



OSD(P) DTIP Future Innovations Forum

Oct 11th

**Time: 13:00-14:00
ET**

PRESENTER:

Dr. Thomas Campbell

**CEO and Founder
Futuregrasp LLC and LEAP Manufacturing**

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MODERATORS:

**DoD Host
OUSD(P)**

**Dr. Lance G. Hampton
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**Defense Technology
Innovation Program Mr.
Nino Marcantonio
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Phone: XXXXXXXXXXXXXXXXX**

The overall classification of this briefing is: **UNCLASSIFIED**



OSD(P) DTIP DTIP Future Innovations Forum *DIAL-IN INSTRUCTIONS*

ATTENDANCE IS VIRTUAL VIA TELECONFERENCE

AUDIO-ONLY (NO VIDEO PRESENTATION)

Participants are advised to follow with the PDF Presentations for each of the presenters being featured in the call.

Primary Dial-In: XXXXXXXXX for the call in, with XXXXXXXXXXXXX# Meeting ID

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OSD(P) DTIP DTIP Future Innovations Forum *PRESENTATION GOALS*

OSD(P) GOALS

OSD(P) is working with the Defense Technology Innovation Program LLC (DTIP). The OSD(P) DTIP Future Innovations Forum goals are to present breakthrough technologies that have direct application to the challenges of today's warfighter and, for OSD(P) itself, to find technologies that enhance and streamline business processes, bring records management into the 21st century, facilitate collaboration and coordination, enhance knowledge management, facilitate senior-level decision-making, and support Action Officers in DoD with better tools for research and planning connected with their missions.

This Forum introduces cross-level revolutionary technologies that impact present and future operational concepts and capabilities for the Joint Commanders and Interagency leaders across the spectrum of conflict. DTIP scouts, identifies, evaluates, and delivers technologies from around the globe that can create direct and indirect military applications to enhance the security and capabilities of the United States of America.

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OSD(P) DTIP DTIP Future Innovations Forum *PRESENTATION BRIEF*

LEAP MANUFACTURING

The LEAP Manufacturing consortium is building a research and industry partnership designed to be the leading force for accelerating advanced energy systems (specifically, new sustainable batteries for grid energy storage and transportation systems, including electric vehicles and aerospace).

LEAP objective is twofold:

- (1) foster creation of new battery chemistries for storage, and
- (2) develop techniques to minimize use of materials in increasingly short supply across an ecosystem of domestic manufacturers.

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OSD(P) DTIP DTIP Future Innovations Forum *PRESENTATION BRIEF*

LEAP MANUFACTURING BRIEF

In addition to the urgent global need for new batteries, today's energy storage technologies rely on critical materials like lithium, cobalt, and nickel. Such reliance places the United States at risk of being cut-off from foreign sources and is likely to slow the ongoing transition to renewables and fleet electrification. Moreover, China currently produces more than 80% of the world's batteries; the cost of critical materials have soared in the last few months; and it is now acknowledged that demand exceeds supply. LEAP Manufacturing is assembling a national consortium focused on enabling the use of materials in energy systems that the United States holds in abundance - e.g., Sodium, Carbon, Silicon, Iron, Zinc, and Manganese. An emphasis within LEAP Manufacturing is on advanced numerical modeling to assess the fundamental performance of new battery chemistries in silico prior to prototype development, testing, and manufacturing. LEAPs' world class consortium is also ready to help solve near-term challenges in lithium-ion batteries.



OSD(P) DTIP DTIP Future Innovations Forum *PRESENTATION AGENDA*

THE AGENDA FOR THE TELECONFERENCE

| | | | | |
|------------------------|---------------------------|-----------------|-----------------|------------|
| Introduction | and | Attendee | Check-In | 2 Minutes |
| Opening | Remarks | OSD(Policy) | | 3 Minutes |
| Opening | Remarks – DTIP | | | 2 Minutes |
| Presentation: | LEAP Manufacturing | (Dr. Campbell) | | 35 Minutes |
| Questions & Discussion | Period | | | 5 Minutes |
| Closing | Remarks | OSD Policy/DTIP | | 15 Minutes |

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