

Energy Challenges and Opportunities for Future Data-Driven Operations in the United States Air Force

Air Force Studies Board
Division on Engineering & Physical Sciences

DRAFT Workshop Agenda
April 27-29, 2020
Day 1: April 27, 2020

1000 – 1030 ET 0700 – 0730 PT	Introduction and Opening Remarks: Dr. Julie Ryan, Committee Chair
	Current Air Force Activities
1030 – 1115 ET 0730 – 0815 PT	Current Air Force Activities: Maj. Mary Kuconis, A2/6, and other A2/6 participants to be confirmed
1115 – 1200 ET 0815 – 0900 PT	Current Air Force Activities: Lt Col Will Woodward, Deputy Chief, Innovative Solutions, Air Force Warfighting Integration Capability (AFWIC) (other AFWIC speakers to be confirmed)
1200 – 1215 ET 0900 – 0915 PT	<i>Break</i>
1215 – 1300 ET	Speaker: Mr. Mark Correll, Deputy Assistant Secretary of the Air Force for 0915 – 1000 PT Environment, Safety, and Infrastructure (SAF/IEE)
1300 – 1345 ET 1000 – 1045 PT	<i>Lunch Break</i>
1345 – 1430 ET 1045 – 1130 PT	Speaker: Mr. Tim Tetreault, Program Manager for Energy and Water, SERDP & ESTCP (Strategic Environmental Research and Development Program and Environmental Security Technology Certification Program)
	Energy Sources: Now and in the Future
1430 – 1515 ET 1130 – 1215 PT	Speaker: Professor Willett Kempton, University of Delaware <i>“Impact of Changing Energy Resource Mix on the Power Grid”</i>
1515 – 1530 ET 1215 – 1230 PT	<i>Break</i>
1530 – 1615 ET 1230 – 1315 PT	Speaker: Professor Eric Wachsman, University of Maryland <i>“Electrochemical Energy Conversion and Storage Devices”</i>
1615 – 1700 ET 1315 – 1400 PT	Speaker: Mr. Asim Hussain, Bloom Energy <i>“Exploring Power Security with Microgrids”</i>
1700 – 1730 ET 1415 – 1430PT	Discussion and Day 1 Wrap-up
1730 ET/1430 PT	<i>Adjourn</i>

Day 2: April 28, 2020

1000 – 1030 ET Introduction, Recap of Day 1, and Discussion
0700 – 0730 PT

Energy and AI

1030 – 1115 ET Speaker: Dr. Jill Crisman, Technical Director for Artificial Intelligence, Office of the
0730 – 0815 PT Undersecretary of Defense—Research and Engineering

Previous Studies

1115 – 1200 ET Speaker: General Paul Kern, US Army (Ret)
0815 – 0900 PT

1200 – 1215 ET *Break*
0900 – 0915 PT

1215 – 1300 ET Speaker: Mr. James Murphy, Senior Systems Engineer, Idaho National Laboratory, and
0915 – 1000 PT Mr. Chris Dieckman, Systems Engineering Lead, Idaho National Laboratory

1300 – 1345 ET *Lunch Break*
1000 – 1045 PT

Pervasive Advanced Data Uses

1345 – 1430 ET Speaker: Dr. Mark Linderman, Senior Scientist, Command and Control Decision
Support, Information Directorate, Air Force Research Laboratory, Rome, NY
1045 – 1130 PT

Previous Studies (cont.)

1430 – 1515 ET Speaker: Dr. Anu Narayanan, RAND Corporation
1130 – 1215 PT

1515 – 1530 ET *Break*
1215 – 1230 PT

Energy-Efficient Computational Approaches

1530 – 1600 ET Speaker: Professor Saibal Mukhopadhyay, Georgia Institute of Technology
1230 – 1300 PT

1600 – 1630 ET Speaker: Professor Carole-Jean Wu, Arizona State University
1300 – 1330 PT

1630 – 1700 ET Speaker: Professor Sherief Reda, Brown University
1330 – 1400 PT

1700 – 1730 ET Discussion and Day 2 wrap-up
1400 – 1430 PT

1730 ET/1430 PT *Adjourn*

Day 3: April 29, 2020

1000 – 1030 ET Discussion and Day 2 recap
0700 – 0730 PT

Data Infrastructure Energy Needs
1030 – 1115 ET Speaker: Col. Matt Benigni, JSOC
0730 – 0815 PT

1115 – 1200 ET Speakers: Dr. Nikhil Krishnan, C3. aiGroup Vice President, Products, C3.ai, and
0815 – 0900 PT Mr. Udit Garg, C3.ai Senior Director, Products

1200 – 1215 ET *Break*
0900 – 0915 PT

1215 – 1300 ET Speaker: Mr. Anoop Mavath, Amazon Web Services
0915 – 1200 PT

1300 – 1345 ET *Lunch Break*
1000 – 1045 PT

Energy Supply Chain, Infrastructure, and Ecosystem Issues
1345 – 1415 ET Speaker: Mr. Marty Edwards, VP Operational Technology Security, Tenable
1045 – 1115 PT

1415 – 1445 ET Speaker: Mr. Sam Chanoski, Director, Intelligence, Electricity Information Sharing
1115 – 1145 PT and Analysis Center, North American Electric Reliability Corporation

1445 – 1515 ET Speaker: Mr. Perry Pederson, Technical Advisor for Embedded and ICS Security, Pacific
1145 – 1215 PT Northwest National Laboratory

1515 – 1530 ET *Break*
1215 – 1230 PT

1530 – 1600 ET Speaker: Mr. Ernie Hayden, Founder, 443 Consulting
1230 – 1300 PT

1600 – 1630 ET Speaker: Mr. Chris Sistrunk, Technical Manager ICS/PT, Fireeye
1300 – 1330 PT

1630 – 1715 ET Discussion and workshop wrap-up
1330 – 1415 PT

1715 ET/1415 PT *Adjourn*