Assessment of the West Point Water Supply System	Justin Anderson, Peter Guerdan, Tim Holland, Philip Moffatt
10:30/MH108 SE	Redesign of Cadet Arms Room	Jeff Chase, Blaine Cooper Rob Davis, Victor Figueroa	9:00/Bldg 606 4FI Law Conf Rm	Megan's Law	Cory Wroblewski
10:30/MH102 SE	Preliminary Design Analysis of Dynamic Airspace Super Sectors (DASS) (<i>George Mason University</i>)	Maraea Harris, Erik Price, Sandeep Rajlawat, Ali Raza Zulma Rojas	9:00/Bldg 606 4FI Law Library	Legal Significance of Hejab in Iran	April Campise
10:30/MH101 SE	Determining the Most Severe Hazards in Army Ground Vehicle Accidents	Sarah Domme, Peter Hwang Philip Kim, Matthew Wong	9:00/Bldg 606 4FI Rm 401 Law	Establishment Clause and Prayer at West Point	Hermanpreet Grewal
10:45/BH302 Phy (Nuc En)	Meeting Future Army Power Needs—A Modular Nuclear Reactor Design Utilizing TRISO Fuel	Ryan Chang, Jude Onwaunumpke, Cameron Boyce, Ryan McDonald	9:00/Bldg 606 Rm 408 Law	Law and Literature	Andrew Pedersen-Keel
11:00/MH223 CME	SAE Design, Build, Fly	Joshua Bloom, Duane Carpenter, Philip Castaneda Drew Curriston, Nick Dewhirst, Michael Roesler Jonathan Welsh, Eric Zellers	9:00/TH248 Math	Quantum Fourier Transform and Shor's Algorithm	Ivan Knez
11:00/MH E Lvl CME	Mini Baja Competition	John Barnes, Kyle Graham Seth Green, Joshua Ladner Wesley Ogden, Joshua Ollek Stephen Reynosa, Jonathan Sauer, Colby Smithmeyer	9:00/TH255 Math	Laboratory Metrics to Support Base Realignment and Closure Efforts	Christopher Freeborg Nicole Posey
11:00/MH205 CME	Soldier Design Competition Cooling System	Michael Kim, William Lotts Brian Stoffer	9:00/LH100 Soc	Solutions, Not Slogans— The Evolution of Public Diplomacy Since 9/11	Jon Cheatwood
			9:00/LH122 Soc	Covering the Gaps in American Stability and Reconstruction Operations: A New Look at Specialization	Michael Dyer
			9:15/BH302 Phy (Nuc En)	Use of 244 CM Waste as a Burnable Absorber in Light Water Reactors	Brian Powell

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9:30/WH6004 G&EnE	Remediation Measures for Disruption of the West Point Water Supply	Andrew Bigelow, James Lakey Nick Nussdorfer, Elliot Wong	10:00/MH E Lvl CME	Soldier Design Competition—Breaching Tool	Wesley Brown, Ryan Bruner, Brian Burch
9:30/MH223 CME	A Historical, Analytical and Environmental Comparison of Two Roman Ballista Configurations	Kelly Lanternier Andrew Polashenski	10:00/MH205 CME	Evaluation of Shoreline Protection System, Seabrook, NH	Andrew Chonowski Allen Griffith
9:30/MH B5 CME	Infrastructure Assessment	Dan Orr, Jeremiah Galloway	10:00/MH B23 CME	Special People in the Northeast (SPIN) Adaptive Devices for People w/Disabilities	Daniel Brown, Kurt Goodell Sean Justi, James McCormick Adrian Gennusa
9:30/TH248 Math	Pursuit-Evasion Modeling	Ryan Slocum	10:00/WH5006 FL	Guatemelan and U.S. Responses to a National Disaster, a Comparative Analysis of the Guatemalan Mudslide of 2005 to the San Francisco Earthquake of 1989	Cesar Munoz, Adrienne Payne, Clarisa Gamino Marissa Chierichella Eric Evans
9:30/TH255 Math	Aspects of Quantum Key Distribution	Douglas Odera	10:00/WH4410 FL	French & U.S. Responses to a SASO, U.S. in Mogadishu and the French in Cote D'Ivoire a Comparison	Erin Lynch, David Martin John Riemenschneider, Eric Smith
9:30/MH107 SE	Simulation and Modeling of Inventory and Distribution	David Dunham, Michael Michael McClain, Jason McCoy, Brandon Newkirk	10:00/WH5002 FL	Perspective on Stability and Support Operations: Beslan & Waco	Jolene Ayres, Ashton Ballesteros, Robert Baughn Adam Decker, Miles Nash
9:30/MH104 SE	Design of a Meta-Model to Evaluate Models of Exposure to Insurance Risk Due to Terrorism	Kevin Beatty, Branden Farley Chad Marzec Alexander Werner	10:00/Bldg 600 Supt. Conf. Rm FL	Comparing the Response to the Elbe Flooding 2002 and Katrina	Lukasz Derda, Matthew Houston, Tracy Sessions Jacob Jordan, Adrian Koss
9:30/MH102 SE	Aviation English Language Assessment System (<i>George Mason University</i>)	Olatunji Akinyemi Moussa Doucour, Ankur Gupta, Melvin Mosley	10:00/WH6004 G&EnE	Use of West Pt. Waste Grease & Oil & Methane Production by Food Waste Fermentation to Operate West Point Government Vehicles	Amy Bauer, Mun Fan David Knox, David Winchell
9:30/MH101 SE	Casualty Assistance System Improvement Project	Thomas Gutierrez, Caleb Wells, Kevin Stramara Christopher Tanner	10:00/Bldg 606 4FI Law Conf Rm	Patriot Act	Jennifer Pascucci
9:30/MH103 SE	BRAC 2005: Comparison. Attribute Analysis and Future Reserve Component Modeling	Matthew Lee, Brian Reynolds Brad Roberts	10:00/Bldg 606 4FI Law Library	Legality of Gay Marriage	Kristen Lloyd
9:30/MH105 SE	Improving the Efficiency of the USAFA Soaring problem (<i>U.S. Air Force Academy</i>)	Jack Green, Brady Cillo George Moore Brian Gruetschow Matthew Laney	10:00/Bldg 606 Rm 401 Law	Regulation on Anti-depressants	Myra Markey
9:30/MH106 SE	Simplified Soldier Processing project (S2P2)	Peter Curley, Dave Daniels Tirzah Eskew, Edward Park	10:00/Bldg 606 Rm 408 Law	Criminal Law Jurisdiction in Iraq	Ryan Joyce
9:30/MH108 SE	Door Breaching Device	John McCaskey, Tom Cai Jared Pauling, Matt Friters	10:00/TH248 Math	Chaplain Deployment Assignment Tool	Adam Maciuba, Michael Mingler
9:30/LH101 Soc	Determining the Proper Role for Non-Citizens in Today's Army: An Analytical Review of Non Citizen Military Performance	Robert Southerland	10:00/TH255 Math	Analysis of the Cumulative Homerun Ratio	Jason Limb, Sophia Obamije
9:45/BH302 Phy (Nuc En)	Meeting Future Army Power Needs—A Modular Nuclear Reactor Design Utilizing TRIGA Fuel	Austin Clopeck, Samuel Fjellanjer, Jill Hajec	10:15/BH302 Phy (Nuc En)	Meeting Future Army Needs—A Modular Nuclear Reactor Design Utilizing Standard Fuel and Burnable Poisons	Timothy Cunningham Caleb Phillips, Brian Powell
10:00/MH223 CME	Homeland Defense Technology Center	John Chambers Lorintz Gleich Christian Mooneyham Jared Ulekowski	10:30/MH F Lvl CME	PCI Big Beam Competition	Lyle Milliman, Brian Wilson
			10:30/MH B5 CME	Performance Based Fire Engineering Research	Stefan Gerville-Reache Tyler Sorrels