

The logo for the United States Army Research Laboratory (ARL) features the letters 'ARL' in a bold, black, sans-serif font. The top of the 'A' and 'R' are highlighted with a yellow-to-white gradient.

open
campus

United States Army Research Laboratory

Community Relations Program

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REPLY TO
ATTENTION OF

RDRL-LOP

DEPARTMENT OF THE ARMY
US ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND
ARMY RESEARCH LABORATORY
2800 POWDER MILL ROAD
ADELPHI MD 20783-1138

January 13, 2014

MEMORANDUM FOR Headquarters, RDECOM, Public Affairs Officer

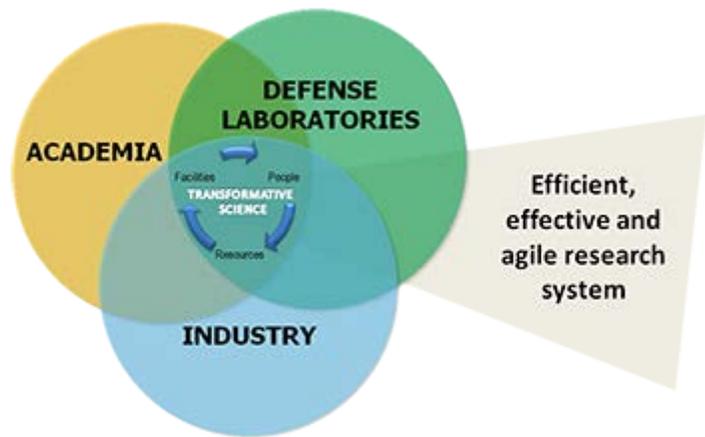
SUBJECT: Endorsement for ARL Community Relations Program

1. I have reviewed the contents of the Army Research Laboratory's Community Relations Program covering their involvement with ARL's new Open Campus initiative. The ARL Public Affairs Office played an instrumental roll in all facets of communication in bringing this program from a concept to an active program. The ARL Public Affairs Team masterfully executed a strategy across all media to enhance understanding of this concept and to build acceptance throughout all levels of the Department of the Army and Department of Defense.
2. I recommend HQ RDECOM Public Affairs equally endorse this community relations program as an outstanding example of how public affairs can make a significant difference in the planning and execution of events and programs such as ARL's Open Campus program.
3. Point of contact is the undersigned at 301-394-4295.


THOMAS A. MOYER
Public Affairs Officer

Summary:

ARL's Open Campus is a collaborative endeavor, with the goal of building a science and technology ecosystem that will encourage groundbreaking advances in basic and applied research areas of relevance to the Army. Through the Open Campus framework, ARL scientists and engineers (S&Es) will work collaboratively and side-by-side with visiting scientists in ARL's facilities, and as visiting researchers at collaborators' institutions. Central to the research collaborations is mutual scientific interest and investment by all partners - ARL's Open Campus is not a funding opportunity. The global academic community, industry, small businesses, and other government laboratories benefit from this engagement through collaboration with ARL's specialized research staff and unique technical facilities. These collaborations will build research networks, explore complex and singular problems, enable self-forming expertise-driven team building that will be well-positioned for competitive research opportunities, and expose scientists, engineers, including professors and students to realistic research applications and perspectives, helping to ensure our nation's future strength and competitiveness in these critical fields.



Key characteristics of the Open Campus initiative are:

- Open sharing of world-class ARL facilities and research opportunities for all partners, including foreign nationals
- Synergistic relationships with the international, academic, and entrepreneur communities
- Creation of flexible career paths in defense research that allow easy transition between government, academia and industry
- Investment in and strategic sharing of human capital and state-of-the-art facilities and technical infrastructure across government, industry and academia
- Enhanced defense research environment that fosters innovation, collaboration and scientific/engineering growth and provides an incubator for rapid transition of technologies into products by entrepreneurs
- Increased opportunities for technology advancement and transfer of research knowledge

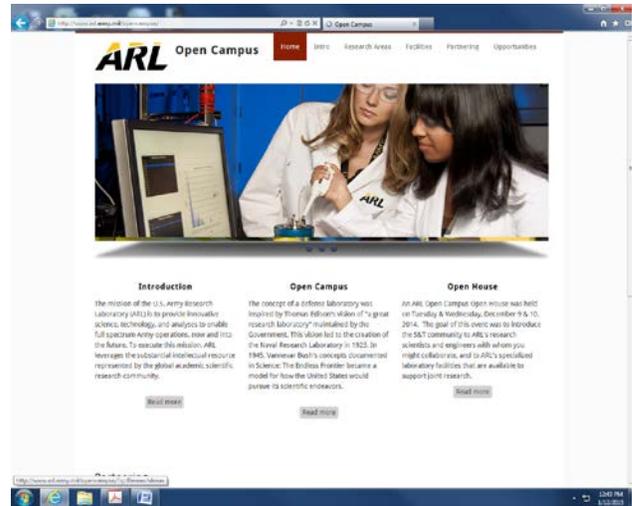


- Increased public involvement in defense research to create enhanced understanding of the value and importance of defense science, technology, and exploration

Currently, ARL seeks to attract partners for collaborative engagement in our key S&T research areas of Computational Sciences, Materials Sciences, Sciences-for-Maneuver, Information Sciences, Sciences for Lethality and Protection, Human Sciences, and Assessment and Analysis.

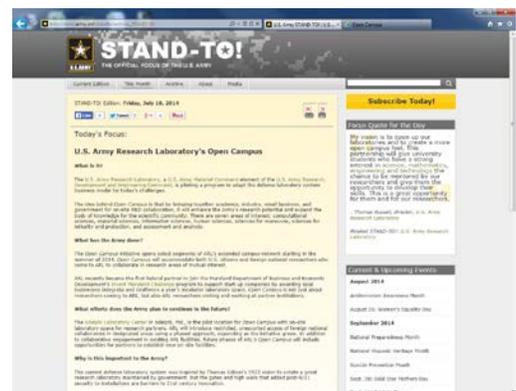
Why is this important to the Army?

The current defense laboratory system was inspired by Thomas Edison's 1923 vision to create a great research laboratory maintained by government. But the gates and high walls that added post-9/11 security to installations are barriers to 21st century innovation. The opportunity for the Army here is to address the rate of technological change across the globe; increasingly sophisticated security threats to the warfighter; and funding constraints, with a more interconnected approach.



Planning:

ARL's Public Affairs Office in close coordination with the Open Campus Program Manager undertook a year-long effort to build internal and external awareness of the Open Campus initiative. The year-long effort would culminate with a Open Campus Open House showcasing the lab's people, facilities and areas available for partnership with potential external collaborators.



Internal Communications –

This involved a process by which all employees would be exposed to information generated by the public affairs office ensuring every employee was exposed to the concept. Tactics included:

- Articles
- Stand-to
- Director's Weekly Messages
- Program Manager Updates
- Director's Corner
- Web development
- Town Halls
- Social media

Budget – There was no budget associated with the planning, development and execution of this communication program. The ARL Public Affairs Office executed the entire strategy using existing funding lines that did not initially include support for the Open Campus initiative.

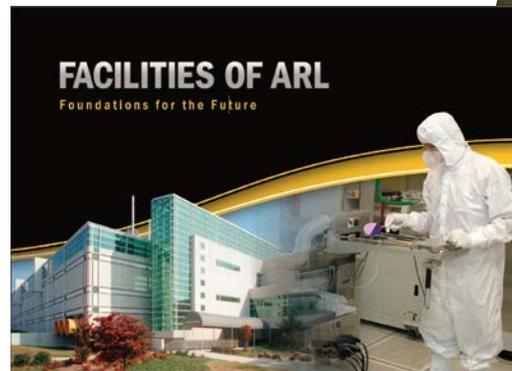


Every communications aspect was carefully considered and strategically developed to ensure a consistent narrative across all communications domains. From senior Army leaders to every employee to potential external collaborators interested in this initiative, the public affairs specialists across the entire enterprise coordinated every key message ensuring the right words were used at the right time to influence key decision leaders and to influence behavior and perceptions.

Execution

Beginning in January 2014, the ARL Public Affairs Office provided input to the program manager's office and developed a communications campaign document that served as an overarching narrative to ensure instantaneous success across all medium and a clear, concise and consistent message.

At the same time, ARL Public Affairs immediately developed content on its external website about this new initiative and completed several critical publications including



Open Campus Opportunities and the ARL Facilities Book. These two publications served as external guides to potential collaborators on the unique capabilities of the laboratory and the areas where ARL is interested in partnering.



During the months that followed, the Public Affairs Office coordinated with Department of the Army, AMC, RDECOM and others to distribute internally produced articles, social media postings and internal communications products aimed at educating and building awareness of this new concept. The public affairs office in close coordination with the ARL Corporate Information Office published a series of articles on the infrastructure improvements that would be implemented in support of Open House. These articles appeared monthly and included the following headlines:

- CISD launches high quality VTC bridge throughout the laboratory
- IT infrastructure behind Open Campus Concept enables full scale collaboration
- CISD explores mobile computing for real-time collaboration



- CISD says with wireless visitors will be able to "bring your own device"

Additional articles released internally to the workforce and externally to as wide an audience as possible included editorials written by the Laboratory Director as well as over arching articles written to enhance understanding of Open Campus. Headlines included:

- *Army Research Laboratory's Open Campus Initiative*
Joining researchers to encourage groundbreaking advances in basic and applied science
- Open Campus pilot boosts collaboration for Army Lab
- Collaboration Commons designed to enhance discussions amongst employees
- Open Campus initiative fosters rewarding experience for guest researcher
- *Collaboration through the Open Campus initiative*
Stimulating research, innovation and technology infusion
- Open Campus initiative brings natural language processing to cyber research



During the 4QFY15, the ARL Public Affairs Office took it upon itself to create a comprehensive Open Campus website to serve as a central repository of news and information for ARL's external audiences. This would allow linkages to ARL's corporate website, but allow individuals to freely navigate through all Open Campus material in a single visit. Also, the public affairs office decided to enhance marketing of the Open Campus initiative, they would produce a marketing video that could be used as a tool to explain the intricacies of what ARL is attempting to do for federal laboratories. (See enclosed video)

In September 2014, the ARL Director thought it would be in the best interest of the laboratory to host an Open Campus Open House at the Adelphi Laboratory Center. This Open House would allow government, industry and academic partners to received first-hand information about potential collaborations and to tour ARL's world-class facilities. The ARL Public Affairs Office was charged with establishing the branding for the open house as well as establishing video streaming services, poster presentations, briefing support, main conference room support, website support and a host of other Open House support functions, including a quick redesign of the lobby to align the lobby with ARL's new technology campaigns.

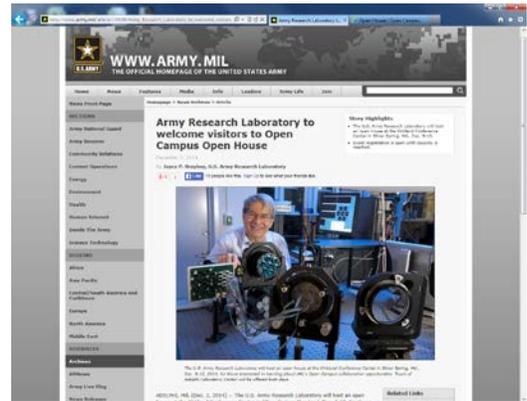


The Open Campus Open House received late approval from the Army Materiel Command thus allowing for only a six-week turn-arounds of deliverables. However, from the Save the date, to the templates for posters and presentations to how the event was run, the Open House was determined to be a success throughout the research community. Even the streaming reached potential partners in 28 states and many major metropolitan areas. The Army News Service covered the Open House publishing an article that appeared on the DA's homepage

(http://www.army.mil/article/139968/450_scientists_visit_Army_Research_Lab__Open_Campus/).

ARL's social media presence was also positively affected by the Open House. In the month immediately following the event, ARL's Facebook page alone nearly doubled the number of followers. Similar results were also evident on ARL's Twitter account.

From the initial Open Campus concept launching in January 2014 to the conclusion of the Open House on December 10, 2014, the ARL Public Affairs Office provided superior public affairs and communications support to the laboratory thus helping lay the foundation for a future that will enhance collaborative opportunities that will ensure America's continued dominance on future battlefields and allow ARL to remain the nation's premier laboratory for land forces.



Links

Articles



Army Research Laboratory's Open Campus Initiative

<http://www.arl.army.mil/www/default.cfm?article=2498>



Open Campus initiative fosters rewarding experience for guest researcher

<http://www.arl.army.mil/www/default.cfm?article=2506>



Open Campus initiative brings natural language processing to cyber research

<http://www.arl.army.mil/www/default.cfm?article=2532>



Collaboration through the Open Campus initiative

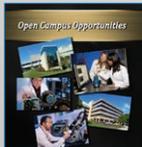
<http://www.arl.army.mil/www/default.cfm?article=2523>



ARL's neuroscience program successful example of Open Campus concept

<http://www.arl.army.mil/www/default.cfm?article=2510>

Book



Open Campus Opportunities Book

http://www.arl.army.mil/www/pages/2357/ARL_Open_Campus_Opportunities.pdf

Video



ARL Open Campus

<http://youtu.be/19R9e050GF8>

Web Sites



ARL Open Campus Page

<http://www.arl.army.mil/www/default.cfm?page=2357>



Open Campus Web Site

<http://www.arl.army.mil/opencampus/>



Open Campus Open House Page

<http://www.arl.army.mil/opencampus/?q=Opportunities>

Logo • Badges • Brochure

open campus



ARL seeks to collaborate with academic, government, small business and industry partners.



U.S. Army Research Laboratory
www.arl.army.mil



ARL's Pilot Program

Our pilot program will be centered in the Adelphi Laboratory Center (ALC) in Adelphi, MD and include ARL's Specialty Electronic Materials and Sensors Classroom (SEMASC), a 15,000 square foot Class 10/100 cleanroom equipped to process novel materials and devices structured down to nanoscale dimensions, and ARL's Microsystem Indoor Testing Ground, an enclosed atmosphere enabling experiments with unattended ground and air intelligent systems.

Make a Difference

Bringing together academia, industry, small business, and government for on-site R&D collaboration, enhances the Army's resources potential and helps expand our body of knowledge to maximize our potential to create the Army of the future.

“My research focuses on the theoretical aspects behind the sensors, and ARL allowed me the opportunity to understand the practical issues of the sensors by being able to speak with scientists and engineers whose main focus is how the technology will be applicable to the Soldier. It was so fulfilling to see how I could impact the mission of Soldiers on the battlefield.”

Dr. Kishan Thomas Wong
Associate Professor
Hong Kong Polytechnic University




open campus

Collaborative research for transformative scientific discovery, innovation and transition that is critical to national security.



ARL is building a science and technology ecosystem that will encourage groundbreaking advances in basic and applied research areas of relevance to the Army. It allows research partners - including foreign nationals - from academia, industry, small business, and government to work alongside ARL researchers at ARL facilities, and permits ARL staff to become visiting researchers at collaborators' institutions. In addition to collaborative engagement opportunities for partners to establish new on-site facilities on our campuses.

ARL
U.S. Army Research Laboratory

Seeking Partners Now

It is widely acknowledged that innovation depends on bringing multiple disciplines together to engage in collaborative projects that often yield unpredictable, but highly productive, results. Formal and informal interactions among scientists lead to knowledge-building and research breakthroughs.

Materials research, assessment and analysis
human sciences
computational sciences
sciences for lethality and protection
sciences for maneuver
information sciences

“We will need new technology over the next 10 years to make a better and more capable Army.”
GEN Raymond T. Odierno,
Staff Chief of Staff,
U.S. Army





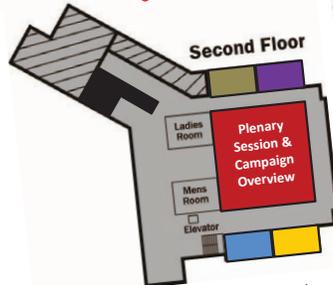
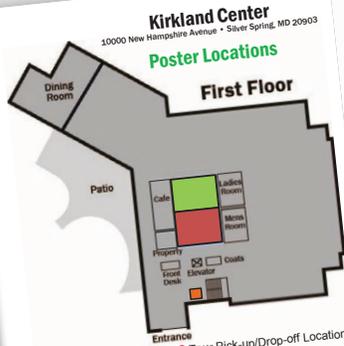
Event Tri-fold

ARL Mission

Discover, innovate, and transition science and technology to ensure dominant strategic land power.

Our Vision

The nation's premier laboratory for land forces.



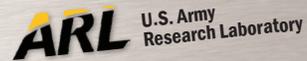
- Assessment & Analysis
- Computational Sciences
- Human Sciences
- Information Sciences
- Materials Research
- Collaborative Mechanisms
- Sciences for Lethality & Protection
- Sciences for Maneuver



open campus

OPEN HOUSE

Agenda
December 9 & 10, 2014



- DECEMBER 2014**
- 7:00-7:50 Registration and Refreshments
 - 7:50-8:00 **Welcome and Introduction**
Dr. Alma Wickenden,
ARL Associate for Research
 - 8:00-8:05 **Opening Ceremony**
Presentation of Colors
and National Anthem
 - 8:05-8:10 **Major General John F. Wharton**
Commanding General
United States Army Research, Development
and Engineering Command
 - 8:10-8:30 **Hon. Patricia Falcone, Keynote Speaker**
White House Office of Science & Technology
Policy
 - 8:30-8:50 **Hon. Ben Cardin, Keynote Speaker**
US Senator, D-MD
 - 8:50-9:10 **Mr. Gabriel Camarillo, Keynote Speaker**
Principal Deputy, Assistant Secretary of the
Army, Acquisition, Logistics & Technology
 - 9:10-9:45 **Open Campus Model: Accelerating
Innovation and Discovery at ARL and
Beyond**
Dr. Thomas Russell, ARL Director
 - 9:45-10:00 Break
 - 10:00-11:00 **ARL S&T Campaign Overview Panel**
Materials Research, Dr. Philip Perconti
Information Sciences, Dr. John Pellegrino
Computational Sciences, Dr. Raju Namburu
Sciences for Maneuver, Dr. Mark Valco
 - 11:00-11:15 **Schedule Explanation**
Ms. Wendy Leonard,
ARL Open Campus Program Manager
 - 11:15-11:30 Break
 - 11:30-12:15 **Information Exchange Opportunities**
11:30-12:15 - S&T Campaign Collaborative
Opportunities
Materials Research, Dr. Philip Perconti

9 DECEMBER 2014

(Continued)

- 11:30-12:15 - Unstaffed Poster Review
- 11:30-12:45 - Collaborative Mechanisms Q&A
- 11:30-2:00 Lunch
- 1:15-5:00 **Information Exchange Opportunities**
- 1:15-4:30 - **Tours of Army Research Laboratory**
(via bus to ARL)
- 1:15-4:45 - **Staffed Poster Sessions**
(Kirkland Center & via bus to ARL)
- 1:15-4:45 - **Collaborative Mechanisms Q&A**
- 1:15-2:00 - **S&T Campaign Collaborative Opportunities**
Information Sciences, Dr. John Pellegrino
- 2:15-3:00 - **S&T Campaign Collaborative Opportunities**
Computational Sciences, Dr. Raju Namburu
- 3:00-3:30 Break
- 3:45-4:30 - **S&T Campaign Collaborative Opportunities**
Sciences for Maneuver, Dr. Mark Valco
- 5:00 Adjourn

10 DECEMBER 2014

- 7:00-8:00 Registration and Refreshments
- 8:00-8:10 **Welcome**
Dr. Alma Wickenden,
ARL Associate for Research
- 8:10-8:40 **Dr. Robin Staffin, Keynote Speaker**
Office of the Assistant Secretary of Defense
for Research & Engineering
- 8:40-9:10 **Dr. Kate Gill, Keynote Speaker**
UK Ministry of Defence
- 9:10-9:40 **Open Campus Collaborative Mechanisms**
Mr. Thomas Mulkern,
ARL Technology Transfer
- 9:40-10:10 Break

10 DECEMBER 2014

(Continued)

- 10:10-10:55 **ARL S&T Campaign Overview Panel**
Sciences for Lethality & Protection,
Mr. David Lyon
Human Sciences, Dr. Laurel Allender
Assessment & Analysis, Dr. Paul Tanenbaum
- 10:55-11:05 **Schedule Explanation for Information
Exchange Opportunities**
Ms. Wendy Leonard,
ARL Open Campus Program Manager
- 11:05-11:30 Break
- 11:30-12:15 **Information Exchange Opportunities**
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Human Sciences, Dr. Laurel Allender
- 2:15-3:00 - **S&T Campaign Collaborative
Opportunities**
Assessment and Analysis,
Dr. Paul Tanenbaum
- 3:30-4:00 Break
- 4:00-4:30 **Next Steps and Closing Comments**
Dr. Thomas Russell, ARL Director
- 5:00 Adjourn

Fact Sheet • Map • Guidebook

Opening the ARL Campus

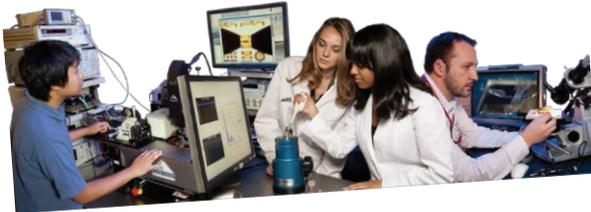


The mission of the U.S. Army Research Laboratory (ARL) is to provide innovative science, technology, and analyses to enable full spectrum Army operations, now and into the future. To execute this mission, ARL leverages the substantial intellectual resource represented by the global academic scientific research community. Formation of a collaborative and transparent relationship with this community, with industry, and with small business through the Open Campus initiative offers the prospect for enhanced discovery and innovation, and effective execution of basic and applied research programs in a variety of technical focus areas of high Army interest.

ARL's Open Campus initiative is a collaborative endeavor, with the goal of building a science and technology ecosystem that will encourage groundbreaking advances in basic and applied research areas of relevance to the Army. Through the Open Campus framework, ARL scientists and engineers (S&Es) will work collaboratively and side-by-side with visiting scientists, including foreign nationals, in ARL's facilities, and as visiting researchers at collaborators' institutions. The global academic community, industry, small businesses, and other government laboratories benefit from this engagement through collaboration with ARL's specialized research staff and unique technical facilities. These collaborations will build research networks, explore complex and singular problems, enable self-forming expertise-driven team building that will be well-positioned for competitive research opportunities, and expose science and engineering students to realistic research applications and perspectives, helping to ensure our nation's future strength and competitiveness in these critical fields.

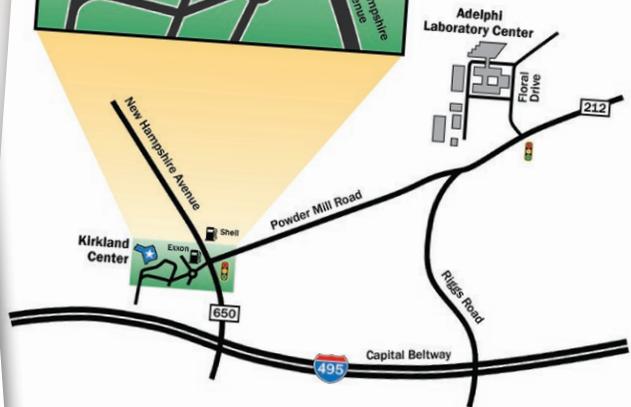
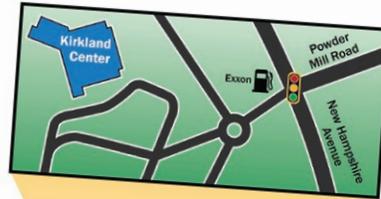
Currently, ARL seeks to attract academic, government, small business, and industry partners for collaborative engagement. The document that outlines research areas of interest to ARL and provides specific collaboration opportunities and points of contact for each can be found at http://www.arl.army.mil/www/pages/2357/ARL_Open_Campus_Opportunities.pdf. These research areas are represented in ARL's Technical Strategy and include Computational Sciences, Materials Sciences, Sciences for Maneuver, Information Sciences, Sciences for Lethality and Protection, Human Sciences, and Assessment and Analysis. Each of these research areas focuses on critical challenges that arise in the extreme operational and threat environment in which the Army operates.

For additional information, please view our webpage at <http://www.arl.army.mil/www/default.cfm?page=2357> or contact the ARL Open Campus Program Manager, Ms. Wendy Leonard, at wendy.a.leonard.civ@mail.mil.



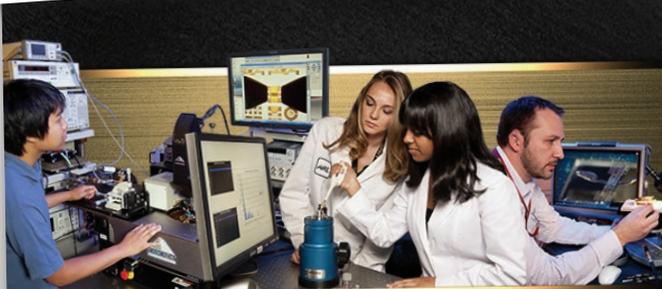
Kirkland Center Location

10000 New Hampshire Avenue, Silver Spring, MD 20903



Directions to the Kirkland Center from Adelphi Laboratory Center:

- From Floral Drive, make a right onto Powder Mill Road
- In the section of Riggs Road to stay on Powder Mill Road
- At the traffic light at New Hampshire Avenue
- Circle and take the second exit
- The Kirkland Center will be on your right



Open Campus



US ARMY RESEARCH LABORATORY

COLLABORATION - GUIDEBOOK

Open House Special Guest Bios

Biography



**U.S. Senator Ben Cardin
Maryland (D)**

Ben Cardin has been a national leader on health care, retirement security, the environment and fiscal issues as a member of the U.S. Senate and House of Representatives. Senator Cardin was first elected to the U.S. Senate in 2006 and he was re-elected in 2012. He currently serves on the Finance, Small Business & Entrepreneurship, Environment and Public Works (EPW) and Foreign Relations (SFR) committees. In the 113th Congress, he has served as chair of the EPW and Wildlife Subcommittee of EPW and he chairs the SFR East and Pacific Affairs Subcommittee.

The Washington Post has said Ben Cardin has a "command of issues, proven integrity, formidable intellect and an unstinting work ethic," and that he "is sensible, tough-minded and independent."

Senator Cardin has fought to improve the partnership between the federal government and the private sector. He continues to work for an end to sequestration and a return to predictability from the budget and clarity in the tax code so federal agencies and businesses – big and small – can better invest in their future.

Senator Cardin is proud to serve on the Small Business and Entrepreneurship Committee which concentrates on crafting federal policies that help small businesses succeed. He is also a vocal proponent of integrated support for Maryland companies of all sizes, and their workers.

Senator Cardin is committed to expanding business opportunities for Marylanders. He has introduced legislation that increased the limit for surety bonds to \$6.5 million, pushed a law that allows small businesses to bid on prime contracts, and has cosponsored a number of additional bills to help small businesses from prime contracts, and has cosponsored a number of additional bills to help small businesses from prime contracts, and has cosponsored a number of additional bills to help small businesses from prime contracts.

Since coming to the Senate, Senator Cardin has sponsored numerous forums with business owners to discuss access to capital, the impacts of health care reform and federal budget challenges. He also has been traveling across Maryland to highlight homegrown businesses and challenges. He also has been traveling across Maryland to highlight homegrown businesses and challenges. He also has been traveling across Maryland to highlight homegrown businesses and challenges.

Senator Cardin was Speaker of the Maryland House of Delegates from 1979 to 1983 and has served Maryland's Third Congressional District in the U.S. House of Representatives from 1983 to 1987.

Biography



**Hon. Patricia Falcone
Associate Director for National
Security and International Affairs
Office of Science and Technology
Policy (OSTP)
The White House**

Dr. Patricia Falcone is the Associate Director for National Security and International Affairs in the Office of Science and Technology Policy (OSTP) at the White House. She was sworn in August 2012 following confirmation by the Senate. Her work seeks to strengthen innovation and technical excellence in support of U.S. defense, intelligence, and national- and homeland-security missions and to ensure technical matters are effectively included in ongoing policy and budget development processes.

Dr. Falcone previously worked as a member of the professional staff of Sandia National Laboratories in Livermore, California from 1981 - 2012. She was detailed to OSTP from 2009 - 2012. As a Senior Manager at Sandia, Dr. Falcone was responsible for Systems Analysis and Engineering; earlier, she was named a Distinguished Member of the Technical Staff.

She has served on the Board on Army Science and Technology of the National Academies, the Nuclear Deterring Transformation Panel of the Department of Defense's Threat Reduction Advisory Committee, and an Advisory Committee at Princeton University.

Dr. Falcone holds a B.S.E. in Aerospace and Mechanical Sciences from Princeton University, and M.S. and Ph.D. degrees in Mechanical Engineering from Stanford University.

Biography



**Mr. Gabe Camarillo
Principal Deputy
Assistant Secretary of the Army
Acquisition, Logistics & Technology**

In 2012, Gabe Camarillo was appointed to serve as the Principal Deputy Assistant Secretary of the Army (Acquisition, Logistics & Technology). A member of the Senior Executive Service, he is the senior civilian deputy to the Hon. Heidi Shyu, the Assistant Secretary of the Army (Acquisition, Logistics & Technology). As the Principal Deputy, he advises the Assistant Secretary and Army leadership on matters relating to Army acquisition, procurement, research & development and logistics. He participates in the development of policies, programs and processes for the execution of the Army's day-to-day acquisition efforts. Mr. Camarillo assists the Assistant Secretary in overseeing the day-to-day operations of an organization with a 5,000 person acquisition workforce managing over 600 Army programs and contracting actions totaling more than \$125 billion.

From 2010 to 2012, Gabe Camarillo was the Special Assistant to the Assistant Secretary of the Army (Acquisition, Logistics & Technology), serving as a principal advisor to the Assistant Secretary of the Army on all matters under the Assistant Secretary's authority. He coordinated significant decisions across DoD organizations and provided oversight on external communications and Congressional outreach regarding key acquisition matters.

Prior to his appointment, Mr. Camarillo had extensive experience as a lawyer in private practice. As an associate at Akin Gump, LLP, he practiced complex commercial litigation, with experience in intellectual property litigation, business torts and contract disputes. His legal practice specialized in election law and campaign finance issues, in which he advised candidates, nonprofits and political organizations on campaign finance and government ethics compliance and represented political organizations as organizations in ballot access and First Amendment litigation. Mr. Camarillo previously worked as a legislative assistant and deputy press secretary for Rep. Calvin M. Dooley, who formerly represented California's 20th Congressional district. His portfolio as a legislative aide included national security, military construction, and education and telecommunications issues.

He received his law degree from Stanford Law School and his undergraduate degree from Georgetown University. Mr. Camarillo is currently an adjunct professor at Georgetown University's Public Policy Institute.

Biography



**Dr. Kate Gill
1st Secretary Defence S&T
Desk Officer
UK Ministry of Defence**

Kate is currently the 1st Secretary Defence S&T desk, officer working as part of the British Defence Staff (BDS) based at the British Embassy in Washington DC. She is on a three year secondment from the Ministry of Defence Science and Technology Laboratory (Dstl), having held the role of Principal and Group Leader with the Air and Space Operations and Technology (ASOT) and the role of Principal and Group Leader with the Air and Space Operations and Technology (ASOT) and the role of Principal and Group Leader with the Air and Space Operations and Technology (ASOT).

Kate was the Group Leader for Air Vehicle Group (AVG) in Air and Weapons Systems, the defence Science and Technology Laboratory (Dstl) which is a group of independent advice and guidance to the Ministry of Defence on aerospace systems, systems safety development programme and schools outreach programme, and education of engineering at all levels.

Kate has had a long standing involvement in INCOSE and the UK Systems Society, contributing to the RACS, AFM, STEM and WISE. Kate currently contributes to the Engineering Council, EIT Professionalisation Panel and conducts engineering education outreach in the UK and abroad. She is also a member of the Engineering Council, EIT Professionalisation Panel and conducts engineering education outreach in the UK and abroad. She is also a member of the Engineering Council, EIT Professionalisation Panel and conducts engineering education outreach in the UK and abroad.

In previous careers, Kate completed a technical apprenticeship with BAE Systems at Watlington where she worked for nearly two years on weapons and navigation systems for the Royal Air Force. Kate then returned to aviation with British Aerospace, working on the development of the Down View and Evaluation consulting with a systems consultancy and Magill Engineering Program (E2P) program between Portsmouth, UK and Washington DC, US.

In terms of Kate's personal development, her first degree was in Aeronautical and Astronautical Engineering from the University of Bath. She has recently completed her MSc in Systems and Systems Engineering from the University of Bath. She has also completed her PhD in Systems and Systems Engineering from the University of Bath.

Biography



**Dr. Robin Staffin
Office of the Assistant Secretary of
Defense for Research & Engineering**

Dr. Robin Staffin is currently the Director for Basic Research in the Office of the Assistant Secretary of Defense for Research & Engineering, where he has responsibility for overall activities throughout the Department of Defense.

Previously, Dr. Staffin served as Associate Director of Science and Director of the Department of Energy's Office of Science, and Deputy Assistant Secretary for Development in DOD's Office of Defense Programs.

During the period 1998-2001, he served as Senior Policy Advisor to the Secretary of Energy for Science, Technology, and National Security. From 1993-1998, Dr. Staffin was Special Assistant Secretary of Defense for International Security Policy, focusing on nuclear test ban policy, arms control, and nonproliferation. A proponent of training, he received his science-based associate leadership, and nonproliferation. A proponent of training, he received his science-based associate leadership, and nonproliferation. A proponent of training, he received his science-based associate leadership, and nonproliferation.

He holds a Bachelor of Science from MIT and Ph.D. from Stanford University in particle physics.

Biography



**Major General John F. Wharton
Commanding General
United States Army Research, Development
and Engineering Command**

Major General John Wharton serves as commanding general of the United States Army Research, Development and Engineering Command (RDECOM) at Aberdeen Proving Ground, Maryland. RDECOM ensures the confluence of Army capabilities in research, development and engineering, and the integration of research, development and engineering efforts across the Army's research, development and engineering community. Wharton leads more than 14,000 researchers, engineers and support personnel.

Major General Wharton was commissioned a second lieutenant upon graduation from West Point in 1981, serving in the 1st Cavalry Division, 1st Infantry, 101st Airborne, and 10th Mountain Division. He was assigned to the 10th Mountain Division (Light Infantry) in 1983, serving as a platoon leader, company commander, and battalion commander. He was assigned to the 10th Mountain Division (Light Infantry) in 1983, serving as a platoon leader, company commander, and battalion commander. He was assigned to the 10th Mountain Division (Light Infantry) in 1983, serving as a platoon leader, company commander, and battalion commander.

In addition to his degree from the United States Military Academy, his education includes the Command and General Staff College and the Naval War College. He holds a master's degree in national security and strategic studies.

Biography

**Biography
Department of the Army**



**Dr. Thomas P. Russell
Director
U.S. Army Research Laboratory
Adelphi, Maryland**

Dr. Thomas P. Russell is the Director of the U.S. Army Research Laboratory, the Army's premier laboratory for basic and applied research and analysis. ARL conducts research and analysis in weapons and materials, sensors and motion devices, computational and information sciences, human research and engineering, vehicle technology, and survivability and lethality analysis. ARL's Army Research Office focuses the Army's extramural basic research program in scientific and engineering disciplines.

Dr. Russell's government career began as a research scientist at the Naval Surface Warfare Center, and later as the Head of the High Energy Materials Section within the Research Division, Research Department, Department Head, Research and Technology Division, and as the Technical Operations Manager. As Director of the Aerospace and Material Sciences Directorate (AFOSR) there he oversaw the management of the Army's basic research program in aerospace, chemical and material sciences. In 2010 he was tapped to become Director of the Air Force Office of Scientific Research, Tokyo and San Diego. Dr. Russell has been a visiting scientist at the National Institutes of Health and Technology, an adjunct professor at the University of Maryland, and a part-time faculty member at Montgomery College. Dr. Russell is also well known as a physicist, chemist, and inventor, authoring more than 100 publications and inventions. His principal fields of interest are: energetic materials, computational combustion chemistry, detonation physics/chemistry, high pressure chemistry/physics and spectroscopy. In 2006 he was appointed the Director of the Air Force Office of Scientific Research, Tokyo and San Diego.

Dr. Russell's many awards include the High Energy Materials Award, High Energy Materials Research Center, White Oak Laboratory, and the Independent Research Award (three times). Research and Technology Division, Naval Surface Warfare Center, White Oak Laboratory, and the Independent Research Award (three times). Research and Technology Division, Naval Surface Warfare Center, White Oak Laboratory, and the Independent Research Award (three times).

PowerPoint Presentations

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U.S. ARMY RDECOM

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Open Campus Collaborative Opportunities

Sciences for Maneuver Campaign

Dr. Mark J. Valco
U.S. Army Research Laboratory

The Nation's Premier Laboratory for Land Forces

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Sciences for Maneuver Campaign Collaboration Discussions

Campaign Poster Locations:

- Kirkland Center, 2nd Floor
 - ENERGY & PROPULSION
 - PLATFORM MECHANICS
 - LOGISTICS & SUSTAINABILITY
- Adelphi Laboratory Center, Bldg 507 (including demos)
 - VEHICLE INTELLIGENCE
 - ENERGY & PROPULSION



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LEADER
Dr. Thomas Russell, Director

FEATURED PUBLICATION
Research@ARL Materials Modeling at Multiple Scales

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SAVE THE DATE
December 9 & 10, 2014 in Adelphi, Maryland

SCIENCE & TECHNOLOGY

ARL researchers evaluate Soldier performance to help produce better products for the service member
The U.S. Army Research Laboratory Human Research and Engineering Directorate's Fort Leonard Wood field element was recently involved in the completion of a live-fire experiment with the modular protective system multipurpose guard tower on Fort Leonard.

Army, DOE studies deliver never-before-seen material failures during high-pressure experiments
For the first time, U.S. researchers were able to observe and measure the dynamic deflection and failure of material fibers as they deformed under high impact and at high speeds during recent experiments at the Dynamic Compression Sector of the Argonne National

U.S. Army Research Lab wins DOD award for a billion hours of supercomputing to research internal combustion engines
On October 1, Army researchers began modeling the engine spray mixture formation process at never-before-seen complexities as part of an effort to improve engine performance. Their research funding is tied to an award the U.S. Army Research

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We invite you to be part of our vision
Open Campus
Open house

LEARN MORE

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Invitation to Attend a U.S. Army Research Laboratory Open Campus Open House

Signage

Assessments and Analysis

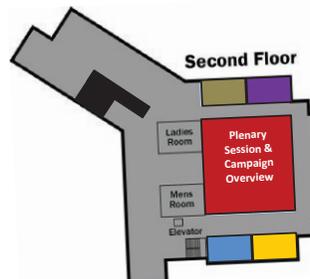
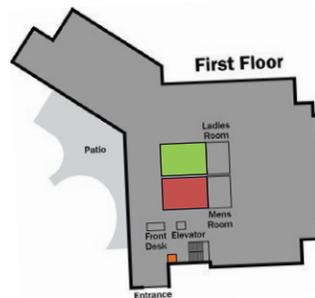
Locations at Kirkland Center 2nd Floor

Poster ID	Poster Name	Presenter
AA4	Military Injury Research for Evaluating Human Vulnerability in Combat	Mr. Pat Gillich
AA5	Characterizing Task Performance of Injured Soldiers	Ms. Latrice Hall
AA6	Vulnerability Modeling for Specific Human Morphologies	Mr. Timothy Myers
AA7	Trauma comparison of Civilian Automotive with Military Combat Injuries	Dr. Kathryn Loftis (Altus)
AA8	Improving Behind Armor Blunt Trauma	Dr. Nit Moholkar (Altus)
AA9	Understanding Military-relevant Injury Mechanisms	Dr. Karin Rafaels
AA10	System-of-Systems Analysis (SoSA)	Phil Simpson
AA12	Uncertainty Quantification in Vulnerability Modeling	Dr. Joseph Collins
AA16	Computed tomography (CT) Analysis for Ballistic Research Applications	Ms. Natalie Eberius
AA18	Operational Requirement-based Casualty Assessment (ORCA) and VisualAID Demonstration	Ms. Autumn Kulaga, Ms. Latrice Hall, and Mr. Tim



Kirkland Center - VIP
10000 New Hampshire Ave.
Silver Spring, Maryland 20903

Poster Locations



- Information Sciences
- Human Sciences
- Sciences for Lethality & Protection
- Sciences for Maneuver
- Assessment & Analysis
- Materials Research
- Computational Sciences
- Mechanisms

Social Media

U.S. Army Research Laboratory
October 22, 2014 · Edited · Public

There has been a lot of conversation about ARL's Open Campus here in Adelphi. The biggest question we get is, "How is this different than the collaboration ARL has always done?" We'd like to answer that question in a big way this December.

For more information about Open Campus, visit <http://www.arl.army.mil/opencampus/>

SAVE THE DATE
December 9 & 10, 2014
in Adelphi, Maryland

Invitation to Attend a U.S. Army Research Laboratory Open Campus Open House

Like · Comment · Share · 6

U.S. Army Research Laboratory updated their cover photo.
October 20, 2014 · Public

CELEBRATING 22 YEARS
of science and technology
(October 1992 - October 2014)

Like · Comment · Share · 6

U.S. Army Research Laboratory
December 15, 2014 · Edited · Public

Researchers and innovators of all types visited Adelphi Laboratory Center technology last week to discuss shared interests as it concerns Army science and technology.

U.S. Army Research Laboratory added 14 photos from House December 15, 2014 · Public

Presenters started the Open Campus Open House with context for how opening up the way ARL does business as a Defense laboratory fits within the grand scheme of things.

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U.S. Army Research Laboratory added 4 new photos.
December 10, 2014 at 12:13pm · Edited · Public

Presenters started the Open Campus Open House with context for how opening up the way ARL does business as a Defense laboratory fits within the grand scheme of things.

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U.S. Army Research Laboratory
December 15, 2014 at 7:14am · Public

Soldier uniforms may one day detect, neutralize biological threats

Scientists at the Army Research Laboratory in Adelphi, Maryland, have developed and are producing in small batches synthetic peptides they believe will serve as...

ARMY.MIL | BY C. TODD LOPEZ

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Thanks to all of those who attended Open Campus Open House. We couldn't have done it without you.

Open Campus
The mission of the U.S. Army Research Laboratory (ARL) is to provide innovative science, technology, and analyses to enable full spectrum Army operations, now and into the future. To execute this mission, ARL leverages the substantial...

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U.S. Army Research Laboratory added 14 photos from House.
December 15, 2014 · Public

U.S. Army Research Laboratory
December 10, 2014 at 12:13pm · Edited · Public

Presenters started the Open Campus Open House with context for how opening up the way ARL does business as a Defense laboratory fits within the grand scheme of things.

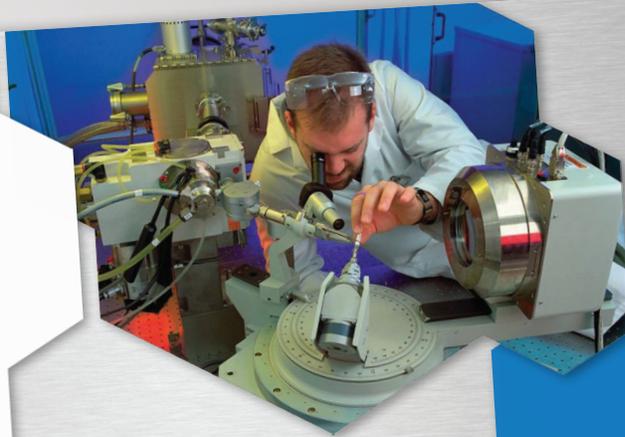
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U.S. Army Research Laboratory
December 3, 2014 · Public

Representatives from RDECOM labs and centers as well as the U.S. Army Corps of Engineers ERDC recently participated in the 2014 Nanotechnology for Defense Conference in Chantilly, Virginia. RDECOM participants included subject matter experts from ARL, ARDEC,

Welcome Package

open
campus



OPEN HOUSE

December 9 & 10, 2014

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U.S. Army Research Laboratory

