

**NDIA**



# **SMALL BUSINESS INNOVATION SUMMIT AND SBIR TOPICS WORKSHOP**

**Informing Innovators from Idea to Point of Need**

December 13 – 14, 2022 | Lincoln, MA | [NDIA.org/SBIRWorkshop22](https://NDIA.org/SBIRWorkshop22)

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## NDIA

### WHO WE ARE

The National Defense Industrial Association is the trusted leader in defense and national security associations. As a 501(c)(3) corporate and individual membership association, NDIA engages thoughtful and innovative leaders to exchange ideas, information, and capabilities that lead to the development of the best policies, practices, products, and technologies to ensure the safety and security of our nation. NDIA's membership embodies the full spectrum of corporate, government, academic, and individual stakeholders who form a vigorous, responsive, and collaborative community in support of defense and national security. For more than 100 years, NDIA and its predecessor organizations have been at the heart of the mission by dedicating their time, expertise, and energy to ensuring our warfighters have the best training, equipment, and support. For more information, visit [NDIA.org](http://NDIA.org)



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# SCHEDULE AT A GLANCE

## TUESDAY, DECEMBER 13

**Legislative Updates / SBIR Reauthorization**  
9:00 – 9:30 am

**SBIR Transition Support: Federal & Regional Resources**  
9:30 – 10:00 am

**Panel Discussion: Driving Small Business Innovation Across the Services**  
10:15 - 11:15 am

**Presentation of Topics**  
11:15 am – 12:00 pm

**Presentation of Topics**  
12:45 – 1:55 pm

**One-On-One Concurrent Sessions**  
2:15 – 4:10 pm

## WEDNESDAY, DECEMBER 14

**OUSD(R&E) Manufacturing Technology**  
9:00 – 9:15 am

**Advanced Functional Fabrics of America (AFFOA)**  
9:15 – 10:15 am

**Break**  
10:15 – 10:30 am

**Advanced Robotics for Manufacturing (ARM) Institute**  
10:30 – 11:30 am

**Governor's Office, Commonwealth of Massachusetts**  
11:30 am – 12:00 pm

**Lunch**  
12:00 – 1:00 pm

**Academic & Industry Collaboration**  
1:00 – 1:30 pm

**Advanced Regenerative Manufacturing Institute (ARMI)**  
1:30 – 2:30 pm

# WELCOME TO NDIA SMALL BUSINESS INNOVATION SUMMIT AND SBIR TOPICS WORKSHOP

Welcome to the National Defense Industrial Association 2022 Small Business Innovation Summit & SBIR Topics Workshop. We are pleased and honored that you have chosen to attend. This is the eighth consecutive year of the SBIR Topics Workshop and the first year of our expanded programming into the Small Business Innovation Summit. With a hard-fought battle to both maintain the continuity and integrity of the SBIR Program, we are especially pleased to present this terrific line-up of esteemed speakers in our new two-day format.

As in previous years, a major part of the first day's agenda will be designated to the SBIR/STTR Program. We invite you to take advantage of the one-on-one meetings with SBIR Program Managers and technical experts here today to explore how your small business innovation can be brought to bear to address their agencies' specific needs.

The path from idea to prototype is just the first step of the journey. The focus of the second day is on how to evolve SBIR investments into more mature capabilities that can be delivered to the warfighter. With a purposeful mission to support the technology path forward informed by innovative manufacturing techniques and resources, we have the privilege of hearing from the leadership of three of DoD's Manufacturing Institutes; AFFOA, ARM and ARMI-Biofab.

I want to extend special gratitude to both our new and returning SBIR Program Managers at the Naval Sea Systems Command, Naval Air Systems Command, Navy SBIR Program Office, Missile Defense Agency, Army Research Laboratory, and US Special Operations Command. Thank you also to the extended NDIA team, at Headquarters, at the Division, and at the Chapter, for your continued support of this event and small business innovators across the defense ecosystem. A special note of appreciation for the outstanding support from the leadership at Army DEVCOM and UMass Lowell as we worked to expand the breadth and impact of the event this year.

Today is all about driving innovation to the warfighters. On behalf of NDIA's Small Business Division and the New England Chapter, I thank each of you for participation and wish you a meaningful and engaging day.

**ML Mackey**  
 Chair, NDIA Small Business Division  
 ExCom Member, NDIA National Board  
 CEO, Beacon Interactive Systems

## GET INVOLVED

Learn more about NDIA's Divisions and how to join one at [NDIA.org/Divisions](https://www.ndia.org/Divisions)



## LEADERSHIP AND COMMITTEES

**ML Mackey**  
 Division Chair

**Ally Veres**  
 Division Vice-Chair

# SMALL BUSINESS

## WHO WE ARE

NDIA's Small Business Division works to help small companies grow and remain a strong part of the defense industrial base. The Division's yearly educational conferences promote business skills and opportunities and offer insight into the needs of the defense community. Focus areas include fostering alliances between large and small businesses, and providing regular updates on legislation that may affect small businesses.

# EVENT INFORMATION

## LOCATION

UMASS Northstar Campus  
55 Old Bedford Road  
Lincoln, MA 01773

## WIFI

Free wifi is available in the building for all attendees and no password is required.

## SURVEY AND PARTICIPANT LIST

You will receive a survey via email and a list of participants (name and organization) after the conference. Please complete the survey to make our event even more successful in the future.

## EVENT CONTACT

**Kimberly Williams**  
Director, Meetings  
(703) 247-2578  
[kwilliams@NDIA.org](mailto:kwilliams@NDIA.org)

**Carizza Gutierrez**  
Program Manager, Divisions  
(703) 247-2599  
[cgutierrez@NDIA.org](mailto:cgutierrez@NDIA.org)

## HARASSMENT STATEMENT

NDIA is committed to providing a professional environment free from physical, psychological and verbal harassment. NDIA will not tolerate harassment of any kind, including but not limited to harassment based on ethnicity, religion, disability, physical appearance, gender, or sexual orientation. This policy applies to all participants and attendees at NDIA conferences, meetings and events. Harassment includes offensive gestures and verbal comments, deliberate intimidation, stalking, following, inappropriate photography and recording, sustained disruption of talks or other events, inappropriate physical contact, and unwelcome attention. Participants requested to cease harassing behavior are expected to comply immediately, and failure will serve as grounds for revoking access to the NDIA event.

## EVENT CODE OF CONDUCT

NDIA's Event Code of Conduct applies to all National Defense Industrial Association (NDIA), National Training & Simulation Association (NTSA), and Women In Defense (WID) meeting-related events, whether in person at public or private facilities, online, or during virtual events. NDIA, NTSA, and WID are committed to providing a productive and welcoming environment for all participants. All participants are expected to abide by this code as well as NDIA's ethical principles and practices. Visit [NDIA.org/CodeOfConduct](https://www.ndia.org/CodeOfConduct) to review the full policy.

## REAL-TIME Q&A



**Slido** is an audience engagement platform that allows users to crowd-source top questions to drive meaningful conversations and increase crowd participation. Participants can up-vote the questions they would most like to hear discussed. Simply tap the thumbs-up button to up-vote a question. Top questions are displayed for the moderator and speaker to answer.



Event code: **SBIR22**

# AGENDA

**TUESDAY, DECEMBER 13 – DAY 1**

7:30 am – 4:00 pm

All times are in EDT

## **REGISTRATION**

LOBBY

8:30 – 9:00 am

## **OPENING REMARKS**

MAIN STAGE

### **ML Mackey**

Chair, NDIA Small Business Division  
CEO, Beacon Interactive Systems

### **The Honorable David Norquist**

President & CEO, National Defense Industrial Association (NDIA)  
*Pre-recorded*

### **VADM William Galinis, USN**

Commander, Naval Sea Systems Command (NAVSEA)  
*Pre-recorded*

### **Jason Schroepfer**

SBIR/STTR Program Manager, Naval Sea Systems Command (NAVSEA)

### **Dr. M. Roman Hachkowski**

Chair, NDIA New England Chapter  
General Manager, L3Harris

9:00 – 9:30 am

## **LEGISLATIVE UPDATES / SBIR REAUTHORIZATION**

MAIN STAGE

### **Ally Veres**

Vice Chair, NDIA Small Business Division  
VP, Business Development, AEG Group

### **Kea Matory**

Director of Legislative Policy, NDIA

9:30 – 10:00 am

## **SBIR TRANSITION SUPPORT: FEDERAL & REGIONAL RESOURCES**

MAIN STAGE

### **Bob Smith**

Director, SBIR/STTR Program, U.S. Navy

### **Stacy Swider**

Investments Vice President, MassVentures

10:00 – 10:15

## **BREAK**

NEXUS CENTER

10:15 - 11:15 am

## **PANEL DISCUSSION: DRIVING SMALL BUSINESS INNOVATION ACROSS THE SERVICES**

MAIN STAGE

### **ML Mackey**

Chair, NDIA Small Business Division  
CEO, Beacon Interactive Systems  
*Moderator*

### **Jason Schroepfer**

SBIR/STTR Program Manager, Naval Sea Systems Command (NAVSEA), U.S. Navy

### **Tony Archer**

SBIR/STTR Portfolio Manager, Naval Air Systems Command (NAVAIR), U.S. Navy

### **Zeke Topolosky**

Chief of the Strategic Partnership Office, DEVCOM Army Research Laboratory, U.S. Army

### **Tina Barnhill**

SBIR/STTR Program Manager, Missile Defense Agency

### **Mina Khalil**

SBIR/STTR Program Manager, U.S. Special Operations Command

### **Kelley Kiernan**

Director, Blue Cyber, U.S. Navy SBIR Program Office

11:15 am – 12:00 pm

## **PRESENTATION OF TOPICS: NAVSEA**

MAIN STAGE

### **Howard Franklin**

Technology Manager, Headquarters/Directorates

### **Melanie Parks**

PEO Carriers

### **Jennifer Greenwood**

Technology Manager, PEO Submarines

### **Roberto Sanchez**

Technology Manager, PEO Submarines

12:00 – 12:45 pm

## **LUNCH & NETWORKING BREAK**

CAFETERIA

12:45 – 1:55 pm

## **PRESENTATION OF TOPICS: NAVSEA AND NAVAIR**

MAIN STAGE

### **Douglas Marker**

Technology Manager, PEO Integrated Warfare Systems

### **Emily Novak**

Technology Manager, PEO Ships

### **Tony Archer**

SBIR/STTR Portfolio Manager, Naval Air Systems Command (NAVAIR), U.S. Navy

1:55 – 2:00 pm

**CLOSING REMARKS | ONE-ON-ONE MEETINGS START**

MAIN STAGE

**ML Mackey**Chair, NDIA Small Business Division  
CEO, Beacon Interactive Systems**ONE-ON-ONE CONCURRENT SESSIONS**

2:15 – 4:10 pm

**ONE-ON-ONE CONCURRENT SESSIONS**

NEXUS CENTER

10-minute individual one-on-one sessions with SBIR Program Managers from  
NAVAIR, NAVSEA, ARMY, SOCOM, MDA, HQ/DIR.**WEDNESDAY, DECEMBER 14 – DAY 2**

8:30 am – 8:35 am

**OPENING REMARKS**

MAIN STAGE

**ML Mackey**Chair, NDIA Small Business Division  
CEO, Beacon Interactive Systems

8:35 – 9:00 am

**KEYNOTE**

MAIN STAGE

**Mathew Correa**DEVCOM, U.S. Army  
*Introducer***BG David Trybula, USA**

Deputy Commanding General, DEVCOM, U.S. Army

9:00 – 9:15 am

**OUSD(R&E) MANUFACTURING TECHNOLOGY**

MAIN STAGE

**Tracy Frost**

Director, DoD Manufacturing Innovation Institutes

9:15 – 10:15 am

**ADVANCED FUNCTIONAL FABRICS OF AMERICA (AFFOA)**

MAIN STAGE

**Sasha Stolyarov**

CEO, Advanced Functional Fabrics of America (AFFOA)

**Carolyn Kirk**

Execute Director, Massachusetts Technology Collaborative (MTC)

**Ben Linville-Engler**Chief Investment Strategist and Program Executive,  
Massachusetts Technology Collaborative (MTC)



10:15 – 10:30 am

## **BREAK**

NEXUS CENTER

10:30 – 11:30 am

## **ADVANCED ROBOTICS FOR MANUFACTURING (ARM) INSTITUTE**

MAIN STAGE

### **Jay Douglass**

COO, Advanced Robotics for Manufacturing (ARM) Institute

### **Col Aneel Alvarez, USAF**

Director, Defense Engagement, Boston Lead & Air Force Lead, Defense Innovation Unit (DIU)

11:30 - 12:00 pm

## **GOVERNOR'S OFFICE, COMMONWEALTH OF MASSACHUSETTS**

MAIN STAGE

### **Secretary Mike Kennealy**

Secretary of the Executive Office of Housing and Economic Development, Commonwealth of Massachusetts

12:00 - 1:00 pm

## **LUNCH & NETWORKING BREAK**

CAFETERIA

1:00 - 1:30 pm

## **ACADEMIC & INDUSTRY COLLABORATION**

MAIN STAGE

### **Wendy Leonard**

Open Campus Program Manager, Strategic Partnerships Office, DEVCOM Army Research Laboratory

### **Dr. Jacquelynn Garofano**

Chief Technology Officer, Connecticut Center for Advanced Technology (CCAT)

1:30 - 2:30 pm

## **ADVANCED REGENERATIVE MANUFACTURING INSTITUTE (ARMI)**

MAIN STAGE

### **Maureen Toohey**

Deputy Executive Director, ARMI | BioFabUSA

### **Kenn Turner**

President & CEO, Massachusetts Life Sciences Center (MLSC)

### **Kendalle O'Connell**

President & COO, Massachusetts Biotechnology Council (MassBio)

2:30 - 2:35 pm

## **CLOSING REMARKS**

MAIN STAGE

### **ML Mackey**

Chair, NDIA Small Business Division

CEO, Beacon Interactive Systems

The NDIA has a policy of strict compliance with federal and state antitrust laws. The antitrust laws prohibit competitors from engaging in actions that could result in an unreasonable restraint of trade. Consequently, NDIA members must avoid discussing certain topics when they are together at formal association membership, board, committee, and other meetings and in informal contacts with other industry members: prices, fees, rates, profit margins, or other terms or conditions of sale (including allowances, credit terms, and warranties); allocation of markets or customers or division of territories; or refusals to deal with or boycotts of suppliers, customers or other third parties, or topics that may lead participants not to deal with a particular supplier, customer or third party.



# BIOGRAPHY



## BRIGADIER GENERAL DAVID TRYBULA, USA

*Deputy Commanding General*  
U.S. Army Combat Capabilities Development Command

Brig. Gen. David C. Trybula assumed the role of Deputy Commanding General

of the U.S. Army Combat Capabilities Development Command (DEVCOM) on June 8, 2021. In this role, Trybula leads DEVCOM's Data and Analytics Domain and serves as key champion for DEVCOM's international and domestic partnerships that underpin the Command's ability to innovate on behalf of the U.S. Army. He concurrently serves as the Senior Commander of the U.S. Army Natick Soldier Systems Center, located in Natick, Massachusetts.

Trybula entered the Army upon graduation from the United States Military Academy in 1989. He was commissioned as an Armor officer and served his company grade time in Armor and Cavalry units before receiving his functional area designation as an Operations Research Systems Analyst.

Trybula has served at the tactical, operational, and strategic levels. Over the last 10 years, he served in the following key

assignments: Commanding General White Sands Missile Range, New Mexico and Deputy Commanding General U.S. Army Test and Evaluation Command (ATEC) for Developmental Testing White Sands Missile Range, Deputy Chief of Staff for Army Futures Command Headquarters in Austin, Texas; Strategic Initiatives Group Chief for the Under Secretary of the Army, Arlington, Virginia; Assistant Deputy Chief of Staff for Resources, Facilities, and Strategy, and Director, Prospective Clinical Analytics, U.S. Army Medical Command, Falls Church, Virginia; Director, Afghan Assessment Group, Headquarters, International Security Assistance Force, Kabul, Afghanistan; Senior Strategist and Executive Director, Army Science Board, Office of the Deputy Under Secretary of the Army, Arlington; Chief of Staff, Army National Cemeteries Program, Arlington National Cemetery, Arlington.

His two combat tours include Operation Desert Storm in Iraq and Operation Enduring Freedom in Afghanistan.

Trybula's civilian education includes a bachelor's degree from the United States Military Academy, and a master's degree and a doctorate in economics from the University of Texas at Austin.

Trybula's awards and decorations include the Office of the Secretary of Defense Identification Badge, the Army Staff Identification Badge, Defense Superior Service Medal, Legion of Merit (7 awards), Defense Meritorious Service Medal, Meritorious Service Medal (4 awards), Army Commendation Medal for Valor, Army Commendation medal (2 awards), Joint Service Achievement Medal, Army Achievement Medal (3 awards), National Defense Service Medal, Southwest Asia Service Medal, Afghanistan Campaign Medal, Global War on Terrorism Service Medal, International Security Assistance Force NATO Medal, Saudi Arabia Kuwait Liberation Medal, and the Kuwaiti Kuwait Liberation Medal. He is also a recipient of the Order of Saint George and an Honorary Member of the Order of Military Medical Merit.



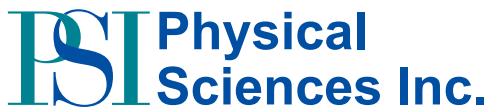
## AN ONLINE COMMUNITY FOR DEFENSE PROFESSIONALS

NDIA Connect is a members-only benefit that's bustling with information, conversation, and activity stimulated by defense professionals from industry, government, and academia. Log in today to explore the platform's various functionalities and contribute to our collective mission in support of the warfighter. From anywhere and at any time, use NDIA Connect to network with colleagues, collaborate on projects, and stay connected.

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# SPONSOR DESCRIPTIONS



## ELITE SPONSOR

PSI has provided integrated research and development services to deliver products and solutions to commercial and government customers since the SBIR program inception. It is a 100% employee-owned company with a staff of 300, many with advanced degrees in fields such as chemistry, biology, physics, and materials sciences as well as electrical, aeronautical, and mechanical engineering. PSI's staff works closely with government acquisition offices, prime contractors, and commercial customers early in the development of technology. Requirements, risk assessment and management, and capability development planning are initiated during SBIR Phase I proposal development and documented in technology roadmaps aligned with the platforms in which the technology will be inserted.

This expertise allows PSI to provide interdisciplinary solutions in fields such as combustion systems, electrochemistry, electro-mechanics, optoelectronics, medical imaging, and photonics. PSI has successfully transitioned advanced technologies to support missions of the Departments of Defense, Homeland Security, and Energy as well as NIH and NASA. Specific examples of PSI's fielded SBIR technologies include:

- Hand-held methane leak detection used by thousands of utility inspectors
- Real-time mobile detection and identification of CBRN threats in complex urban environments
- High energy, high power, safe Li-ion batteries
- High temperature materials for advanced propulsion systems
- Retinal imaging for improved eye health outcomes with licensed technologies used in over 20,000 instruments sold world-wide
- Recovery of rare earth elements and other resources from waste products

Special production capabilities include Li-ion battery manufacturing, high temperature ceramic matrix composite processing, and advanced fixed site and mobile radiation detection and localization systems.



## STEM SPONSOR

Beacon is a MA-based non-traditional defense contractor delivering award-winning digital capabilities that transform operations, maintenance, and sustainment for the DoD. Started up as a bootstrapped company in a rent-control apartment on Beacon Street just outside of Fenway Park, the company has since grown into a valued defense contractor addressing modernization needs for the DoD, its partners, and allies. By engaging with the SBIR Program, Beacon leveraged its commercial sector expertise in support of critical national

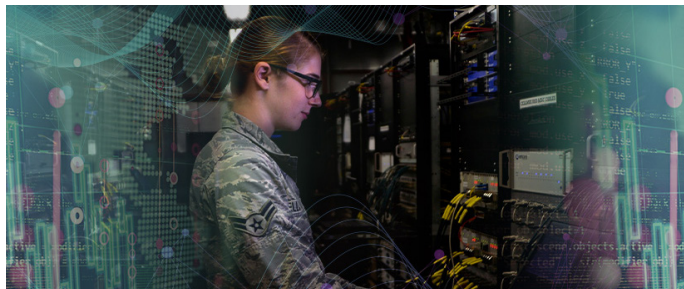
security needs, transitioning multiple digital products into DoD Programs of Record. Beacon products are in full fleet deployment across the Navy streamlining the performance of work on the deckplate as well as digitizing flightline operations for the U.S. Air Force. Delivering critically needed innovation to edge operations, Beacon's products increase operational efficiency, improve workforce capacity, and provide real-time visibility into the readiness of deployed assets.



### 2023 EXPEDITIONARY WARFARE CONFERENCE

February 22 – 23, 2023 | Arlington, VA

Maritime Electronic Warfare | Naval Fires And Aviation | Seabasing



### 2023 HUMAN SYSTEMS CONFERENCE

March 1 – 2, 2023 | Arlington, VA

Human Systems Integration | Human Factors Engineering | Artificial Intelligence



### 37<sup>TH</sup> ANNUAL NATIONAL LOGISTICS FORUM

February 8 – 9, 2023 | Orlando, FL

Logistics Capability | Innovation | Data Centricity | Logistics Management



### 2023 PACIFIC OPERATIONAL SCIENCE & TECHNOLOGY (POST) CONFERENCE

March 6 – 9\*\*, 2023 | Honolulu, HI

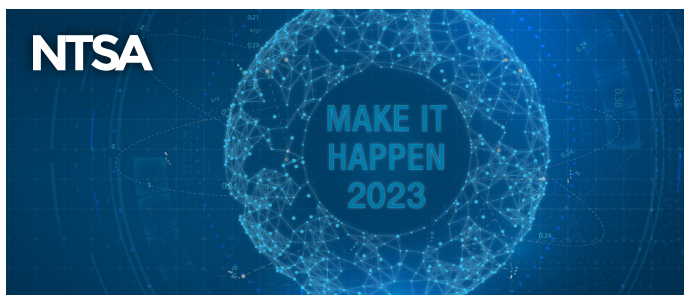
Regional Security | Science & Engineering Technology | Technology Engagement



### 2023 TACTICAL WHEELED VEHICLES CONFERENCE

February 27 – March 1, 2023 | Columbus, OH

Autonomous Vehicles | Electric Drive | Modernization & Sustainment | Acquisition



### MODSIM WORLD 2023

May 22 – 23, 2023 | Norfolk, VA

Medical Simulation | Machine Learning | Extended Reality | Gamification