**Multi-Domain Command & Control Workshop**

**Air Force Studies Board**

**Division on Engineering & Physical Sciences**

**Meeting**

**July 18-20, 2018**

**Washington, D.C.**

**Objectives**

**Identify future technological advancements (with emphasis on commercial advancements) that will impact the future multi-domain battlespace command and control environment;**

**Investigate possible models for getting access to the broad spectrum of data sources and cognitive predictive intelligence capability that could be critical in making informed, tailored, timely, and relevant decisions, necessary to achieve Air Superiority in the 2030 timeframe;**

**Explore options for investment “on ramps” and “off ramps” in the 2022 and 2025 timeframe for relevant capability in the 2030/2035 timeframe.**

**Schedule at a Glance**

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| **Wednesday, July 18, 2018** | **Thursday, July 19, 2018** | **Friday July 20, 2018** |
| **0800-1645**  **-Introduction**  **-Operational Perspectives**  **-Technology Opportunities Part 1** | **0800-1600**  **-Technology Opportunities Part 2**  **-Acquisition Challenges Part 1** | **0800-1230**  **-Acquisition Challenges Part 2**  **-Workshop Wrap-Up & Closing** |

**Meeting Location:**

National Academy of Sciences (NAS) Building

2101 Constitution Ave NW, Washington, DC 20418

**Day One - Wednesday, July 18, 2018**

*Day one will introduce the subject of the workshop, illustrate the operational landscape for multi-domain operations and command and control, and begin part one of a two-part discussion on the technology challenges facing MDC2 for the USAF.*

**Introduction and Opening Remarks**

0730-0800: Arrival

* Coffee and light breakfast available

0800-0815: Welcome and Opening Remarks

* Mike Hamel

**Operational Perspective**

0815-1015: Current Air Force and Joint MDC2 Operational Capabilities

* Brig. Gen. Saltzman, MDC2 Task Force Overview and Status
* Col. Douglas “Cinco” Demaio – Doctrine, AFWIC
* Brian “Bingo” Maclean

1015-1030: Break

1030-1200 – Flag Officers Perspective: Imagining Multi-Domain Operations and C2 in 2030

* Lt. Gen. Thompson, Vice Commander, USAF Space Command
* Mike Hamel (Lt. Gen. Ret)

1200-1300: Working Lunch

**Technology Opportunities and Challenges Part 1**

1300-1315: Introductory Remarks to Technology Opportunities and Challenges

* Marv Langston, Kirk Kern

1315-1345: Craig Lindsey, Aerospace Corporation

1345-1415: Moderated Q&A Session (Kirk Kern)

1415-1445: Todd Carrico, CEO Cougaar Software Inc.

1445-1515: Moderated Q&A Session (Marv Langston)

1515-1545: Mike Colson, Amazon Web Services USAF Solutions

1545-1616: Moderated Q&A Session (Wallace Bow)

1616-1645: Day One Wrap Up

1730: Evening Social (TBD)

**Day Two – Thursday, July 19, 2018**

*Day Two will close out the discussion on technology opportunities and move on to the challenges related to acquisition and other governing policies.*

**Technology Opportunities and Challenges Part 2**

0800-0815: Welcome and Opening Remarks for Day 2

* Mike Hamel

0815-0915: Wrap Up of Technology Discussion – Key Takeaways (Moderated by Marv Langston)

* Opening remarks (15 minutes) by Wallace Bow, Sandia National Lab, “The View from Sandia

0915-0945: LtGen Wally Moorhead, USAF (Ret), Operational Air/Space/Cyber C2 Perspectives

0945-1000: Moderated Q&A Session (Mike Hamel)

1000-1045: Maj. Gen. Kim Crider, Conversation with USAF Chief Data Officer

1045-1130: Break

**Acquisition Challenges Part 1**

1100-1130: Sheryl Thorp, The State of AF MDC2 Acquisition: “Where the AF is Going and the Challenges Faced” (Becky Winston Intro/Moderate)

1130-1200: Moderated Q&A Session

1200-1230: Working Lunch

1230-1300: Steven Hernandez, “Building Security in Through Acquisition”

1300-1330: Mark Duke, NDU, “Acquiring Secure Systems for Coalition Warfare: Making IT Work”

1330-1415: Moderated Discussion (Julie Ryan)

1415-1400: Break

1400-1430: “Leveraging Commercial Innovation” - DIUx Presentation

* Daniel Nelson, DUIx
* Additional Speaker [TBD]

1430-1500: Moderated Q&A

1500-1530: Ted Bowlds, “Acquisition Lessons: Thoughts from an AF PEO”

1530-1600: Day Two Wrap Up

1800: Informal Dinner (TBD)

**Day Three – Friday, July 20, 2018**

*Day three will close the discussion on acquisition and other policy challenges and move on to a wrap up panel discussion on the primary observations made during the workshop and key takeaways for the USAF moving forward.*

**Acquisition and Policy Challenges Part 2**

0800-0930: Discussion on “Disruptive Acquisition” (Marv Langston Intro/Moderate)

* Marv Langston – Focusing on Speed to Capability
* Al Munson – Acquisition Realism and Practicalities

0930-1030: “Implementing New Acquisition Authorities within the DOD/AF” (Marv Langston)

* Brett Scheideman, SAF/AQXE
* Jan Kinner, DAU-MW
* Mark Borowski – “IP and Data Rights Considerations”

1030-1045: Break

1045-1130: Mark Maybury: “Perspectives on Key Emerging Technology Issues”

1130-1230: Workshop Wrap-up Discussion – Summary, Conclusions, Next Steps

Adjourn