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U.S. Army Research Laboratory

OPEN HOUSE

3-4 NOVEMBER 2015

Aberdeen Proving Ground, MD

Welcome

It is with great pleasure that I welcome you to the Army Research Laboratory's Open Campus Open House at Aberdeen Proving Ground. Our Open Campus initiative is a collaborative endeavor, with the goal of expanding our science and technology ecosystem which will encourage groundbreaking advances in basic and applied research areas of relevance to the Army.

This is our second year of inviting potential collaborators from across academia, industry and other government agencies to explore the hundreds of opportunities we have available to see where we can discover and innovate together.

Over these two days, you will receive presentations focusing on seven of ARL's eight science and technology campaign areas: Materials Research, Information Sciences, Computational Sciences, Sciences for Maneuver, Human Sciences, Sciences for Lethality and Protection, and Assessment and Analysis. I encourage you to attend campaign overviews, laboratory tours, and poster presentations which will be staffed by scientists and engineers eager to engage in technical discussions in the areas of interest to you. We will be live tweeting throughout this event so be sure to follow us on twitter using #opencampus2015.

I hope your attendance is rewarded with a greater understanding of ARL's Open Campus business model scope of our research. I am confident that when this event is over, you have a fuller appreciation of the collaborative research opportunities that exist across our laboratory.

On behalf of the entire ARL team, I want to say welcome and thank you for participating in the ARL Open Campus Open House.

Thomas P. Russell
Director, Army Research Laboratory

3 NOVEMBER 2015

6:30-8:00	Arrival and Badging at Ripken Stadium
7:00-8:00	On-demand Bus Transportation to APG
7:00-8:30	Continental Breakfast at Mallette Tent
8:45-8:55	**Welcome and Introduction** Dr. Alma Wickenden, ARL Associate for Research
8:55-9:05	**Opening Ceremony** Presentation of Colors and National Anthem
9:05-9:10	**Opening Remarks**
9:10-9:30	**Honorable C.A. Dutch Ruppersberger** United States House of Representatives
9:30-9:50	**Major General John Wharton** Commanding General, Army RDECOM
9:50-10:10	**Mr. Austin Yamada** U. Arizona, Director, Defense and Security Research Institute
10:10-10:30	**Dr. Dimitris Lagoudas** Deputy Director, Texas A&M Engineering Experiment Station
10:30-11:00	**Break**
11:00-11:05	**Introduction** Dr. Joseph Mait, ARL Chief Scientist
11:05-11:35	**Open Campus Model: Accelerating Innovation and Discovery at ARL and Beyond** Dr. Thomas Russell, ARL Director
11:35-11:45	**Collaborative Mechanisms** Mr. Thomas Mulkern, ARL Technology Transfer
11:45-12:00	**Schedule Explanation** Ms. Wendy Leonard, ARL Open Campus Program Manager
12:00-2:30	Lunch – Mallette Tent
2:30-3:30	Afternoon Break – Mallette Tent
12:00-4:30	**Poster Sessions**

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12:30-4:30 Campaign Overviews

12:30-1:05 Information Sciences
1:05-1:40 Computational Sciences
1:40-2:15 Materials Research
2:15-2:50 Sciences for Lethality & Protection
2:50-3:25 Assessment & Analysis
3:25-4:00 Human Sciences
4:00-4:35 Sciences for Maneuver

12:30-5:00 Tours of Army Research Laboratory

Human Sciences

12:30-4:30 **HS1:** Cognitive Assessment, Simulation, and Engineering Laboratory (CASEL), Environment for Auditory Research Facility (EAR), Mission Impact through Neuro-Inspired Design (MIND) Laboratory, other facilities
12:30-2:30 **HS2:** Soldier Performance and Equipment and Advance Research (SPEAR) Facility
2:30-4:30 **HS3:** Soldier Performance and Equipment and Advance Research (SPEAR) Facility

Materials Research & Sciences for Lethality and Protection

12:30-4:30 **MR1:** Energetics, Composites and Coatings Polymer and Metals – Synthesis and Processing
12:30-4:30 **MR2:** Polymer and Metals – Synthesis and Processing Materials Characterization, Cold Spray, and Energy Coupled to Matter Technologies
12:30-4:30 **MR3:** Materials Characterization, Cold Spray, and Energy Coupled to Matter Technologies & Energetics, Composites and Coatings

Sciences for Maneuver & Analysis & Assessment

12:30–3:00 **SM1:** Propulsion & System Component Experiments Intelligent Vehicles, Logistics & Sustainment, and Airbase Experimental Facility 6/7

2:00–4:30 **SM2:** Propulsion & System Component Experiments Intelligent Vehicles, Logistics & Sustainment, and Airbase Experimental Facility 6/7

Computational Sciences

12:30-3:00 **CS1**: ARL Supercomputing Resource Center
2:00-4:30 **CS2:** ARL Supercomputing Resource Center

4:45–5:45 ARL Open Campus General Q&A
Wendy Leonard and Dr. Alma Wickenden

3:00-6:00 On-demand Bus Transportation

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6:30-8:00	Arrival and Badging at Ripken Stadium
7:00-8:00	On-demand Bus Transportation to APG
7:00-8:45	Continental Breakfast at Mallette Tent
9:00-9:10	**Welcome and Introduction** Dr. Alma Wickenden, ARL Associate for Research
9:10-9:30	**Major General John Wharton** Commanding General United States Army Research, Development
9:30-10:30	**Next Steps, Q&A, and Closing Remarks** Dr. Thomas Russell, ARL Director and S&T Campaign Representatives
10:30-11:00	Break
12:00-2:30	Lunch
2:30-3:30	Afternoon Break
11:00-4:30	**Poster Sessions**
11:00-5:00	**Tours of Army Research Laboratory**

Human Sciences

11:00-2:30	**HS4:** CASEL, EAR, MIND, other facilities
11:00-1:00	**HS5:** Soldier Performance and Equipment Advance Research (SPEAR) Facility
1:00-3:00	**HS6:** Soldier Performance and Equipment Advance Research (SPEAR) Facility
1:30-5:00	**HS7:** CASEL, EAR, MIND, other facilities
3:00-5:00	**HS8:** Soldier Performance and Equipment Advance Research (SPEAR) Facility

Materials Research and Sciences for Lethality & Protection

11:00-1:30	**MR4:** Energetics, Composites and Coatings
11:00-1:30	**MR5:** Polymer and Metals – Synthesis and Processing
11:00-1:30	**MR6:** Materials Characterization, Cold Spray, and Energy Coupled to Matter Technologies

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Materials Research and Sciences for Lethality & Protection

11:00-1:30 **MR4:** Energetics, Composites and Coatings
Polymer and Metals – Synthesis and Processing
Materials Characterization, Cold Spray, and Energy Coupled to Matter Technologies
1:30-5:00 **MR5:** Energetics, Composites and Coatings
Polymer and Metals – Synthesis and Processing
1:30-5:00 **MR6:** Polymer and Metals – Synthesis and Processing
Materials Characterization, Cold Spray, and Energy Coupled to Matter Technologies
1:30-5:00 **MR7:** Materials Characterization, Cold Spray, and Energy Coupled to Matter Technologies Energetics, Composites and Coatings

Sciences for Maneuver & Analysis & Assessment

11:00–1:30 **SM5:** Propulsion & System Component Experiments
Intelligent Vehicles, Logistics & Sustainment, and Airbase Experimental Facility 6/7
12:30–3:00 **SM6:** Propulsion & System Component Experiments
Intelligent Vehicles, Logistics & Sustainment, and Airbase Experimental Facility 6/7
2:00-4:30 **SM7:** Propulsion & System Component Experiments
Intelligent Vehicles, Logistics & Sustainment, and Airbase Experimental Facility 6/7

Computational Sciences

11:00-1:30 **CS3:** ARL Supercomputing Resource Center
12:30-3:00 **CS4:** ARL Supercomputing Resource Center
2:00-4:30 **CS5:** ARL Supercomputing Resource Center

4:00–5:30 ARL Open Campus Feedback Q&A
Wendy Leonard and Dr. Alma Wickenden

3:00-6:00 On-demand Bus Transportation