



PROJECTS DAY

Promoting Academic Excellence

April 28, 2016

UNITED STATES MILITARY ACADEMY
WEST POINT.[®]

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Scan our QR Code with your Smart Phone to gain access to USMA Projects Day 2016 app!
<http://e.zwoor.com/VSX275>

ZWOOR APP - CODE: VSX275

A special thanks to the staff of the USMA Institute for Innovation and Development for their invaluable support in coordinating Projects Day 2016!

WELCOME TO PROJECTS DAY 2016

A Message from the Dean of the Academic Board

Congratulations to all Cadets participating in the 17th Annual West Point Projects Day! In my tenure as Dean of the Academic Board, Projects Day has represented the best of cadet intellect, creativity, and tenacity. The Chief of Staff of the Army, General Milly, has leveraged your work to advance the Warfighter. The TRADOC Commander is applying your work to the Army Warfighting Challenges. There is no higher compliment than seeing your work in support of your Army. Well Done!

Thank You to all of our tremendous Faculty and Staff for challenging, guiding, and mentoring your cadets to new heights. Your passion for teaching and developing future officers is so clear in each of these capstone design projects, competition projects, thesis defenses, poster displays, individual and group performances, film screenings, and presentations. How you blend your teaching with knowledge, theory, and application to topics relevant for our Army and our social world is beyond compare.

I join the cadets, faculty and staff in thanking all of our collaborators, guest evaluators and judges, students, and faculty from visiting schools. You represent the thought leaders of the Army, Department of Defense, US Government, Association of Graduates, and other highly selective colleges and institutions. The contribution of your two most important resources, time and expertise, drives all to think outside the box, tackle hard problems, and expand horizons.

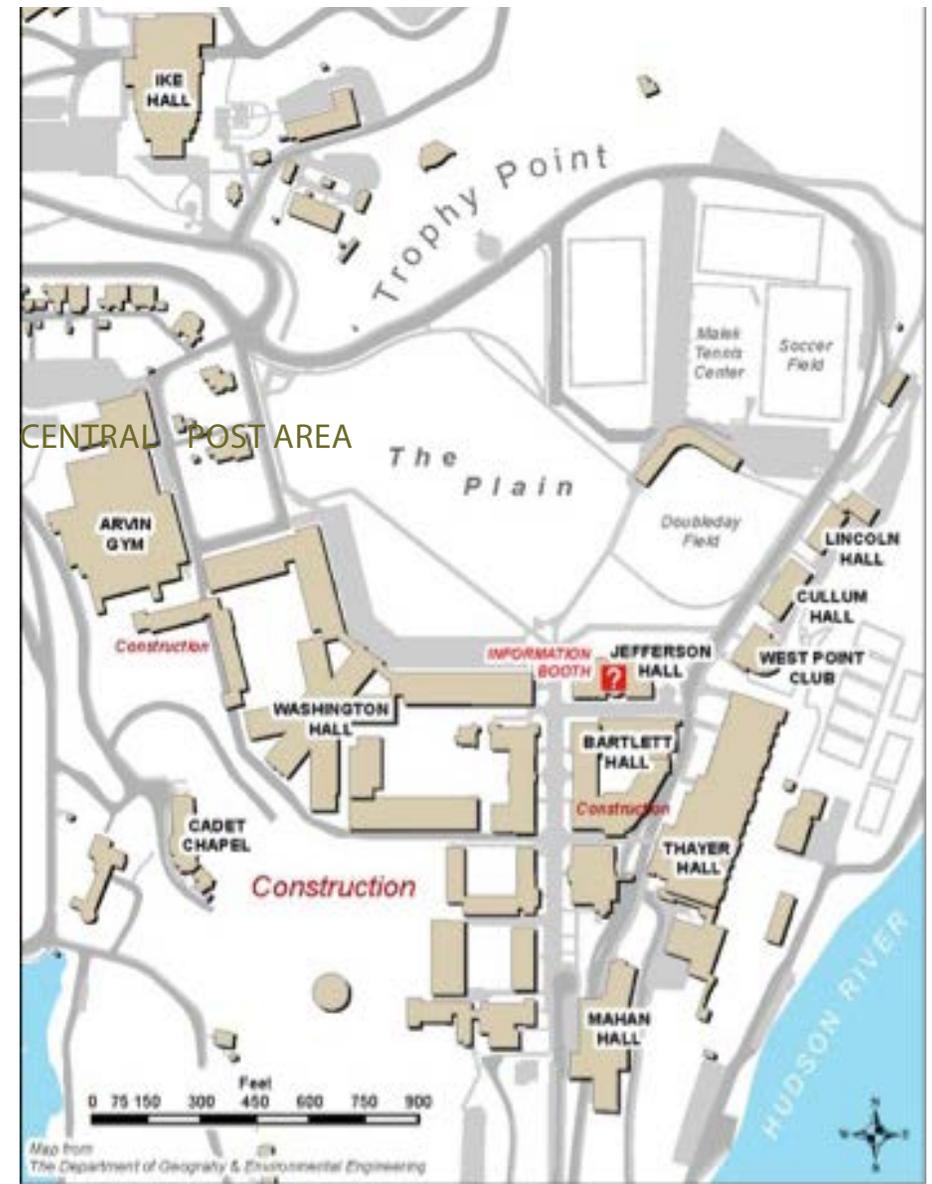
Finally, I welcome all guests attending Projects Day, especially the West Point Association of Graduates. You have made significant contributions to West Point and the Long Gray Line. Join me in celebrating the accomplishments of our cadets today. ---West Point Projects Day 2016!

Timothy E. Trainor, Ph.D.
Brigadier General, U.S. Army
Dean of the Academic Board

MAP OF WEST POINT



MAP OF CENTRAL POST AREA



PRESENTATIONS & LOCATIONS

ARVIN GYM (AG)

DPE - Dept of Physical Education, 1st floor (Lobby)

BARTLETT HALL (BH)

CLS – Dept of Chemistry and Life Science, 1st floor

PANE – Dept of Physics and Nuclear Engineering, 1st floor

BLDG 606

LAW – Dept of Law, 4th floor

JEFFERSON HALL (JH)

DSE – Dept of Systems Engineering, 4th-6th floor

LINCOLN HALL (LH)

DEP – Dept of English and Philosophy, 3rd floor

SOSH – Dept of Social Sciences, 1st floor

KIMSEY CENTER (KC)

CME – Dept of Civil & Mechanical Engineering

THAYER HALL (TH)

BSL – Dept of Behavioral Sciences & Leadership, 2nd floor

HIST – Dept of History, 1st floor

MATH – Dept of Mathematical Sciences, 2nd floor

DMI – Dept of Military Instruction, 3rd floor

WASHINGTON HALL (WH)

DFL – Dept of Foreign Languages, 4th floor

GENE – Dept of Geography & Environmental Engineering, 5th floor

WEST POINT CLUB (WPC)

EECS – Dept of Electrical Engineering & Computer Science, (ballroom)

PARTICIPANTS

The United States Military Academy welcomes students and faculty from the following universities who are participating in Projects Day 2016.

- United States Air Force Academy
- Columbia University
- Stevens Institute of Technology
- George Mason University

We also welcome students and faculty from the following schools who are visiting Projects Day and the United States Military Academy:

- United States Military Academy Preparatory School
- West Point Middle School
- James I. O’Neill High School
- Newburgh Free Academy
- Chelsea High School
- Elmont Memorial High School
- Vestal High School
- Orange-Ulster BOCES

INTELLECTUAL PROPERTY AND PATENT PROCESSING

The Armaments Research Development & Engineering Center’s (ARDEC) Patent Processing group will be on West Point for the entirety of Projects Day. Located in Jefferson Hall (JH) and the Kimsey Center, 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 an Invention Disclosure Form. This simple step will initiate the process and allow you to add “Patent Pending” to all future communications of your work.

AWARDS

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.”

Each department has the opportunity to nominate projects to compete for the award. 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.

The Walter W. Hollis Award

The Walter W. Hollis Award recognizes excellence in military operations research or systems analysis. The Hollis Award is an annual competition co-sponsored by the USMA Department of Mathematical Sciences and the Department of Systems Engineering. The award is named for the Honorable Walter W. Hollis, former Deputy Under Secretary of the Army for Operations Research, in recognition of his lifetime of distinguished service to the Army and the Nation.

The award winner is selected based on work completed at the Academy that addresses issues confronting the profession of arms. The winner is selected based upon creativity, the application of mathematics, science, & systems engineering concepts, and effective communication of their findings in both writing and oral presentation.

Each department has the opportunity to nominate projects to compete for the award. A panel of TRADOC Senior Leadership will evaluate each project and select a winner.

Army Warfighting Challenges Award

“The US Army Training and Doctrine Command (TRADOC) Army Warfighting Challenges Award is presented to the USMA Cadets whose projects best demonstrate potential solutions to support the future Warfighter.

The projects must directly support one or more of the twenty Army Warfighting Challenges ranging from Security Force Assistance to Maneuver Warfare. Each department has the opportunity to nominate multiple projects to compete for the award.

A panel of senior leaders from TRADOC and the Army’s Centers of Excellence will evaluate each faculty-recommended project and select the best projects for recognition.”

Army Warfighting Challenges and lead proponents:

1. Develop Situational Understanding: ICoE, SOCoE
2. Shape the Security Environment: MCCoE, SOCoE
3. Provide Security Force Assistance: SOCoE, CAC
4. Adapt the Institutional Army and Innovate: MCoE, AMC, ARCIC/TRADOC
5. Counter Weapons of Mass Destruction: MSCoE
6. Conduct Homeland Operations: MSCoE
7. Conduct Space and Cyber Electromagnetic Operations and Maintain Communications: Cyber CoE, SMDC
8. Enhance Realistic Training: MCCoE/CAC-T
9. Improve Soldier, Leader, and Team Performance: MCCoE
10. Develop Agile and Adaptive Leaders: MCCoE
11. Conduct Air-Ground Reconnaissance and Security Operations: MCoE and AVCoE
12. Conduct Joint Expeditionary Maneuver and Entry Operations: MCoE
13. Conduct Wide Area Security: MCoE and AVCoE
14. Ensure Interoperability and Operate in a JIM Environment: MCoE, SOCoE
15. Conduct Joint Combined Arms Maneuver: MCoE and AVCoE
16. Set the Theater, Sustain Operations, and Maintain Freedom of Movement: SCoE, AMC
17. Integrate Fires: FCoE, SMDC
18. Deliver Fires: FCoE, SMDC
19. Exercise Mission Command: MCCoE
20. Develop Capable Formations: ARCIC

<http://www.arici.army.mil/initiatives/army-warfighting-challenges.aspx>

<https://www.milsuite.mil/wiki/AWFC>

<https://www.milsuite.mil/book/groups/army-warfighting-challenge-awfc-group>

ALL BSL Presentations are located in Thayer Hall, 2nd Floor Hallway.

Appreciation and Thanks to the BSL Projects Day 2016 Sponsors:

- Army Research Laboratory (ARL)
- Bob Woodruff Foundation
- Bronx School of Law and Finance; Marble Hill School for International Studies
- Burke Rehabilitation and Research Hospital
- Department of Physical Education (DPE)
- Eximius College Preparatory High School
- Frederick Douglas Academy

- Global Action to Prevent War
- Heckscher Foundation
- Institute for Creative Technologies ICT
- In-Tech Academy
- Irvington High School
- Natick
- Nineline Foundation
- Novetta
- NY State Courts
- Volunteers of America

Time	Project
0900-1200	The Effects of Sport Subcultures on Sexism and Rape Myth Acceptance (P)
0900-1200	Effects of Sex & Race on Obedience to Authority in the Military (P)
0900-1200	Differing Stereotypes of Women in Military and Civilian Occupations (P)
0900-1200	Strengthening the Peace: Developing Resiliency in New York State Courts Officers (P)
0900-1200	Efficacy of homeless support programs (P)
0900-1200	Cadet Outreach Program: Mentoring New York Youth (P)
0900-1200	Refugee Integration (P)
0900-1200	From Uniform to Uninformed: Why Does Homeless Become Attractive Among Veterans? (P)
0900-1200	Who needs graduation?: Improving resiliency skills in high school students (P)
0900-1200	Who owns the Gametes?: The policy implications of IVF for Veterans and their families (P)
0900-1200	Dumping Peer Pressure: Instilling Personal Responsibility Among High School Students (P)
0900-1200	9 Line MEDEVAC: The Business Rescue (P)
0900-1200	Eximius Project Excellence (P)
0900-1200	Words Do Hurt Me: Peer Mediation in a Suburban High School (P)

- (P) Poster**
- (PR) Presentation**
- (D) Demonstration**

Faculty Advisor	Room	Sponsor	Cadet
Dr. Lisa Korenman		N/A	Bennett, Binkowski & Mendenhall
Dr. Lisa Korenman		N/A	Blanco & Joiner
Dr. Lisa Korenman		N/A	Rennekamp, Rivera & Rowe
COL Diane Ryan		NY State Courts	Bennett, Black, Freas & Joseph Ladd
COL Diane Ryan		Volunteers of America	Cardon, Fritz & Thomas Jacobs
COL Diane Ryan		Heckscher Foundation	Jeffers, McClain, Rothschild & Valencia
COL Diane Ryan		Global Action to Prevent War	Sampson, Danahay & Binkowski
COL Diane Ryan		Volunteers of America	Croft, Kendall & Hearn
COL Diane Ryan		In-Tech Academy	Laboda, Rennekamp & Sultan
COL Diane Ryan		Bob Woodruff Foundation	Mendenhall, Reyes & Rowe
COL Diane Ryan		Bronx School of Law & Finance; Marble Hill School for International Studies	Lester, Miller & Monsees
COL Diane Ryan		Nineline Foundation	Bishop, Proulx & Ocasio
COL Diane Ryan		Eximius College Preparatory High School	Stronach, Schurr & Majors
COL Diane Ryan		Irvington High School	Arnold, Romero & Poling

Behavioral Sciences and Leadership - BSL

Time	Project
0900-1200	Doctu Progressum (P)
0900-1200	The Relationship between Self-concealment, Type A Personality, and Help-seeking Behaviors (PR)
0900-1200	Predicting Male Help-Seeking Behavior in a Military Population (PR)
0900-1200	The Effects of Personality Factors on Ethical Decision Making Under Stress (PR)
0900-1200	Risky Decision Making in Self Verses Others (PR)
0900-1200	The Effects of Self-Talk Training and its Effect on Academic Performance (PR)
0900-1200	The Effects of Race and Images on Support for Genocide Intervention (PR)
0900-1400	Interface Design of an Intelligent Tutoring Land Navigation Program Prototype (P)
0900-1400	Comparing Impact Forces between Minimalist and Issued Boots. (P)
0900-1400	Assessing Anthropometric & Biomechanic Fit of the ACH on Female Soldiers (P)
0900-1400	ARES Sandtable: Effect of Topography on Learning Military Tactics (P)
0900-1400	Physiological Monitoring to Distinguish Expert and Novice Sky Divers (P)
0900-1400	Impact of Training Intensity on Neural Adaptation (P)
0900-1400	Linking EEG and GSR Responses to Emotional Salience (P&C)
0900-1400	Rapid Avatar: Evaluating Virtual Performance using Virtual Humans (P&C)
0900-1400	Sensoria Smart Sock Evaluation (P)
1030-1200	“Mapping Black Grassroot Resistance in Baltimore” (PR)
1030-1200	“Straight Outta Compton: Music and The Effect of Hip-Hop Preference on Cadet Ranking and Advancement” (PR)
1030-1200	“Cadet and Service Member Views on Transgender Soldiers: A Mixed-Method Approach” (PR)

(P) Poster

(PR) Presentation

(P&C) Poster and Computer

Faculty Advisor	Location	Sponsor	Cadet
COL Diane Ryan		Frederick Douglas Academy	Barone, Beggs & Hansen
Dr. Marjorie Carroll	277	N/A	Alec Fritz
Dr. Marjorie Carroll	277	N/A	Thomas Jacobs
Dr. Lisa Korenman	277	N/A	Murphy Danahy
Dr. Lisa Korenman	277	N/A	Tiara Hansen
Dr. Lisa Korenman	277	N/A	Sean Monsees
COL Diane Ryan	277	N/A	Eve Sampson
Dr. Sottolare, Dr. Rovira	Outside 274	ARL	Browning & Pleake
Dr. Rovira	Outside 274	N/A	Greif & Madza
MAJ Bell	Outside 274	Natick	Kinley & Stewart
MAJ Rowan	Outside 274	ARL	Dustin & Peasley
COL Ness	Outside 274	Natick	Maher & Madza
COL Ness	Outside 274	Burke Rehabilitation and Research Hospital	Davis & Somerville
Mrs. Pulido	Outside 274	Novetta	Odocha & Rajasegaran
Mr. DiNinni	Outside 274	ICT	de la Flor & Schultz
LTC Goss	Outside 274	DPE	Wernecke & Santiago
Dr. Ender	277	BSL	Michael Barlow
CPT Dawson	277	BSL	DaShawn May
Dr. Ender	277	BSL	Emma Spell & Charles Atkins

All CLS Presentations are located in Barlett Hall Room 106

All CLS Projects are Poster Sessions

Appreciation and thanks to the CLS Projects Day 2016 Sponsors:

Army Research Laboratory (ARL)
 Research Development and Engineering Command (RDECOM)
 Defense Threat Reduction Agency (DTRA)

Edgewood Chemical and Biological Center (ECBC)
 Medical Research and Material Command) MRMC
 Congressionally Directed Medical Research Program (CDMRP)
 Picatinny Arsenal
 United States Department of Agriculture (USDA)

Time	Project
08:30-1120	Identification of Chemical and Biological Agents through Cell-based Screening
08:30-1120	Evaluation of Antibiotic Resistance and Virulent Gene Expression of Acinetobacter Baumannii Strain 5075 Using MIC Analysis and Quantitative Real-Time PCR
08:30-1120	Cadet Nicotine Dependence Analysis
08:30-1120	Assessment of biofilm formation in Acinetobacter baumannii on various surfaces
08:30-1120	Development of a quantitative PCR technique for enumerating Staphylococcus pseudintermedius
08:30-1120	Complete cellular destruction inside Ascaris suum eggs by short-chain fatty acids amended with surfactants
08:30-1120	Inactivation of Bacillus anthracis spores by hexanoic acid amended with Tween20
08:30-1120	Efficient and cost-effective protein export system: Exporting Human Epidermal Growth Factor using the Tat secretion pathway
08:30-1120	Producing Gallus gallus EGF with E. coli
08:30-1120	Bacillus subtilis Antibiotic Biosensor
08:30-1120	The Development of Sturdy Mammalian Cell Lines: The Foundation for unique Biosensors
08:30-1120	A Bacterial-based Solution to Inflammatory Bowel Disease
08:30-1120	COLite: Bioluminating Carbon Monoxide Detector
08:30-1120	Assessing the Levels of the P11 Gene and its Association to Seasonal Affective Disorder
8:30-1120	Rheology, Modeling, and Prediction of Transient with Model Comparison
8:30-1120	Rheology, Modeling, and Prediction of Transient of Blood Using Simple Models

Faculty Advisor	Sponsor	Cadet
CPT Stephen Hummel	DTRA	Matthews, Cacho, and Ping-Medvigy
LTC Jeremy L. Goodin	USMA	Kirkland, Singh, Hegeman, and Vafides.
Dr. Sally Faith Dorfman	USMA	Kane, Crowder, Riggenbach, and Ball
LTC Melissa R. Eslinger	USMA	Moran, Isham, Zhu
Prof. Michael Labare and LTC Timothy Hill	DTRA	Crum and Hoover
Prof. Michael Labare, Michael Butkus, and Dwight Bowman	DTRA	Iwanyk, Lui, and Katalanic
Prof. Michael Labare, Michael Butkus, Dwight Bowman and LTC Jeffery Starke	DTRA	Smart
Dr. JK Wickiser	USMA	Armour, Cousens, Matthews, & Poderski
Dr. JK Wickiser	USMA	Burgos-Sanchez, Jones, and Zhan
Dr. JK Wickiser	USMA	Broderick, Dela Cruz, Husson, Johnson, & Patrick
Dr. JK Wickiser	USMA	Alindogan, Cox, Hegeman, Mulhere, & Slaughter
Dr. JK Wickiser	USMA	Carnegie, Dang, Fullmer, Smart, Vafides
Dr. JK Wickiser	USMA	Greene, Kenagy, Lee, Roth
Dr. JK Wickiser, Dr. KJ O'Donovan	MRMC-CD-MRP	Matsas
LTC Matthew Armstrong	USMA	Clarion
LTC Matthew Armstrong	USMA	Monteferrante

All CLS Projects are Poster Sessions

Time	Project
0830-1120	Fingerprinting Blood with Large Amplitude Oscillatory Shear (LAOS), and UD -LAOS
0830-1120	Determining the Gamma Protection Factor of a 2'x2'x2' Armored Box Using an Anthropomorphic Phantom
0830-1120	Improvised Armaments: Team Heat
0830-1120	Design, Construction & Testing of a Bench Scale System to Evaluate Novel Catalysts for the Conversion of Waste-derived Syngas to Liquid Fuels
0830-1120	Developing a Chemical Engineering Business: Chocolate
0830-1120	Chem-E-Car Design Project
0830-1120	Biomediated Nanocluster Synthesis
0830-1120	Filtration System for Protective Mask
0830-1120	Flexible Carbon Nanotubes
0830-1120	Pyrotechnics Technology and Prototyping Division
0830-1120	Role of Acetylcholinesterase in Differentiation and Proliferation of Mesenchymal Stem Cells
0830-1120	Design and Synthesis of Caged Neurotransmitters
0830-1120	Remediation of RDX Contamination by Sodium Persulfate
0830-1120	Detection of Explosives on Surfaces with UV Raman Spectroscopy: Effect of Substrate Color
0830-1120	Investigation and selection of inert substitutes for the energetic content of munitions in High Energy Laser Effects Research
0830-1120	Method Development and Verification for Glucose and Fructose Determination in Ugandan Primate Diets
0830-1120	The Development of a Catalytic On Water Wittig Reaction Protocol
0830-1120	Vauquelin Salt Templated Nanotube Synthesis
0830-1120	Biotemplated Nanowire Electrodeposition
0830-1120	Modeling Algae Biofuel Production in Expeditionary Environments
0830-1120	Personal Low Cost Radiation Detector
0830-1120	Graphene Synthesis
0830-1120	Catalytic Hydrogen Storage and Fuel Cells

Faculty Advisor	Sponsor	Cadet
LTC Matthew Armstrong	USMA	Helton
MAJ Decker	DTRA	Ju Ha
LTC Bull	Picatinny Arsenal	Comidy; L'herault
Dr. Russ Lachance & Dr. Andy Biaglow	USMA	Schurr
MAJ John Belanger	USMA	Peck
MAJ John Belanger	ECBC	Browning ; Caid-Loos ; Ernst; Hogg
AIAD	ECBC	Beougher
AIAD	ECBC	Caid-Loos
AIAD	ECBC	Mondesir
AIAD	Picatinny	Aaron
AIAD	ECBC	Pak
LTC Comitz	ARL	Jones & Zhan
Dr. E. M. Kowalski	ARL-ARO (Photonics Research Center) RDECOM-ARL	Armour
Dr. N.F. Fell, Jr.	ARL-ARO (Photonics Research Center)	Patrick
Dr. N.F. Fell, Jr.	USMA	Huffman and Lamb
Dr. Dawn E. Riegner	USMA	Johnson, Alindogan and Konarik
MAJ Lucas Fallot	USMA	McNiffe, and Huh,
COL John Burpo	ARL	Barclay & Bui
COL John Burpo	ARL	Neild & Mulhere
COL John Burpo	USMA	Stewart, Hoyt & Combs
Dr. Washington	USMA	Sauter
Dr. Washington	USMA	Schwartz & Yoon
Dr. Washington	USMA	Fitzgerald & Lister

Civil & Mechanical Engineering - CME

**All CME Projects are Presentations, located at Kimsey Center.
Appreciation and thanks to the CME Projects Day 2016 Sponsors:**

Aero Flight Dynamics Directorate (AFDD)
Air Force Research Laboratory (AFRL)
Armament Research, Development and Engineering Center (ARDEC)
Army Research Lab (ARL)
ARL HRED, DARPA, DoD CPO

Balfour Beatty (BB)
Boeing Aircraft Manufacturing Company (BAMC)
MIT/Lincoln Labs (MIT/LL)
Natick Soldier Research Development and Engineering Center (NSRDEC)
Program Executive Office (PEO) Ammo
Program Executive Office (PEO) Aviation
Tank Automotive Research and Development Center (TARDEC)
PM AGSE,
PM Bridging

Time	Project
0730-0800	Localized Ground Penetrating Radar
0730-0830	Improvised Capabilities ★
0730-0800	Quadrotor Performance Analysis
0730-0800	Hip Actuator
0730-0825	Concrete Canoe
0730-0825	Community Pool Facility: Bieger & the Boys
0800-0830	Corrosion Challenge
0800-0830	VTOL Perch
0800-0830	Warrior Web Exosuit
0825-0920	ASCE Steel Bridge
0825-0920	Community Pool Facility: 5th Edition
0830-0900	Fast Rope Descent System
0830-0900	Environmental Training Round
0830-0900	VTOL Swarm
0830-0900	Soldier Cooling
0900-0930	Aviation Wash Rack 
0900-0930	ABV Turnbuckler
0900-0930	Print, Assemble and Fly
0900-0930	Wearable Control for Ground Robots

★Attendance limited to DoD and contractors only

 Green Energy Project

Faculty Advisor	Room	Sponsor	Cadet
LTC Norberg, LTC Root	Nowak	MIT/ Lincoln Labs	Baumeister, Martin & Sedy
Dr. Tamm	Blanchard	ARDEC	Sandifer, Morsch, Raimondi, Schillaci, Schultz, Fritz
MAJ Pafford	Davis	PEO Aviation	Lipshutz & Denison
Dr. Rogers	Dawkins	DARPA	Bellet, Kushnak & Holder
CPT Gleich	Skybox 1		Archibeque , Coleman, Grady & Kiesewetter
LTC Wambake	Skybox 4		Bieger, Heller, Richardson & Wagner
Dr. Dieble, Dr. Rogers, MAJ Walker	Nowak	DoD CPO	Altamarano, Del Angel & Batdorj
LTC Root, LTC Korpela	Davis	TARDEC	Solomon, Reisweber & Yoon
Dr. Freisinger, Dr. Zifchock	Dawkins	ARL HRED	Hamming, Long, McGivney & Boeckmann
MAJ Biggerstaff	Skybox 1		Imelio, Kobylski, Naifeh, Tyer & Weiland
LTC Wambake	Skybox 4	Balfour Beatty	Murray, Al-Hanzab, Feliz,Parker
MAJ Fox, LTC Benson	Nowak	AFRL	Harkins, Hoffman & Kim
Dr. Hampton	Blanchard	ARDEC	Niccum, McPherson & Bates
COL Van Poppel, Mr. Howett	Davis	BOEING	Bequette, Seuk,Thomas, Sellers, Dowd & Finnane
Dr. Arnas	Dawkins	NSRDEC	Kerwin,Culver & Bascomb
LTC Melnyk, COL Meyer	Nowak	PM AGSE	Senft, Sproul, McLaughlin &Were
LTC Norberg	Blanchard	PM Bridging	Ungerman, Claywell & Lee
MAJ Hoyer, CPT Brown	Davis	NSRDEC	Miller, Lundstrom, Banarhall
MAJ Walker	Dawkins	TARDEC / ARL	Wan, Yang & Kappner

Time	Project
0920-1015	PEO Ammunition: Holston
0920-1015	Sprint Football Facility: Men at Work
0930-1000	SIP-Hut 5.0 
0930-1000	Mortar Magneto
0930-1000	VTOL Subterranean
0930-1000	Torso-Borne Load Redistribution
1000-1030	ASCE Steel Bridge
1000-1030	40mm No Spin
1000-1030	Dropsonde
1000-1030	High Maneuverability Airframe
1015-1110	Big Beam
1015-1110	Sprint Football Facility: XINGUS
1030-1100	UHPC
1030-1100	Blank Firing Adapter
1030-1100	Counter UAV
1030-1100	Magnetic Resonance Thermometry
1100-1130	PEO Ammunition: Radford ★
1100-1130	Rail ATV
1100-1130	VTOL Weaponization
1100-1130	Assistive Technology
1110-1200	UHPC
1110-1200	Sprint Football Facility: Flash Con
1130-1200	PEO Ammunition: Holston ★ 
1130-1200	Reduced Recoil
1130-1200	Rotary Wing Flow Control
1130-1200	Team SENSational

★ Attendance limited to DoD and contractors only
 Green Energy Project

Faculty Advisor	Room	Sponsor	Cadet
LTC Quadrato	Skybox 1	PEO Ammunition	Callahan, Koerper, Niichel, Clark & Baker
COL Hanus	Skybox 4	ODIA	Choi, Harrison, Tardieu & Volk
COL Meyer, Mr. Howett	Nowak	NSRDEC	Ricciardi, Jaedicke, Hurlbut & Matsumoto
LTC Keena	Blanchard	ARDEC	Kaled, Berkman & Choi
LTC Root	Davis	NSRDEC	McNally, Bisodeau & Carbone
Dr. Zifchock, Dr. Freisinger	Dawkins	NSRDEC	McNeill, Boone & Stephenson
MAJ Biggerstaff	Nowak		Imelio, Kobylski, Naifeh, Tyer & Weiland
CPT Curriston	Blanchard	ARDEC	Binkley, Ritter & Showman
LTC Root	Davis Dawkins		McDonald, Corona & Grochowski
LTC Benson, Dr. VerHulst, COL VanPoppel	Skybox 1	ARL	Youn, Livingston & Waugh
CPT Milliman	Skybox 4	NSRDEC	Chansuk, Mancini & Toth
COL Hanus	Dawkins	ODIA	Auten, McCrum, Pitman & Richards
CPT Gleich	Nowak	PEO Ammunition	Buan & McLane
LTC Keena	Blanchard	ARDEC	Schmidt, Reeves & Dailey
MAJ Pyant, CPT Curriston	Davis	ARDEC	Langer, Berard & Park
LTC Benson, Mr. Owkes, COL VanPoppel	Dawkins	AFRL	Spirnak, McQuirter, Samland & Tremont
Dr. Bristow	Nowak	PEO Ammunition	Ringleman, Loudon & Morrow
LTC Keena	Blanchard	ARDEC	Herschberger, Simpkins & Ives
CPT Brown	Davis	ARDEC	Geiger, Schwartz & Gothard
COL Boettner, MAJ Fox	Dawkins		Westrom, Sheikh & Matchoumboud
CPT Gleich	Skybox 1	PEO Ammunition	Buan, McLane
COL Hanus	Skybox 4	ODIA	Phillips, Deets, Escobar & Fahn
LTC Quadrato	Nowak	PEO Ammunition	Callahan, Koerper, Niichel, Clark & Baker
MAJ Hoyer, LTC Gash	Blanchard	ARDEC	Meyer, Hargin & Milke
MAJ Pafford, Mr. Owkes	Davis	AFDD	Zamora, Lodge & Walsh
Dr. Zifchock	Dawkins		Parker

Electrical Engineering & Computer Science - EECS

All EECS Presentations will be located in the West Point Club, Ballroom

All EECS Projects are Poster Sessions

Appreciation and thanks to the EECS Projects Day 2016 Sponsors:

Army Research Development and Engineering Center (ARDEC)
 Army Research Laboratory (ARL)
 National Security Agency (NSA)
 MIT Lincoln Laboratory (MIT/LL)

CERDEC's Intelligence and Information Warfare Directorate (I2WD)
 National Reconnaissance Office (NRO)
 Tank Automotive Research and Development Center (TARDEC)
 Tm Picatinny

Time	Project
0830-1130	ARIBO-Industrial Hygiene
0830-1130	Author Attribution
0830-1130	Black Hat Risk
0830-1130	Black Knight II
0830-1130	Cyber Defense Exercise
0830-1130	Demon Eye
0830-1130	Distributed Common Ground Station-Army
0830-1130	Graceful Labeling
0830-1130	Intelligent Ground Vehicle Competition
0830-1130	LA Hacks
0830-1130	Hybrid Tactical Power Grid 
0830-1130	Real-time SmartGrid Analysis
0830-1130	The REDHAWK Endeavor
0830-1130	RFID Property Database
0830-1130	Vertical Take-Off and Landing-Intelligence (VTOL), Surveillance, and Reconnaissance (ISR)
0830-1130	Vulnerable Web Server (VWS)

Faculty Advisor	Sponsor	Cadet
LTC Korpela, MAJ Larkin	TARDEC	Foster, Junjulas, Shablom, Skillman, Yin
Dr. Matthews	NRO	Jenkins, Lacey, Lee, Panto
LTC Nix	NSA	Eagen, Favreau, Humelsine, Johnson, Su
LTC Burrow	MIT/LL, NRO	Clark, Connolly, Eichenberg, Ireland, Jaksha, Kong, Mann
MAJ Petullo	NRO	Bissar, Herrling, Hoel, Koehlmoos, Moynier, Thorpe
LTC Ingold, LTC Souhan	ARDEC	Fagerland, Graves, Okorn, Shares, Zeidler
Dr. James, LTC Lanham, LTC Harvie	I2WD	Garriott, Ricker
Dr. Okasaki	NRO	Jones, Lass, Nosco, Smola
Dr. Hanlon, LTC Korpela, MAJ Larkin	TARDEC	Hansing, McGill, Oberholtzer, Schneider, Tazioli, Woodruff
LTC Chewar	Tm Picatinny	Graham, Park, Rabalais, Suh, Williams, Yan
Dr. St. Leger	Tm Picatinny	Barker, Davenport, Kabiri, Malcolm, Zepeda
CPT Spruce, Dr. St. Leger	ARL	Chamberlen, Hwang, Luciani, Parros, Russell, Sawhney, Shmel
LTC Finocchiaro	NSA	Chiu, Cho, Fox, Kane, Palowitch, Treiberg & Weidman
Mr. Dick, LTC Lanham	EECS	Bell, Brown, Clamp, Cross, Giovannelli, Sung
LTC Korpela, MAJ Larkin	TARDEC	Chen, Karmidzhanov, Lail, Marlar, Watson
LTC Finocchiaro	NRO	Cavender, Dalme, Eman, Jenkins, Morrone, Robison

Green Energy Project

Time	Project
0900-1100	Academy Idol Finals
0930-1100	<p>English Theses Defense</p> <p>”Knowledge Gained: The Evolution in Knowledge from Paradise Lost to Paradise Regained”</p> <p>”Postmodern Ghazals: Poetry in Contemporary Iran”</p> <p>”No End to War: Ireland’s 80 year Struggle to Memorialize WWI”</p> <p>“The Joyce Nation: How Ulysses Redefined Modern Nationalism”</p> <p>”For Want of a Woman’s Voice: Jane Austen, Charlotte Bronte, and Nineteenth Century Gendered Subjectivity and Narration”</p> <p>”The Dark Mark and the Swastika: An Exploration of Nazi Influence on J.K. Rowling’s Death Eaters in the Harry Potter Series”</p> <p>”Fembots and Feminism”</p>
1100-1230	<p>Philosophy Theses Defense</p> <p>”Negating Education: Applying the Hegelian Dialectic to the Philosophy of Education”</p> <p>”Care and Post Bellum Ethics”</p> <p>”The Army Ethic and the Greater Moral Narrative”</p> <p>“Stop Talking About Character: How Moral Psychology Can Make Us Better People”</p> <p>”Opportunity in a Just Society”</p>
1130-1300	<p>Film & Film Theory Presentation</p> <p>”The Business Man,”</p> <p>”Psyche,”</p> <p>”Unresolved,”</p> <p>”Unsolved,”</p> <p>”American Justice”</p> <p>”A Ticket In”</p> <p>”An Oyster for Joey”</p>
1330-1430	<p>“Cadet Fine Arts Forum Building Grand Opening” (CFAF)</p> <p>“With remarks by COL (R) Gadson”</p>

Faculty Advisor	Location	Cadet
CPT Kristen Johnson,	Thayer Hall Robinson Auditorium	Ghironzi, Hall,Huang, Iwuagwu, Jackson, Johnson, Minter & Stahl
COL John Nelson	Thayer Hall Room 341	Matson Hinds Bitner Feinman Garner O’Connor Riford
LTC Michael Saxon	Thayer Hall Room 345	Velez Andersen Malcom Kolling Kreitenberg
COL John Nelson	Robinson Auditorium	Bitner, Bryant, Jang-Milsten & McDonald James Comer, DiUlus, Gottlieb, Gunderman, Hout, Mok and Momberger. Girardot, Hinds, Kanzari, Malcom, and Moore Anderson, Bender, Blindauer, and Funderburk Gorsuch, Kennedy, Le, Lesser, Holden, and Riford Glasgow, No, Rennekamp, Campbell, O’Connor, Riford & Garner Reed, Yun, Emsley, Syed, Ruppel, Thorn, Cappo
COL David Harper	@ Trophy Point	Academy Idol Winners Will Perform

Foreign Languages - DFL

All DFL Projects are Presentations and are located in Washington Hall.

Time	Project
0800-0900	Marginalization of French Muslims and how it has Affected ISIL Recruitment and Radicalization
0900-1000	The Role of Propaganda in Russian Military Operations: Ukraine Case Study
0900-1000	The Refugee Crisis: Reshaping Germany's Role in the World
0900-1030	Chinese Influence on Sub-Saharan Africa
0900-1100	A vida com Português depois da West Point
0900-1100	"The Socio-Economic Causes and Effects of Illegal Latin-American/US Migration"
1000-1100	Cross-Cultural Aspects of Criminal and International-Operational Law in the context of Afghanistan
1000-1100	Russian Foreign Policy in the Near Abroad
1030-1130	Chinese People's Liberation Army (PLA) Military-Cultural Reformation of the Officer Corps
1300-1345	"In Search of a Sustainable Solution": A Policy Recommendation Regarding the So-called Islamic State.
1300-1400	Big Data Sentiment Analysis on Chinese Social Protest Movements: Hong Kong's Umbrella Movement and Taiwan's Sunflower Movement
1300-1430	Chinese Pollution and the way ahead
1345-1430	The PKK and its Struggle for Sovereignty
1430-1515	Countering the ISIS Narrative, a Policy Recommendation
1515-1600	A Policy Recommendation Concerning the Palestinian Israeli Conflict

Faculty Advisor	Language	Room	Sponsor	Cadet
MAJ Charlie Parsons & CPT Ky Fehlbaum	French	4319	DFL	Hill, Miller, Morin, Zhao & Well
CPT Clayton Merkley	Russian	WH4407	DFL	Adams, Finley, Peasley & Spees
COL Mark Gagnon	German	4003 (Red Reeder Room)	DFL	Boorman, Hester, Johnson, Kramer, Schreurs, & Vaughan
MAJ Frank Kessler	Chinese	4317	DFL	Neise, Beasley, Shin & Cerasulo
Dr. Rebecca & Jones-Kellogg	Portuguese	DFL Auditorium	DFL	Bajuz, Dodd, Efaw, Finney, Hodges, Kim & Wilder
Dr. Jon Steigman & Dr. Robert Cameron	Spanish	WH4406	DFL	Schneider-Cuevas, Jones, Caid-Loos, Nuttall & Tetro
Dr. Amir Irani-Tehrani	English and Persian	WH4410	DFL	Timothy J. Lynch
MAJ Mark Dickinson	Russian	WH4315	DFL	Mills, Gardner, Hill, Hollist & Trainin
MAJ Angel Robles	Chinese	4317	DFL	Lee, Smith & Blatnik
LTC Greg R. Mitchell	Arabic	DFL Auditorium	DFL	Johnson, Kovaka, Stacy & Stanley
LTC E. John Gregory	Chinese	WH 5002	DFL	Jinny Yan
MAJ Frank Kessler	Chinese	4317	DFL	Maddox, Young & Phung
LTC Greg R. Mitchell	Arabic	DFL Auditorium	DFL	Brown, Davis & Morris
LTC Greg R. Mitchell	Arabic	DFL Auditorium	DFL	Dunn & Hall
LTC Greg R. Mitchell	Arabic	DFL Auditorium	DFL	Ross

Geography & Environmental Engineering - GENE

All GENE Projects will be held in Washington Hall, Room 5300

All GENE Projects are Posters

Appreciation and thanks to the GENE Projects Day 2015 Sponsors:

DASA Kidd
Natick Labs
National Geospatial Intelligence Agency

National Security Agency
PEO Ammo
US Forest Service

Time	Project
0900-1130	GPS Signal Strength As A Function Of Tree Canopy Closure
0900-1130	Near-Real Time Modeling of Geolocation with JavaScript
0900-1130	A Gendered Lens on Urbanization in Uganda
0900-1130	The Geographic Patterns of the Chinese Black Market Blood Trade
0900-1130	Predicting Political Stability in Ethiopia Using Demographics as Indicators
0900-1130	An Informal Future: Considerations for Growth in Kampala
0900-1130	Who Went Where? A Look at the Migration Flows of Bosnians Post-1990s
0900-1130	Indoor Air Quality Investigation of a Deployable Low-Energy, High-Performance Building 
0900-1130	Bench-scale Investigation of Waste to Energy at Morgan Farms 
0900-1130	Bench-scale Investigation of Waste to Energy for a Military Working Dog Facility 
0900-1130	Waste-to-Energy System Design at Morgan Farms
0900-1130	Waste-to-Energy System Design for a Military Working Dog Facility
0900-1130	Water Reuse for Irrigation at West Point, NY
0900-1130	Design of New Outfall System for Camp Buckner Wastewater Treatment Plant
0900-1130	Mess Hall Waste-to-Energy: Integration of Food Waste into New Wastewater Treatment Plant Digesters 
0900-1130	Optimization of Wastewater Treatment at USMA Transportation Motor Pool
0900-1130	Moisture Harvester Design
0900-1130	Soil Contamination Study
0900-1130	Energy Security Literary Review 

Faculty Advisor	Sponsor	Cadet
LTC Edson	National Geospatial Intelligence Agency	Eckstrom
LTC Oxendine	National Security Agency	Phillips & Ketcham.
Dr Amy Krakowka	N/A	Bray
Dr Amy Krakowka	N/A	Kang
Dr Amy Krakowka	N/A	McGinty
Dr Amy Krakowka	N/A	Myers
Dr Amy Krakowka	N/A	Zajimovic
LTC Dacunto & MAJ Koban	Natick Labs	Javan
LTC Dacunto & CPT Zgonc	N/A	Ezerins & Combs
LTC Dacunto & CPT Zgonc	N/A	Palmer
LTC Dacunto	N/A	Ezerins, Combs, Firebaugh, & Setter
LTC Dacunto	N/A	Palmer, Simonds & Mangus
LTC Dacunto	N/A	Javan, Howell, Brown, & Tekippe
LTC Dacunto	N/A	Doran, Meyer, Valencia, & Diddams
LTC Dacunto	N/A	Deddo, Fisher & Lay
LTC Dacunto	N/A	Redmond, Suzuki, Fernquist & Hinrichsen
Dr. Michael Butkus	N/A	Redmond
LTC Smith	D/GENE	Gilbertson
LTC Smith	DASA Kidd	Javan

All GENE Projects will be held in Washington Hall, Room 5300

All GENE Projects are Posters

Time	Project
0900-1130	A Comparison of Post-Forest Fire Treatment Techniques and Natural Succession in Mixed Conifer Communities of the Gila National Forest, New Mexico
0900-1130	Feathered Friends or Foes: The desirability and feasibility of implementing further management techniques against Canada geese visiting the Apron at West Point
0900-1130	Geospatial Comparison of African and Non-African City Road Coverage
0900-1130	The Feasibility of Vertical Farming in Tropical and Sub-tropical Megacities: Hawai'i
0900-1130	Effectiveness of Xylem Filtration in Austere Environments and Emergency Situations
0900-1130	Bioremediation of Army Ammunition Plant Wastewater using Partial Denitri-fication
0900-1130	Analysis of Chinese Aviation Fuel Infrastructure
0900-1130	Analysis of North Korean Fuel Imports

Faculty Advisor	Sponsor	Cadet
Dr. Marie Johnson	US Forest Service	Ellison
Dr. Marie Johnson	N/A	Pieringer
Dr. Marie Johnson	N/A	Marks
Dr. Marie Johnson	N/A	Hyde
Dr. Marie Johnson	N/A	Diddams
Dr. Michael Butkus, LTC Starke, MAJ Rogers	PEO Ammo	Meyers & Valencia
LTC Oxendine	National Geospatial Intelligence Agency	Miller, Cruz, Decoteau, Marks, Whitaker & Wolfe
LTC Oxendine	National Geospatial Intelligence Agency	Celona, Trainor, Coe, Eisiminger, Martino & Ziegler

History - HIST

All History Projects are located in Thayer Hall.

Time	Project
0900-0930	Normandy Staff Ride (PR)
0930-1000	The American Evacuation of Saigon - 1975 (PR)
1000-1030	Balkans Staff Ride (PR)
1030-1100	The Force of Conversion: the Christianization of Viking Scandanavia (PR)
1100-1130	The Commonwealth War: Imperial Tunneling Companies and British Operations, 1914-1918 (PR)
1130-1200	Henry Wilson's War: The Director of Military Operations who led Britain's March to the Great War (PR)
1300-1330	Researching the War of 1812 in the Canadian Archives (PR)
1330-1400	Newburgh: The Fall of an 'All-American' City, 1952-1980 (PR)
1400-1430	Changing Tides of Egyptian Hydro-Hegemony (PR)
0900-1000	Army in Transition: Junior Officers on Reform in the Era of Elihu Root (TD)
1000-1100	The Syrian Revolution of 1925: A Gramscian Redemption (TD)
1100-1200	Establishing the Conditions for the Propagation of a Modern Iran (TD)
1400-1500	A Paper Tiger: The UN Genocide Convention and its Misuse in the US Response to Rwanda and Darfur (TD)
1500-1600	The Catholic Church and the Guatemalan Genocide (TD)
0900-1000	When Left to Their Own Devices: The Pennsylvania Line Mutiny (TD)
1000-1100	The Importance of Stony Point Reconsidered (TD)
1100-1200	Morality and Reason: Thomas Jefferson's View of Eternity (TD)
1300-1400	A Republic Divided: Pride and Partisanship in Fourth of July Toasts from 1776-1816 (TD)
1400-1500	History, Memory, and the Legendary Grahamsville Massacre (TD)
1500-1600	Party Lines Drawn One Drink at a Time: The Political Messaging of the Alien and Sedition Acts through Fourth of July Toasts (TD)

Faculty Advisor	Room	Cadet
CPT Smith, CPT Hope, LTC Black, Dr. Roberts	158	Conrow & Weisser
MAJ Romaneski	158	Hoffinger
Dr. Frey, MAJ Drohan	158	Wethman & Gjonaj
MAJ Barker	158	Johnson
MAJ Barker	158	Blankenbeker
MAJ Barker	158	Reidler
Prof. Stapleton	158	Mahoney
MAJ Sjursen	158	Gatti
Dr. Frey	158	Moore
MAJ McGovern	160	Latshaw
MAJ Drohan		Valencia
Prof. Hosein	160	Rapone
MAJ Drohan	160	Valencia
Dr. Frey	160	Gabow
MAJ Sculley	127	Walkup
MAJ Sculley	127	Murphy
Prof. McDonald	127	Franklin
Prof. McDonald	127	MacSwan
Prof. McDonald	127	Steiner
Prof. McDonald	127	Thompson

(PR) Presentation
(TD) Thesis Defense

Department of Law - Projects Day 2016

West Point Center for the Rule of Law

4th Floor, Building 606 (Admissions Building)

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

Mike Boulegeris, Mrs. Dan FitzGibbon, Marsh McLennan, Dawn Rucker, Paul Mango,
Latham & Watkins LLP, the Hearst Corporation, USMA Class of January 1943,
Department of Law Alumni

All Events held in the West Point Center for the Rule of Law

0800 Cadet Benjamin Andrews

“CIA, JSOC, or Both? Framing the Title 10 and Title 50 Dilemma and Evaluating
Operative Authority for Controllers of Remotely Piloted Aircraft “
Thesis Advisor: LTC Shane Reeves

0845 Cadet Eric A. Fenton

“The Federalist Papers: Rolling out a Joint Effort of Marijuana Regulation”
Thesis Advisor: LTC Wendy Cox

0930 Cadet Josh Bell

“Adjusting to a ‘Hybrid’ World: How to Apply the Law of Armed Conflict to Hybrid Wars
using Syria as a Case Study”
Thesis Advisor: COL Dave Wallace

1030 The Center for the Rule of Law Presents 2015 AIAD’s:

War Crimes Staff Ride: Cadets travel to Europe for a first hand recounting of the investi-
gation and prosecu-tion of War Crimes in the former Yugoslavia. OIC—LTC Matt Kemkes

Kimsey Foundation: Cadets are provided with the opportunity to interact, on a personal
level, with some of the most accomplished leaders in the United States. OIC—Professor
Mark Wellman

San Remo/Clara Barton: Cadets participate in simulation-based experiential legal
competitions designed to expose and educate them to the practice of International
Humanitarian Law. OICs—MAJ (P) Pat Grant and LTC Matt Kemkes

Roundtable Discussion: Civil Rights in America 2016: The program will also include the
naming of the 2016 Archbishop Iakovos Scholar, and recognition of the 2013 (Inaugural)
Civil Rights Staff Ride Cadets from the Class of 2016. OIC—Dr. Robert Goldstein

Cadet AIAD Participants:

Civil Rights: Cadets Kiley Schreurs, Erica Macswan, Ian Mauldin, Adam Jimenez,
Dominic Gatti, Nathan Town-send, Adam Reynolds, Michelle Golonka, Leah Tonetti,
Jazzmyn Miller, Lance Baggett, Gabriel Bann, Jason Hug, Morgan Landers, Madeline
Huggins, Alex Combs, Maria Kruegler, John Lowe, Baxter Hodge, Otuoze Baiye,
Made-leine Suba, Tobey Yates, Whitney Gunderman, Ashley Salgado-Padin, Neon
Stern

War Crimes: Cadets Paige Vallejos, Daniel Fullmer, Ivellisse Velez, and Jacob
Williams

Kimsey Foundation: Cadets Jessica Beatty, Ian Holbrook, Katlin Meyer, Christian
Nattiel, Luke O’Neill

San Remo: Cadets Benjamin Andrews, Eric Fenton, Calvin Stokes, Bailey Widman
Clara Barton: Cadets Paige Vallejos, Mickey Briggs, Madison Daugherty

1250 Law 495 Capstone Event: Cadets Peter Basnight, Calvin Stokes, Brock
Davidson, Bailey Widman, Eric Fenton Bryan Wolak, Ciara Jackson, Dwayne Malone,
Joseph Pervall, Austin Roehl, Lyone Velez Segarra, Justin Joiner, Ian Bedo, Matthew
Pope, Michael Mcfadden, Spence Ellis.

Capstone Course Professor: LTC Michael Kramer

1500 West Point Speech Team Demonstration

Topic: The United States should move to a Single Payer health care system.

Cadet Debaters: Nathan Hernandez, Morgan Aiken, George Ngoh,

Robert Laval-Levy Team

Advisor: CPT Nicole Eldredge

1600 Closing Remarks—COL Dave Wallace

Military Instruction - DMI

ALL DMI Projects Day Activities are located in Thayer Hall

Appreciation and thanks to the DMI Projects Day 2016 Sponsors:

CENTCOM
 Modern War Institute
 US Army War College, Strategic Studies Institute
 Office of the Assistant Secretary of Defense for Special Operations/Low Intensity
 Conflict (ASD SO/LIC)

Chief of Staff of the Army Strategic Studies Group (CSA SSG)
 US Mission to the United Nations (Joint Staff J5 Global Policy and Partnerships)
 Brookings Institution
 Office Chief of Public Affairs (OCPA)
 U.S. Department of Energy

Time	Project
0800-0820	Unraveling the AQ Khan Network
0800-0820	Tapping Out: Why Insurgents Stop Fighting in Civil Wars (PR)
0800-0820	The Cost of Stability: Results of AFRICOM BPC Efforts in Nigeria (TD)
0800-0820	Hybrid Warfare and Asymmetrical Challenges (PR)
0930-1050	Countering Unconventional Warfare (UW) (PR) Waged against US Interests
0930-1050	Early Synthetic Prototyping and Capability Validation (PR)
0930-1050	US Contributions to UN Peacekeeping (PR)
0930-1050	The Future of Land Warfare (PR)
1100-1220	“From Social Movements to Social Media: ‘Let’s Talk Jihad’ and the New Fight against Extremism (TD)
1100-1220	Information Dominance – The Role of Social Media Throughout Military Operations (PR)
1100-1220	The Arctic Gold Rush: An Analysis of U.S. Arctic Strategy (PR)
1100-1220	Implications of using Land Forces in a Hybrid- Forgotten War- Ukraine (TD)
1300-1420	Two sides of the coin: recommendations for interaction between American Conventional Forces and Special Operations Forces (TD)
1300-1420	Conventional Forces and Special Operations Forces (TD)

(P) Poster Session
(PR) Presentation
(TD) Thesis Defense

Faculty Advisor	Room	Sponsor	Cadet
COL Collins	342	CENTCOM	Carstens, Chenowe, Connaughton & Swan
Lionel Beehner	344	Modern War Institute	Jacke, Millirons, Scott, Moore & Bunjor
MAJ Kovach	348	N/A	Charles Day
MAJ Lasiter	369	US Army War College, Strategic Studies Institute	Horejsi, Berzenye, McCormack, McIntosh & Starks.
MAJ Ferenzi	342	(ASD SO/LIC)	Duffy, O’Neill, Goff, Dutton & Wheeler
MAJ Jackson	344	Chief of Staff of the Army Strategic Studies Group (CSA SSG)	Millsap, McCallion, Mosher & Richards
MAJ Hedtke	348	US Mission to the UN (Joint Staff J5 Global Policy and Partnerships)	White, Jordan, Denehan, Moore & Lane
MAJ Phillips	369	Brookings Institution	Weece, Bourland, Dabeck, Mc-Mahon & Crowley
MAJ Ferenzi	342	N/A	Christopher Drew
CPT Kimbrell	344	Office Chief of Public Affairs (OCPA)	Downum, Mikinski, Corino & Danilenko.
MAJ Paxton	348	U.S. Department of Energy	Coutteau, Gardner, Leinen & Moler.
MAJ Lasiter	369	N/A	Schneider
MAJ Ferenzi	342	N/A	Hodge
MAJ Jackson	344	N/A	Stewart

Military Instruction

Mathematical Sciences - MATH

All Math Presentations are located in Thayer Hall, 2nd Floor
Math Hallway from 0900-1100hrs

All Math projects are Poster sessions

Project
Evaluating K-Means++ Clustering For Anomaly-Based Intrusion Detection Systems – Focus on External Threat (ST)
Improving Military Post Housing Energy Efficiency through Linear Programming (ST)
Investigating the properties of asymmetric key encryption schemes and the effects of transposing the method to different finite groups or elliptical curve space (ST) 
A Markov Chain Monte Carlo Simulation to Predict Baseball Outcomes (ST)
Strengthening and Merging Cutting Planes in Integer Optimization Problems (ST)
Statistical Analysis: Age of Diminishing Return for the Military Working Dog in Service (ST)
On invariants of filtered Jordan quiver representations (ST)
NHL Player Projection to Structure Contracts (ST)
Impact of Intra-team Salary Dispersion on Team Performance in the National Basketball Association (ST)
Using clustering techniques to detect outlier behavior by RESNET HERS Raters (ST) 
Investigating Optimal Linear Arrangement for Arbitrary Graphs (ST)
Transient Mathematical Analysis of Mass Diffusion during Laminar Two-Phase Fluid-Flow to Model Nanofiber Formation (ST)
Conducting Mathematical Analysis to track the AQ Khan Network and its Involvement in Nuclear Proliferation Activities (ST)
A Markov Chain Monte Carlo Simulation to Predict Baseball Outcomes and Baseball Bets (ST)
Predicting postseason performance in the NHL using the network algorithm PageRank (ST)
A Quantitative Market Neutral Strategy with a Unique Approach to Clustering (ST)
Implementing an Anomaly-Based Intrusion Detection System Utilizing Statistical Modeling – Focus on Internal Threat (ST)
The Future of Army Football (SC)
The United States' Response to Sputnik Era Mathematics (SC)
BetaGo: Machine Learning in Go (SC)
Statistical Impact of Steroids/PED's in Major League Baseball (SC)
Developing a New Statistic that Evaluates and Compares Basketball Players in the National Basketball Association (SC)

(ST) Senior Thesis, (SC) Senior capstone, (S) SABERMETRICS
(IE) Integrative Experience
(IE&CEM) Integrative Experience - Computational Engineering Mathematics

Appreciation and thanks to MATH Projects Day 2016 Sponsors:

North Atlantic Treaty Organization (NATO)
Core Labs, Naval Postgraduate School
National Security Agency (NSA)

Faculty Advisor	Sponsor	Cadet
MAJ Nelson & MAJ Klimkowski		Coughlan
Dr. Pulleyblank, MAJ Sullivan, MAJ Paynter		De La Rosa
MAJ Vanatta, Dr. Dungan, Dr. Bromberg		Di Nallo
MAJ Christian, Dr. Farlow, Dr. Williams		Harvey
LTC Hickman, MAJ Mogensen, Dr. Pulleyblank		Herrling
LTC Joe Lindquist, Dr. Frank Wattenberg		Hlavin
Dr. Mee Seong Im, COL Doug McInvale		Jones
LTC Watts, Dr. Pulleyblank, MAJ Lavallo-Rivera, CPT Slocum		Kozlak
LTC Mike Yankovich		Lee
Dr. Pulleyblank, MAJ Sullivan, CPT Brundage		Martinez
Dr. Pulleyblank, COL Horton, Dr. Bell		Mauldin
LTC Anthony Johnson		Phillips
Dr. Arney, MAJ Koban		Snyder
MAJ Christian, Dr. Farlow, Dr. Williams		Strobehn
MAJ Koban, Dr. Arney		Swanson
MAJ Geisler, MAJ Powell		Trainin
MAJ Nelson, MAJ Klimkowski		Tucker
LTC Charbonneau		Kim
COL Hartley		Seim
MAJ Vanatta		Weidman
MAJ Ashlie Christian		Edrington
LTC Hickman		Wilson

 Green Energy Project

Mathematical Sciences - MATH

Project
The Oriented Graceful Labeling of Snowflake Trees (SC)
Tommy John Surgery And Its Impact on Pitching (S)
Equivalence Coefficient (S)
“Broken Toys and Misfits”: A Study of the Worst Players in Baseball (S)
World Series Cardinals: A Statistical Analysis of the Best Redbirds (S)
Betting in Baseball (S)
Is Winning Contagious? The Statistical Effects Being Traded to a Winning Team in Baseball at the Trade Deadline (S)
Validating “The Most Lopsided Trades” of MLB in the Past 25 Years (S)
Traditional and Advanced Statistics in Baseball Contract Value (S)
The Effect of Infield Shifts in Baseball (S)
How Steroids Changed the Game of Baseball (S)
Manager Ejections in Baseball (S)
“Take Me Out to the Ball Game”: the Correlation Between Walk-Out Songs and MLB Hitting
Age-Performance Relationship of the Use of Steroids in MLB (S)
The Effect of Stolen Bases to Win Percentages in Baseball (S)
What is the most valuable position in baseball? (S)
- Is it really that important? (looking at left vs right hand pitchers to hitters) (S)
Terror Networks and the Use of the Dark Web (IE)
The Internet of Communication: Bringing West Point into the 21st Century (IE)
In Search of an Ethical AI: Why that Game of Go Matters (IE)
MD5 Hash collisions (IE)
Zero to Cyber Hero: Envisioning a West Point Cybersecurity Major (IE)
Network of NATO Scientists (IE)
Hybrid Control Problem (IS)
Optimizing Intelligent Walks for Dark Network Discovery (IE)
Algebraic math and Public Key Encryption (IE)
Numerical Study on Bending Body Projectile Aerodynamics (IE)
Computational Finance (IE&CEM)
Using CFD to Conduct External Ballistics Analysis (IE&CEM)
Modeling Nanofiber Formation Through CFD (IE&CEM)
Applications in Computational Fluid Dynamics (IE&CEM)
Computational Techniques for Mixing Fluids (IE&CEM)

All Math projects are Poster sessions

(ST) Senior Thesis , (SC) Senior capstone, (S) SABERMETRICS

(IE) Integrative Experience,

(IE&CEM) Integrative Experience - Computational Engineering Mathematics

Faculty Advisor	Sponsor	Cadet
Dr. Bell		Nosco
MAJ Christian		Alexander
MAJ Christian		Roche
MAJ Christian		Quinn, Eller & Delahunt
MAJ Christian		Baity & Todd
MAJ Christian		Miller & Ungerman
MAJ Christian		Barker & Jaksha
MAJ Christian		Neild, Psiaki & Strobehn
MAJ Christian		Burke & Mahle
MAJ Christian		Byrne, Llewellyn, & Wolfe
MAJ Christian		Faulkner, Kirchner & Musholt
MAJ Christian		Benagh, Clark & Hicks
MAJ Christian		Phillips & Wilson
MAJ Christian		Giachinta, Hugenberg & Young
MAJ Christian		Hlavin & Martin
MAJ Christian		Deforest & Read
MAJ Christian		Vega, Speer & Garriott
Dr. Tyshchuk		Coughlan & Strobehn
MAJ Nelson		Seim & Tucker
Dr. Arney		Kozlak, Mauldin & Wilson
Dr. Arney		Di Nallo
Dr. Thomson		Lakes
Dr. Arney	NATO	Juliano
Dr. Arney, Dr. James	NSA	Martin
Dr. Arney	CL, NPGS	Juliano
MAJ Vanatta		Edribgton, Kim & Swanson
LTC Isenhour		Youn
LTC Isenhour		Parker & Weidman
LTC Isenhour		Hlavin & Snyder
LTC Isenhour		Phillips
LTC Isenhour		McQuirter
LTC Isenhour		Spirnak & Samland

Mathematical Sciences - MATH

Project
Algebraic math and Public Key Encryption
Network Analysis of the Army Training Network
Political Connections in the Illinois House of Representatives
NCAA Football's Coaching Family Tree
Actors and Directors: Who makes the money?
Knock-Out the Rankings: A Page Rank Analysis of the Professional American Heavyweight Boxing Network
Senkaku Island Dispute: A Signed Network Analysis
Using Matlab to Determine Cut Vertices in Undirected Graphs

Faculty Advisor	Sponsor	Cadet
MAJ Natalie Vanatta	N/A	Edrington, Kim, & Swanson
MAJ Dan Koban	N/A	Chatel, McDermott & Talty
MAJ Dan Koban	N/A	Caudullo, Ives & Snyder
MAJ Dan Koban	N/A	Deforest, Silecchia & Wasserman
MAJ Dan Koban	N/A	Greenberg, Lin & Schmitz
MAJ Dan Koban	N/A	Bassett, Bell & Lindsay
MAJ Dan Koban	N/A	Caston & Baity
MAJ Dan Koban	N/A	Bryce Wilkins

All Math projects are Poster sessions

(ST) Senior Thesis , (SC) Senior capstone, (S) SABERMETRICS

(IE) Integrative Experience,

(IE&CEM) Integrative Experience - Computational Engineering Mathematics

Department of Physical Education - DPE

All Department of Physical Education (DPE) are Presentations and will be held in ARVIN GYM 1st Floor (Lobby)

Time	Project
0930-1045	The effect of shoulder Injuries on Traditional Push-up performance
0930-1045	Comparison of Muscle Activation and Force Production in the Deadlift and the Power Clean
0930-1045	Power Riser Stilt Bionics - The Effects on and the Adaptations of the Human Body

Faculty Advisor	Location	Cadet
Dr. Hewit	Arvin Gym - Lobby	Sarah Anderson (2016)
Dr. Hewit	Arvin Gym - Lobby	RK Barker (2016)
Dr. Hewit	Arvin Gym - Lobby	Chad Wisnowski (2016)

All PANE Presentations are located in Bartlett Hall, Room 174

From 0800-1100

All PaNE Projects are Poster Sessions

Appreciation and thanks to the PaNE Projects Day 2016 Sponsors:

Army Research Laboratory (ARL)

Army Research Office (ARO)

Defense Threat Reduction Agency (DTRA)

DoD High Performance Computing Modernization Program (DoD-HPCMP)

High Energy Laser Joint Technology Office (HEL-JTO)
 Massachusetts Institute of Technology Lincoln Laboratory (MIT-LL)
 National Nuclear Security Administration (NNSA)
 Oak Ridge National Laboratory (ORNL)
 Space and Missile Defense Command (SMDC)
 Memorial Sloan Kettering Cancer Center (MSKCC)
 University of Tennessee (UT)

Project
Calculation of Approximate Global Harmonic Scaling Factors for TPSS, M06, M08, & M11 Functional Families with Standard Basis Sets
Self-Assembling Monolayers for Organic Thin-Film Transistors
High Energy Laser Interaction with Filled Rotating Cylinder
Plasma Interferometry
Mobile Neutron Detector for Special Nuclear Material Detection
Fidelity Analysis of MCNP6.1
Monte Carlo n-Particle 6.1 (MCNP6.1) Code Validation for Gamma Ray Transport Across Varying Materials
Monte Carlo N-Particle Code 6.1 (MCNP6.1) Modelling of a Nuclear Forensics Alpha Box
Radiation Protection Factors
Verification and Validation of Monte Carlo N-Particle Code 6.1 (MCNP6.1) Gamma-ray Protection Factor Estimates using an Armored Box and Phantom
Food Security Following a Nuclear Detonation
Verification and Validation of NucFast Blast and Thermal Calculations
Verification and Validation of NucFast Building Effects Calculations
Analysis of Laser Induced Breakdown Spectroscopy for Post Detonation Nuclear Forensics
Comparison of Destructive Analysis Techniques for Nuclear Forensics
Thermocouple Arrays for Probing Thermal Diffusion in Rotating High Energy Laser Targets
Shock in Material as a Result of Application of Explosives
Production and Analysis of Surrogate Nuclear Debris
Building a Bridge to the Universe -or- What it Takes to Make an Observatory Operational?
Monitoring and Controlling of Automated Detector via Internet for Remote Learning
Analysis of Zero Frequency Modes for a Scalar Quantum Field Theory in Topologically Nontrivial Spacetimes

Faculty Advisor	Sponsor	Cadet
Dr. Kashinski	ARL/DoD HPCMP	Nelson
Dr. Fekete	ARO	Warfield
LTC Florence, Dr. Kashinski	ARO/HEL-JTO	Mauldin & O'Neill
MAJ Decker	DTRA	Duarte
MAJ Clark, MAJ Koch	DTRA	Mallalieu & Shannon
MAJ Decker	DTRA	Bouvier
MAJ Decker	DTRA	Sundberg
MAJ Decker	DTRA	Raffanti
MAJ Decker	DTRA	Gates & Zeigler
MAJ Decker	DTRA	Hall
MAJ Heider	DTRA	Prins
MAJ Heider	DTRA	Kokoksi
MAJ Heider	DTRA	Crabtree
LTC Schools	DTRA/ARO	Guyer
CPT Molgaard	DTRA/NNSA/UT	Bremer
Dr. Kashinski, Dr. Myers, LTC Florence	ARO/HEL-JTO	Fydenkevez
MAJ Rice	LANL	McGuire
MAJ Molgaard	ORNL	Funrock
Dr. Fekete	PaNE	Korzan, Daniel & Warfield
Dr. Moretti	PaNE	Yi
Dr. Pfenning	PaNE	Engel

All PaNE Projects are Poster Sessions

Project
Numerical Simulation of Null Geodesics to Generate Images of Gravistars in General Relativity
Modular Reactor Feasibility
Rutherford Scattering and Multi-Channel Analyzer Calibration using a Pelletron Accelerator
First Principles Derivation of the Neutron-Helium Cross Section
Neutron-Helium Recoil Track Analysis
Neutron Transmutation of a Silicon Wafer using the USMA Subcritical Assembly
Radiation Dose to Patients from kV Imaging Devices
Low-Earth Orbiting Magnetic Field Generator (LEOMFG)
A-Sphere: Radar Calibration Satellite
Detecting Cosmic Rays and Measuring UV Radiation Levels by Balloon Satellite

Faculty Advisor	Sponsor	Cadet
Dr. Pfenning	PaNE	Greer, Coughlan & Bailey
LTC Allen	PaNE	Hartford & Merkel
LTC Allen	PaNE	Bann & Shaikh
MAJ Clark	PaNE	Idrache
MAJ Clark, MAJ Koch	PaNE	Jung, Di Nallo & Jeffrey
MAJ Echeverria	PaNE	Grant
LTC Prins	Sloan Kettering	Hall, Williams & Young
MAJ Godshall	SMDC	Starke & Griffard
MAJ Godshall, Dr. Bray, Mr. Patterson	SMDC/MIT-LL	Altamirano, Jung & Hansen
Dr. Fekete & LTC Hamilton	PaNE	Mills

All SOSH Projects are located in Lincoln Hall

Time	Project
0830-0930	Federalism and National Preparedness: How does the Federal Government Ensure Local Preparedness?
0830-0930	TBD
0830-1000	Flipping Burgers or Pulling Triggers: Do Increases in Minimum Wage Affect Army Enlistment?
0830-1000	Post 9/11 Counterterrorism Legislation and its Effects on the Militia Movement
1000-1130	Legislative Entrenchment: Why Social Security has Resisted Reform
1000-1130	Are Prepsters Prepared? The Effect of the US Military Academy Prep School on Freshman Year Math Grades
1000-1130	Shell Oil by the Numbers: A Financial Statement Analysis
1000-1130	The Director of National Intelligence in Context: A Comparative Analysis of Intelligence Reform
1300-1430	Pushed Behind: Federalism and American Education Policy
1300-1430	History, Identity, and Collective Security: German and the Use of Force Post-Cold War
1300-1430	Gauging the Effect of Construction Noise and Overcrowding on Cadet Academic Performance
1300-1430	Exxon Mobile: A Financial Analysis
1430-1600	Sentence Length on Recidivism
1430-1600	Army Cyber Institute Individual Study
1500-1630	Democratic vs. Technocratic Views on Administration: Rulemaking on Sexual Health Education during the Bush Administration
1500-1630	Colloquium

Faculty Advisor	Room	Presentation Type	Cadet
Dr. Brian Dodwell	Beukema Library	Presentation	Henderson
Dr. Hugh Liebert	SOSH Conference Room	Presentation	Lipsky
Dr. Alex Smith	OEMA Conference Room	Presentation	Beckman
Dr. Arie Perliger	LHB101A	Presentation	Warnberg
CPT Brandon Archuleta	Beukema Library	Presentation	Mori
Dr. Rich Patterson	OEMA Conference Room	Presentation	Ryan
MAJ Brian Retherford	SOSH Conference Room	Presentation	Manion, Williams, Paget & Vestal
COL Suzanne Nielsen	LHB101A	Presentation	Silverman
MAJ Nate Garner	Beukema Library	Presentation	Keeling
Dr. Rob Person	SOSH Conference-Room	Presentation	Oakley
MAJ Mike Walker	OEMA Conference Room	Presentation	Oliver & Wiggins
MAJ Patrick Bell	LHB101A	Presentation	SS494 Class
MAJ Kyle Greenberg	OEMA Conference Room	Presentation	Latimer
MAJ Blake Rhoades	LHB101A	Presentation	Lundgren
Dr. Rachel Sondheimer	Beukema Library	Presentation	Parker
N/A	SOSH Conference Room	Colloquium	Faculty Colloquium with Mr. Marvin Odum

Systems Engineering - DSE

All DSE Presentations are located in Jefferson Hall

Refer to the boards posted in Jefferson Hall for up to date room numbers

Appreciation and thanks to the DSE Projects Day 2016 Sponsors:

Army Aviation & Missile Research Development & Engineering Center (AMRDEC)
CACI - Data Tactics Center for Army Analysis

Time	Project
0830-0910	Developing a Command System to Control both Human and Robotic Elements
0830-0910	Modeling a Food Distribution Network
0830-0910	Applying Value-Focused Thinking to a Make Versus Buy Decision
0830-0910	Identifying and Quantifying Critical Information Streams for Tactical Combat Decision Modeling
0830-0910	Reducing Administrative Time for Labor Reporting at Tobyhanna Army Depot
0830-0910	Tactical Situational Awareness Test (TSAT) Refinement
0830-0910	Reduction of the Visual Signature of the M4A1 Rifle
0830-0910	Design of a Streamlined Grant Proposal Development System for University Research
0830-0910	A Method of Analysis for Incidents Involving Unmanned Aerial Systems
0830-0910	A Methodology for Assessing Optimum Penetration of Power Generation and Energy Storage Technologies into the Electric Power Grid
0910-0950	Developing an Exoskeleton Test Plan for the TALOS Program
0910-0950	Soldier Power Decision Support Tool Conference Paper
0910-0950	Site Selection for Joint Logistics over the Shore (JLOTS) Operations Using Multi-Objective Decision Analysis
0910-0950	System for Corrosion Inspection and Monitoring
0910-0950	Analyzing Behavioral Effects on Situational Awareness
0910-0950	West Point Energy Capstone Initiative
0910-0950	Engineered Resilient System Life Cycle Costing Model
0910-0950	Hyperloop Pod Levitation Subsystem Testbed
0910-0950	Design of a Transoceanic Cable Protection System
0910-0950	Integrating Kinetic Energy and Directed Energy For Counter-Rocket Artillery Mortar Missions
1010-1050	Modeling and Analysis of the UH-60 Refurbishment Process at the Corpus Christi Army Depot (CCAD)

Corpus Christi Aviation Depot Defense
Threat Reduction Agency
Engineer Research and Development Center (ERDC) IETD
Lockheed Martin Corporation
Logistics Management Institute OSD-CPO
PEO Ammunition PEO C3T (RMD)
PEO Soldier – PM SWAR
Army Capabilities Integration Center (ACIC)
Tobyhanna Army Depot
USSOCOM West Point Garrison

Faculty Advisor	Sponsor	Cadet
COL Robert Kewley		Sean Crowley
Dr. Kenneth McDonald		Akers, Beck, Bartz & Castro
LTC Anthony Bianchi		Dempsey, Giachinta, Hugenberg, Barnett & Talley
LTC Gregory Boylan		Goodman, McDonald, Cho & Mullins
LTC Jose Ramirez		Hardman, Mapes, Utter & Wharton
MAJ Gregory Bew		Baker, Jimenez, Nardone & Ocasio
MAJ Paul Santamaria		McAllister, Hockenbraugh-White, Choi & Mckenrick
		Yi, Sombito, Sikka & Prindle
		Cate, Branch, Palmer & Chaudhry
		Jenkins, Tablada, Teklie & Alemayehu
Dr. Vikram Mittal		Velazquez, Martinez, Clark & Yoshizuka
LTC Paul Evangelista		Penick, Abdelkhalik, Canara & French
MAJ Christopher Green		Lami, Evans, Madarasz & Smith
MAJ Craig Brewer		de La Rosa, Alexander, Brooks, Brun, Altamirano, Batdorj, Del Angel & Deible
MAJ Gregory Bew		Nardone
MAJ Patrick Sullivan		Wu, Candelmo, Lee & Roberts
		Clark, Blash, Butler & Fleming
		Anzalone, Mehlman, Bernal, Maietti, Cao, Goldband, Umbach, Medina, B. Singer, L. Singer & Jones
		Geisler, Karra, Cardenas & Underwood
		Elkins, Cole, Franklin, Freeny & Gallagher
Dr. Eugene Lesinski		Harvey, Ritchie, McCormick & O'Brien

Systems Engineering - DSE

Time	Project
1000-1050	Architecting a Development and Testing Pan for the Army's Common Operating Environment
1010-1050	Multi-Attribute Decision Analysis Tool Capstone
1010-1050	Client Support Analysis and Improvement
1010-1050	Evaluating officer retirement under the new DoD retirement system using single objective decision analysis
1010-1050	Glenn G. Bartle Public Space Redesign
1010-1050	Early Synthetic Prototyping in the Army Acquisition Process
1010-1050	Design of a System for Prevention of Anterior Cruciate Ligament Injuries
1010-1050	Weapons Characterization for Improving Tests for ARDEC
1010-1050	Analysis of Alternatives for GPS-Denied Navigation for the Army's Small Unmanned Aircraft Systems
1010-1050	Fraud Detection Through Cluster Analysis
1050-1130	Return on Investment Process and Methodology for Determining Capital Investments in Government Owned Contractor Operated Ammunition Manufacturing Facilities
1050-1130	Medical Resources Implications of a Megacity CBRNE Event
1050-1130	Using Big Data to Identify Critical Engagement and Target Networks for Combatant Commanders
1050-1130	Reducing Field Service Personnel While Maintaining Operational Force Capacity
1050-1130	Minimum Threshold for Energy Harvesting 
1050-1130	Simulation of High-Mix Low-Volume Circuit Card Assembly Process
1050-1130	Design of a Hands-Free Interface for Object Relocation for Paralyzed Individuals
1050-1130	Tradespace Analysis of the Rucksack Portable Unmanned Aerial System
1050-1130	Design of an Expert System Coach for Complex Team Sports
1050-1130	Interfaith Second Location Study
1300-1340	Chasing Excellence
1300-1340	Prime Item Development Specification Re-verification Framework (PIDS RVF)
1300-1340	Multi-Mission Launcher Magazine Manager Algorithm
1300-1340	Writing High Quality Code to Facilitate Project Management
1300-1340	Optimization of the Medical Center Emergency Department
1300-1340	The Effects of Population Displacement on Community Resilience
1300-1340	Design of an Orbital Debris Remediation System
1300-1340	Design of Enhanced Methods for Aircraft Fuselage Inspection
1300-1340	Design of a Decision Support System for Safe Landing of High-Drag, Low-Inertia Light Sport and Experimental Aircraft

Green Energy Project

Faculty Advisor	Sponsor	Cadet
Dr. Kwinn, Dr. Henderson & MAJ Santamaria		Crowley, Shannon, Gardner & Considine
Dr. Roger Burk		Flynn, Read, Wintersteen, Jung & Menges
LTC Edward Teague		Poulos, Vega, Hawkins & Whitney
MAJ Christopher Green		Pilkington
		Turner, Bush, Ferrarezzo, Kohtz, Leenig & Streb
		Petrovic, Parker, Edwards & Dressman
		Burns, Tesnow, Attyah & Miller
		Hall, Lee, Ferguson & Walters
		Hidalgo, Jenkins, Olivas & Talmadge
		Martinez
Dr. John Farr		Farley, Irwin, Johnson & Sabert
Dr. Kenneth McDonald		Wasserman, Connolly, McLees & McNulty
LTC Gregory Boylan		Churchill, Welton, Gramling & Speer
MAJ Danny Thebeau		Mo, Page, Kakoulakis & Glenn
MAJ Gregory Bew		Baker
		Paul, Gagnon, Laghezza, Montes, Escorcia & Schaefer
		Kenney, Harrington, Sungkar & Huan
		Carroll, Monson & Archambeau
		Colcombe, Horton, Ommer & Teng
		Linden, Adair, Youngs, Hirsh & Balling
COL Daniel McCarthy		Bailey
CPT(P) Motupalli		Bailey, Bell, Soncini & Sostak
MAJ Paul Santamaria		Loza, Williams, Guerry & Etchberger
		Huang, Qu, Alhat, Leung & Olsen
		Bishop, Fleckenstein, Forey & Kittleson
		Barnes, Gerlinger, Proctor & Zeck
		Noble, Almanee, Shakir & Park
		Fernandez, Keller & Robins
		Mcneill, Salim, Ayllon & Goncer

Systems Engineering - DSE

Time	Project
1340-1420	Bad Moon Rising: Meeting the Army's cargo Aviation Needs through 2065
1340-1420	The Objective Truth about Baseball: Pythagorean Expectation and Luck
1340-1420	Modeling Post-Secondary Alternatives Among High Performing Minority Students
1340-1420	LSSCO Visual Workplace Utilization Improvement
1340-1420	Design of the Life-ring Delivery Drone System for Rip Current Rescue
1340-1420	Creating a Nett Warrior VBS Integrated Training Tool
1340-1420	Corrosion Based Research on Sustainment of Air Defense Systems
1340-1420	Interfaith Second Location Study
1340-1420	Autonomous Aerial Radio Frequency Source Geolocation
1340-1420	Complementary & Integrative Health Analysis
1420-1500	Black Knight II
1420-1500	Cost Estimation in Project Management
1420-1500	Complementary & Integrative Health Analysis
1420-1500	Systems Design - Hyperloop Subsystem Design
1420-1500	Integrating Kinetic Energy and Directed Energy For Counter-Rocket Artillery Mortar Missions
1420-1500	Deterrence Model
1420-1500	3D Tactile Map Printing for the Visually Impaired in Boston

Green Energy Project

Faculty Advisor	Sponsor	Cadet
COL McCarthy		Rogers, Daly, Deforest & Meier
MAJ Danny Thebeau		Goodman
MAJ Jacqueline Harris		Shackelford, Jolly, Atimalala & Cook
MAJ Michael Gabrhel		Koch, Weldon, Irwin & Reece
		Hardy, Rajeh, Venuthurupalli & Xiang
		Lopez, Robinson, Lee & Myrzakhanova
		McCasin, Pilkington & Morrison
		Linden, Adair, Youngs, Hirsh & Balling
		Christensen, Melville, Neumann & Stank
		Hayes, Wolters, Burzenski & Kalybekov
Dr. Roger Burk		Connolly
LTC Johnathan Richards		Swiniarski
		Hayes, Wolters, Burzenski & Kalybekov
		Cheng, O'Connor, Metzger, Elahi & Citriniti
		Cole, Freeny, Gallagher & Franklin
		Hart, Moore, Swiniarski & Sturgell
		Dixon, Nielsen, Reardon, Silber, Stahovic & Sayama

Grand Opening!

Cadet Fine Arts Forum Home

Thursday, 28 April

1330

Building 148 on Trophy Point

Featuring guest speaker Colonel (R) Gregory Gadson, an exhibition of his artwork, and performances by the top scoring Shakespeare Monologues from Academy Idol.



COLONEL (R) GREGORY GADSON ('89) IS A DECORATED COMBAT VETERAN AND LIFELONG PATRON OF THE ARTS. HIS ORIGINAL WORK WILL BE ON DISPLAY DURING THE OPENING