

## **Minutes of 06-Feb-2019 NDIA Systems & Mission Engineering Division Meeting**

**Date / Time:** 06-Feb-2019 / 0745 EST

**Location:** Lockheed Martin Global Vision Center  
2121 Crystal Drive; Arlington, VA 22202

**Agenda:** see attachment A

**Attendees:**

|                  |                                |
|------------------|--------------------------------|
| Canzian, Blaise  | L3                             |
| Daly, John       | BAH                            |
| Desai, Kushal    | BAH                            |
| Draper, Geoff    | Harris                         |
| Dunlap, Holly    | Raytheon                       |
| Elm, Joseph      | L3                             |
| Forbes, Sherman  | SAF/AQRE                       |
| Gelosh, Don      | WPI                            |
| Hynes, Dwayne    | ASD(A)                         |
| Lee, David E.    | NGC                            |
| Loren, Jeff      | SAIC                           |
| Moshinsky, Ed    | LM                             |
| Nidiffer, Ken    | SEI                            |
| Ocker, Cory      | Raytheon                       |
| Rassa, Bob       | Raytheon                       |
| Rodriguez, Lucy  | BAH                            |
| Roedler, Garry   | LM, INCOSE                     |
| Rosenbluth, Gene | NGC                            |
| Scheurer, Bob    | Boeing                         |
| Schreiber, Chris | LM                             |
| Shinko, Martin   | Logistics Management Institute |
| Trnka, Greg      | BAH                            |
| Wallace, Angela  | BAH                            |

### **Minutes / Notes**

- 0815
- J. Elm called meeting to order
  - Offered thanks to Garry Roedler and LM for hosting meeting
  - Led introductions of attendees
- 0830
- Presentation by Mr. Dwayne Hynes on “*Intelligence Implementation of Acquisition Agility and Integration with Systems Engineering Processes*” (See presentation posted on SEMD web site).
    - 470 Acquisition Intelligence Professionals in the services
    - Influencing acquisition: pre-program planning; RFP; SE planning and practice; Engineering specs and processes
    - Can provide secure access to historical databases for estimating: VOLTs on SIPRNET

- 3 major touchpoints: Requirements (MS A) – Acquisition (MS B) – Testing & Evaluation (MS C)
  - Much of this work is on the government side, with goal for greater industry engagement. Would like to inform industry in applicable areas, such as M&S, S&T investment, IP protection.
  - Expressed a desire for further engagement with NDIA SMED in development of workshop, etc.
  - Architecture and M&S Committees will follow up with Mr. Hynes
- 0915
- Presentation by Dr. Dinesh Verma on “*Update on the SERC Research Priorities*” (see presentation posted on SMED web site)
    - Major SERC thrusts over the past 10 years include:
      - SoS Modeling and Analysis; Enterprise Modeling (evolutionary requirements; MBSE);
      - System Security Engineering; System Assurance; Trusted Systems.
      - Agile SE; Affordability; Model-Centric SE; SE and Systems Mgmt Transformation; Quantitative Risk (leading indicators)
      - Body of Knowledge: BKCASE, SE case studies, HELIX.
    - Research areas and missions:
      - 4 thematic areas (vertical): Trusted Systems; Enterprises and SoS; SE and Mgmt Transformation; Human Capital Development
      - Cross-cutting areas (horizontal): Mission Engineering; Velocity; Security; AI/Autonomy; Digital Engineering
      - Challenges: improve speed; increase SE research and rigor; system assurance; workforce development; emerging technologies; enterprise transformation; managing complexity
    - Primary questions and research priorities:
      - Modeling system security; agility at scale; mission engineering; knowledge management; MBSE / digital engineering; analytics; autonomous systems; managing complexity
      - SERC Capstone Marketplace: Capstone projects designed to address real-world government and industry problems. Sponsoring 28 senior design teams, interacting directly with users and operators. Capstone Marketplace Summit: Thu Feb 28, 9am-2pm.
- 1000
- Presentation by Ed Moshinsky on “*Findings of the NDIA Mission Engineering Phase II Study*” (see presentation posted on SMED web site)
- 1015
- Presentation by Geoff Draper on “*Update on the Continuous Iterative Development and Acquisition Working Group (CIDAWG)*” (see presentation posted on SMED web site)
  - System Security Engineering Committee expressed desire to increase engagement with CIDAWG to ensure security is adequately addressed
- 1030
- Presentation by Bob Rassa on “*Update on DHS SE Effectiveness Study*”
  - Staffed by Bob Rassa and Tim White
  - Planning workshops with DHS

- 1100 • Presentation by Bob Rassa on “2019 Systems Engineering Conference update” (see presentation posted on SMED web site).
  - 2019 Conference at Hilton Downtown, Tampa FL on 21 thru 24-Oct
- 1115 • Presentation by Joe Elm of updated SME Division Organization Chart
- Presentation by Joe Elm of SME Division Action Items (see presentation posted on SMED web site).
- All assignees requested to provide expected closure dates for assigned action items
- 1130 • Presentation of Committee Reports by committee chairs (see presentation posted on SMED web site).
- 1230 • Discussion led by Joe Elm on Old Business, New Business, and Meeting Schedules
  - Charter is being updated to reflect change in Division name and focus from “Systems Engineering” to “Systems and Mission Engineering”. Ready for review by ExCom
  - 2019 Division meetings to be held at LM Global Vision Center on 10-Apr, 06-Jun, 08-Aug, 05-Dec
  - Requested suggestions for Gov’t speakers for future meetings
- 1245 • Adjourn

### **Actions**

See attachment B

## NDIA Systems Engineering Division Meeting Wednesday, 06 February 2019 AGENDA

**Meeting Location:** Lockheed Martin Global Vision Center  
2121 Crystal Drive; Arlington, VA 22202

*See next page for registration instructions, meeting location details, parking, etc.*

***NOTE: Advance registration via the NDIA website is required.***

| Time | Topic   | Presenter(s)  |
|------|---|---|
| 0745 | Coffee & Check-in   |   |
| 0815 | 1. Opening Remarks, Introductions   | Joe Elm, L3 Technologies  |
| 0830 | 2. Intelligence Implementation of Acquisition Agility and Integration with Systems Engineering Processes  | Ms. Lisa M. Mazur<br>Director of the Acquisition Intelligence Requirements Task Force USD(A&S)  |
| 0915 | 3. Update on the SERC Research Priorities   | Dr. Dinesh Verma<br>Executive Director<br>Systems Engineering Research Center (SERC)  |
| 1000 | 4. Findings of the NDIA Mission Engineering Phase II Study  | Ed Moshinsky, Lockheed Martin   |
| 1015 | 5. Update on the Continuous Iterative Development and Acquisition Working Group (CIDAWG)  | Geoff Draper, Harris  |
| 1030 | 6. Update on DHS SE Effectiveness Study   | Bob Rassa, Raytheon   |
| 1045 | Coffee Break  |   |
| 1100 | 7. 2019 Systems Engineering Conference update   | Bob Rassa, Raytheon   |
| 1115 | 8. SE Division Action Items   | Joe Elm, L3 Technologies  |
| 1130 | 9. Committee Reports<br><i>Brief overview of status and plans for 2019</i>  | Committee Chairs  |
|      | <ul style="list-style-type: none"> <li>• 9a Agile &amp; SE Working Group</li> <li>• 9b Architecture Committee</li> <li>• 9c Automatic Test Committee</li> <li>• 9d DT&amp;E Committee</li> <li>• 9e Education &amp; Training Committee</li> <li>• 9f Enterprise Health Mg't Committee</li> <li>• 9g ESOH Committee</li> <li>• 9h Human Systems Integ. Committee</li> <li>• 9i Modeling &amp; Simulation Committee</li> <li>• 9j Software Committee</li> </ul> | Norton / Maness<br>Scheurer / Moshinsky<br>Orlidge/Griffen/Savage<br>Manas<br>Snoderly / Gelosh / Nidiffer<br>Reisig<br>Schulte / Forbes<br>Risser / Hagale<br>Allsop / Schreiber<br>Nidiffer |

**Attachment A: Agenda**

|      |  |  |
|------|--|--|
|      | <ul style="list-style-type: none"><li>• 9k System of Systems (w/ Interoperability) Committee</li><li>• 9l SE Effectiveness Committee</li><li>• 9m Systems Security Eng'g Committee</li></ul> | Poel / Dahmann / Horne<br>Elm / White<br>Dunlap / Reed |
| 1230 | Old Business, New Business, Next Meetings  | All  |
| 1245 | Adjourn main meeting   |  |

## **SE Division Meeting Logistics Meeting, Registration, and Security Clearance Instructions**

Meeting location is the main auditorium in the Lockheed Martin Global Vision Center at 2122 Crystal Drive; Arlington, VA 22202

Nearest Metro stop is Crystal City on the Yellow and Blue lines, about 0.4 miles away.

Parking is available within the building for a fee

There is no registration fee for the meeting.

Visit Requests and Security Clearances are not needed. However, LM does need advance notice of the people who will be attending. Please go to the NDIA website to register for this meeting.

For additional information, please contact Dave Chesebrough at NDIA [dchesebrough@NDIA.ORG](mailto:dchesebrough@NDIA.ORG), 703- 247-2597 or Tatiana Jackson at NDIA [tjackson@NDIA.ORG](mailto:tjackson@NDIA.ORG), 703-247-9479.

Committee Meetings being held in conjunction with the full SE Division Meeting are shown below. All Systems Engineering Division members are invited and welcomed to participate in any of the Committee meetings.

| <b>Committee</b>                             | <b>Time</b> | <b>Location</b> |
|--|-------------|-----------------|
| Agile & SE Working Group                     |             |                 |
| Architecture Committee                       |             |                 |
| Automatic Test Committee                     |             |                 |
| DT&E Committee                               |             |                 |
| Education & Training Committee               |             |                 |
| Enterprise Health Management Committee       |             |                 |
| ESOH Committee                               |             |                 |
| Human Systems Integration Committee          |             |                 |
| Modeling & Simulation Committee              |             |                 |
| Software Committee                           |             |                 |
| System of Systems (w/ Interoperability) Cmte |             |                 |
| SE Effectiveness Committee                   | n/a         | n/a             |
| Systems Security Engineering Committee       |             |                 |

**Attachment B: Actions****NDIA SE Division Action Items**

| ID      | Assigned | Description   | Responsible   | Status   | Due    | Planned | Closed | Notes |
|---------|----------|---|---|----------|--------|---------|--------|-------|
| 2018-02 |          | SE gaps and issues for DHS  | Rassa, SEE, T&E Division                              | On-going |        |         |        |       |
| 2018-06 |          | INCOSE and NDIA SE Collaboration  | Elm & Roedler   | On-going |        |         |        |       |
| 2018-07 |          | Push for more interdivisional activity  | Serna, Rassa, Elm                                     | On-going |        |         |        |       |
| 2018-03 |          | AT, SSE, SW, and DTE committees collaboration to address JFAC and Assurance missions                    | Griffin, Manas, Nidiffer & Dunlap                     | Open     |        |         |        |       |
| 2018-09 | 2/18/18  | Semantic Web – invite Dinesh Verma to speak on this topic at the next SED meeting                       | Elm   | Closed   | 1/7/19 | 1/7/19  | 1/7/19 |       |
| 2018-12 |          | Plan an Autonomous Systems and SE challenges workshop (reach out to NASA Armstrong, FAA)                | Serna, T&E Division, Ed Kraft, Roedler, Robotics Div. | Open     |        |         |        |       |
| 2019-01 | 12/13/18 | Develop a response to the USAF (Col. Abbott) request for help with Virtual Technical Reviews            | Schreiber   | Open     |        |         |        |       |
| 2019-02 | 12/13/18 | Develop a response to the USAF (Col. Abbott) request for help with developing the Engineering Workforce | Gelosh  | Open     |        |         |        |       |
| 2019-03 | 12/13/18 | Develop a plan to facilitate Industry ChEng visits to OSD (rather than CEO visits)                      |   | Open     |        |         |        |       |
| 2019-04 | 12/13/18 | Develop a response to USN (Michael Doctor) request for an affordability workshop                        |   | Open     |        |         |        |       |
| 2019-05 | 12/13/18 | Develop a response to JFAC (Tom Hurt) request for SwA workshop(s)                                       | Nidiffer / Daly                                       | Open     |        |         |        |       |

**Attachment B: Actions**

|            |            |   |                  |      |            |            |            |            |
|------------|------------|---|------------------|------|------------|------------|------------|------------|
| 2019-06    | 12/13/18   | Develop a response to USD(A&S) (Jeff Boleng) request for CIDA impact on IP and data rights  | Elmazaj          | Open |            |            |            |            |
| 2019-07    | 12/13/18   | Develop a plan with Phil Zimmerman for Tool interoperability workshops  | Schreiber / Daly | Open |            |            |            |            |
| 2019-08    | 12/13/18   | Liaise with DEXWG on deliverables in a Digital Engineering environment  | Schreiber        | Open |            |            |            |            |
| 2019-09    | 12/13/18   | Work with NDIA HQ to advance NDIA file sharing and remote conferencing services   | Elm              | Open |            |            |            |            |
| 2019-10    | 6-Feb-19   | Architecture Committee to engage with Dwayne Hynes to plan on-going collaboration between S&ME Division and Acquisition Intelligence Requirements Task Force          | Scheurer         | Open |            |            |            |            |
| 2019-11    | 6-Feb-19   | Modeling & Simulation Committee to engage with Dwayne Hynes to plan on-going collaboration between S&ME Division and Acquisition Intelligence Requirements Task Force | Schreiber        | Open |            |            |            |            |
| <b>end</b> | <b>end</b> | <b>end</b>  | <b>end</b>       |      | <b>end</b> | <b>end</b> | <b>end</b> | <b>end</b> |