



OSD(P) DTIP Future Innovations Forum

June 8th

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

PRESENTER:

Mr. Richard Bandurich

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MODERATORS:

**DoD Host
OUSD(P)**

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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.

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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*

Field Propulsion Technologies Inc.

Field Propulsion Technologies is developing the next generation of propellant-less propulsion devices created from our DARPA project. Under our DARPA project, we developed ultra-high electric current velocity composites and infinite impedance power sources that, when used together, produced a new class of forces that have been written out of electromagnetics. These forces were characterized and mathematically modeled by us to demonstrate how these newly discovered forces could be used to build a new next-generation propulsion system that could replace all forms of propulsion systems used today.

At the 2020 JANNAF 68th Propulsion Meeting, we presented the results from our DARPA project from an assembly of these composite current elements that produce 100s of Milli-Newtons of vertical forces from milliamperes of electric current. These composite current elements produced an external action force whose reaction force was redirected into a tension force inside the composite. This force redirection creates a brand new propellant-less propulsion device where the reaction force from Newton's equations stresses a material instead of producing an opposing force to generate thrust.

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PRESENTATION BRIEF

This force redirection is a game-changer for the space and defense industries. Being able to produce an external force from a material converted into a stress force inside the material is unknown today. These force redirections were written out of electromagnetic by applying the Lorenz and Coulomb gauges. These fudges to the equations of electromagnetics have caused science to overlook this class of force interactions. This redirection of the reaction forces can also be used to increase the strength of a composite armor by applying an electric current through the composite. Relatively light, thin, and flexible compact armor with a low internal strength can instantly be converted into a high-strength solid armor by applying an electric current.

Devices created from this brand new technology have the opportunity to replace all forms of getting into space, air transport, and terrestrial and underwater propulsion systems by creating propulsion systems with no external interactions with the environment. These devices can transform the US military into a fighting force that can't be defeated. Military vehicles could be propelled off the ground or into space with just electricity. These identical vehicles could defend themselves with a relatively light armor that strengthens itself differently for every threat; as the threat approaches, the armor would change its strength characteristics just enough to neutralize the incoming threat. From small fighting vehicles to personal warfighting suits to space vehicles, the technology could allow warfighters and terrestrial vehicles to operate from the deep ocean to the outreaches of space as they do now on the surface and in the earth's atmosphere.

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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:	Field Propulsion Tech	(Richard B.)	40 Minutes
Questions & Discussion	Period		5 Minutes
Closing	Remarks		3 Minutes

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OSD(P) DTIP DTIP Future Innovations Forum *Coming Up Next Forum June 22th*

Looking Ahead to June 22nd, 1300 to 1430 et

Presentation 1: Fortem Technologies Inc. presents Detecting and Defeating Dangerous Drones Advanced AI at the Edge in radar and robotics; Complete and robust end-to-end solution

Presentation 2: MorphOptic Inc. presents a non-abrasive, thin glass optical quality lens shape manufacturing system that applies lens curvature to ultra-thin 3D printed optical surfaces.

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