**Langley Contractor Steering Council Meeting Minutes**

**January 18, 2024 @ 2PM – 3PM**

Hybrid Meeting – 29 online / 20 in person

Meeting Started: 2:00PM

**Chris Fannin:** Welcome everyone to our 2024 Kick Off Meeting! Our goal this year is to provide more opportunities for “steering” and provide feedback to the Center from Contractors.

**Jon Kelly:**

* Update for VASBA:
  + VASBA Kickoff - 1st VASBA Luncheon since 2019 was today.
    - Dave Young spoke about LIFE
    - Mr. Rick Dwyer, Executive Director of the Hampton Roads Military and Federal Facilities Alliance (HRMFFA)
  + Aerospace Day coming up on Feb 7, 2024
  + We are planning for another Luncheon in 6 weeks with 2 more speakers lined up.
    - Chris: Any specific meetings for VABA at Aerospace Day? Anyone to contact for more info?
    - Jon: Please contact Jon Kelly or Laura Blumberg for more info.

**Rob Betts:**  (On Leave)

* Slides avail via LCSC website

**Guest Speaker:**

**Nathanael Miller - Engineering Directorate**

* Exploring Opportunities - Advanced Manufacturing and Market Discovery Headspace
  + What does the world need?
  + The LCSC Committee wants to take 5 minutes during these meetings to discuss Additive Manufacturing.
  + It is a need that the nation has. Overview of Additive Manufacturing in the DOD.
  + Our call- what STMD is calling for - need manufacturing processes that are ready to use.
* Where’s your curiosity and do you want to do anything in that area?
  + Technology usually is led by commercial industry- could you comment on how the transition of technology where fundamentals are different? How do you bridge the technologies?
    - Nathanael: Agendas and implementations are different.
  + Additive manufacturing at other NASA sites. Nozzles that are additively manufactured at MSFC.
  + Scouting teams! Scouting opportunity with NASA and DOD. Wind Tunnel portfolio to bring what OEMS are doing with their portfolio. What’s happening at Langley and how to bring it in from outside. More funding on commercial side.
  + The tech is out there but unable to adopt. Scout the need. Certification/qualification. How to tap other orgs that have those needs.
  + Have you done a survey with RD to what they’ve already funded? RD could provide advance composites consortium work done already at LARC. May be some lessons learned. How do you spend money on a shared objective?
  + Possibly interesting for NIST and NSF Industry/University Cooperative Research Center for Advanced Manufacturing (LAM) standards might be interesting translation for DOD. I think Dr. Gupta from LPT.
  + Can machine learning and digital twin advancement help with fault detection and reduction with additive manufacturing?
  + Dollars spent where highest value IRAD type dollars spent map. How to go from a TRL 4 to 7?
  + Digital Twin being applied in these areas? And any opportunity?
  + Work at LARC demonstrating that peer research.
  + As you keep evolving software, how can we share with other industry? How material and structure holds.
  + Aerospace industry has long way to go but ton of opportunity. If AI can have models build it, cheaper ways to do it thru AI would be helpful.
  + What new risks do you introduce and maintain in censors? How are you going to maintain sensing and make sure its always working? Aircraft and fault detection- significant fidelity needed. Making sure software is not making errors. Risk introduced by leaving it up to computers.
  + Statistic- DOD has lost 80% casualties in last decade in tasks related to moving fluid (water/fuel). At high level, it’s a Moon base problem.

**New Business:**

* None

Meeting Ended: 2:45PM

Notes Taken By: Jenny Monokrousos, AMA