APG 2020 APBI / Tech Expo

Industry White Paper Panel Discussion Sessions Process

April 2020

Instructions

1. Papers will be solicited on 5 topics, nominated from the following general interest areas
   a. IEW&S
   b. C3T
   c. C5ISR Additive Manufacturing
   d. Research and Development
   e. Chem Bio
2. Evaluation committee will be made up of one representative from the following organizations
   a. APG Industrial Reps Association
   b. AFCEA
   c. AUSA
   d. Army Alliance
   e. NDIA
   f. NMTC
   g. AOC
3. Chairman for the board will be John Thoma, BANC3. Past President of the IRA
4. Papers will be solicited on or about 1 January, via email distribution to the members of the 7 organizations. An announcement will also be posted on the MissionTix site, and it will link to the IRA Page which will detail the process
5. Papers will be submitted via email to a Gmail account accessible by committee members. The address of this account is: apg.apbi.panel.2020@gmail.com
6. Papers will be limited to 5 pages.
7. Papers will be due by 1 March
8. Papers will be reviewed by the committee from 1 March – 20 March. Committee will then meet around 25 March to make the final decisions on the four presenters for each topic, and 1 alternate
9. Presenters will be contacted around 1 April, and will be notified of their selection, and will be given until 5 April to accept. If they accept, they will be expected to present at APBI.

Subject Areas

IEW&S

- What are the impacts of Quantum Computing / advanced ML/AI to today's encryption standards? How can we prepare for advanced high-speed decoding?

- What is industry doing with other DoD partners to address large scale data sharing among various Federal / DoD Partners. How do you enable sharing of data, in real-time with enhanced analytics performed on that data?
- How can we enable more compute / data analytics at the edge - with limited connectivity and a highly mobile environment?
- The role of Modeling & Simulation in support of the Assured Positioning, Navigation, & Timing (APNT) analytical objectives.

C3T - CMOSS

- What are Industry's thoughts on CMOSS (C4ISR/EW Modular Open Suite of Standards) and the expanded focus across DoD?

C5ISR

- How are you leveraging additive manufacturing technology to more efficiently deliver capabilities to Army, Joint Warfighters or other DoD entities? How would this additive manufacturing concept integrate into a C5ISR supply chain model?

Research and Development

- How can Industry address Intelligent / Adaptive Artificial Intelligence to enable effective decisions with the Soldier?
- What can industry do with increasing demands on power? How do we increase battery usage / reduce generator demands? How can we reduce power draw as we increase compute power?
- With the Advent of HPC, traditional encryption algorithms may quickly become obsolete. What new methodologies could replace legacy techniques?

Chem Bio

- How can we better leverage Chemical and Biological sensor data collection? How is data being collected, stored, and used in today's learning models? What are the best practices for specific industries?
- What are new Chemical / Biological sensors available which the Army could be utilizing. What enhancements / efficiencies / accuracy is gained from these new sensor technologies?