

PURDUE / NSWC CRANE/DOD CONTRACTOR EDUCATIONAL SUMMIT

DATE: APRIL 8TH – 9TH, 2019

LOCATION: HALL OF DISCOVERY AND LEARNING RESEARCH BUILDING (DLR)

DAY 1 - APRIL 8TH: SUMMIT AGENDA

	<p>Location: Hall of Discovery and Learning Building, Room 131. Parking at DLR Parking Lot. Map to DLR Parking Lot.</p>
12:00 PM – 12:55 PM	Lunch and Networking Provided by iGSDI
12:55 PM – 1:00 PM	Greetings from Purdue – Dr. Tomás Díaz de la Rubia, Vice President for Discovery Park
1:00 PM – 1:15 PM	<p>Introductions – Dr. Stephen Beaudoin, Professor, Davidson School of Chemical Engineering; Director, Purdue Energetics Research Center (PERC); Doreen Gonzalez-Gaboyan, Program Manager for Purdue at WestGate</p> <ul style="list-style-type: none"> – Background on Purdue Activities at WestGate – Purdue Faculty Advisory Committee (PFAC) and its Roles – Importance of NSWC Crane and DOD Contractor Collaboration with PFAC
1:20 PM – 1:35 PM	<p>Why the Summit – Dr. Dan DeLaurentis, Professor, School of Aeronautics and Astronautics; Director, Institute for Global Security and Defense Innovation (i-GSDI)</p> <ul style="list-style-type: none"> – Importance of a Global Strategy for Educational Programs at WestGate – Creating an Environment to Foster a Deep and Meaningful Collaboration
1:40 PM – 2:10 PM	<p>NSWC Crane Mission – Patricia Herndon, Director Special Warfare and Expeditionary Systems, NSWC Crane</p> <ul style="list-style-type: none"> – Overview of NSWC Crane’s Mission – How Education Will Impact Crane’s Goals – High Priority Education Needs at NSWC Crane – Questions and Answers
2:15 PM – 2:45 PM	<p>Dual MS Degree – Dr. Stephen Beaudoin</p> <ul style="list-style-type: none"> – Dual Masters Structure – High Priority Courses
2:50 PM – 3:10 PM	Break
3:15 PM – 3:45 PM	<p>Strategy for Educational Programming and Research – Jenna Dix, Acting Office of Research and Technology Application Technology Transfer Manager, NSWC Crane; Dr. Bryan Woosley, NSWC Crane University Liaison</p> <ul style="list-style-type: none"> – NSWC Crane Research and Partnership Opportunities Overview
3:50 PM – 4:05 PM	<p>DOD Community at WestGate – Greg Sapp, Vice President/Chief Operations Officer, Artisan Electronics; James Parsch, Vice President Strategic Programs, TRISTAR; Jack Terrell, Senior Project Manager, SAIC</p> <ul style="list-style-type: none"> – How Education Will Impact the DOD Community in Southwest Central Indiana – Company Planning for Educational Programming for Workforce Demands
4:10 PM – 4:15 PM	<p>Closing and Next Steps – Dr. Stephen Beaudoin</p> <ul style="list-style-type: none"> – Action Items – Schedule for Lab Tours

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DAY 2 - APRIL 9TH: LAB TOURS

GROUP 1: ENERGETICS RESEARCH

8:35 AM – 8:45 AM

Attendees Meet at DLR Parking Lot and van over to Zucrow Labs. Van transportation will be provided by Purdue. [Map to DLR Parking Lot.](#)

9:00 AM – 12:00 PM

LAB TOURS:

- **Zucrow Labs (Host, Tim Manship):** Combustion and Detonation, Gas Gun Impact, 3D Energetics Printing, Laser Diagnostics of Combustion of Explosive Events.
- **Herrick Lab (Host, Tim Manship):** 2D and 3D printing of energetic materials including inkjet, FDM, and Vibration Assisted Printing. conductive energetic films. Mechanical Property Testing of energetic materials including tension, DMA, and ultrasonic vibration response (both inertial driven and sonically driven).
- **FLEX (Host, Tim Manship):** PERC HQ, new energetic materials synthesis and crystallization lab. Next-door to the Particulate Products and Processes (CP3) lab giving access to MicroCT and particle analyzer equipment.

12:30 PM

Attendees Return to DLR Parking Lot and Depart for Crane

GROUP 2: POWER, ENERGY, QUANTUM RESEARCH

8:35 AM – 8:45 AM

Attendees Meet at DLR Parking Lot (walk to BIRCK to meet host). Van transportation will be provided by Purdue. Link: [Map to DLR Parking Lot.](#)

9:00 AM – 9:30 AM

LAB TOURS:

- **Quantum Research Discussion with Profs. Peter Bermel, Yong Chen and Vlad Shalaev (BRK Room 2290).**
- **BIRCK (Host, Dr. Peter Bermel and Dr. Nithin Raghunathan):** Birck Tour with R2R Lab, Optics Lab, MBE Lab.
- **VIPER (Host, Vihang Parikh):** Lab specializes in making new types of batteries and addressing safety through design (funded by ONR).
- **Neil Armstrong Hall (Host, Vihang Parikh, Bing Li):** Lab specializes in analyzing batteries for failure under naval dynamic environments as specified in Naval codes for submarines (funded by ONR) and developing a new breed of battery management systems.

12:30 PM

Attendees Return to DLR Parking Lot and Depart for Crane