



**NDIA**

# **ELECTRONICS**

## Division Meeting

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August 6, 2024 | Washington, DC | [NDIA.org/Events](https://www.ndia.org/Events)





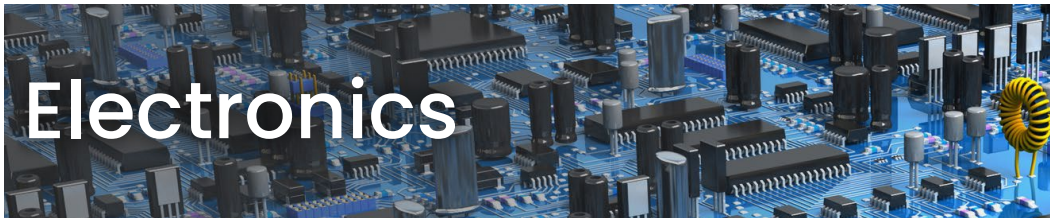
# WHO WE ARE



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)

## Get Involved

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



# Electronics

## Leadership and Committees

**Neil Schumacher**  
Division Chair

**Dr. Caprice Gray-Haley**  
Vice Chair

**Antonio de la Serna**  
Secretary

## Who We Are

The mission of the Electronics Division is to lead the evaluation of current and future challenges, and to develop proposed solutions to address such, for the U.S. Government and industry to access and provide trusted and assured electronics. The Division will provide a framework for the legal and ethical exchange of information, providing a forum for the interchange of views between the defense industry, commercial industry, universities, research centers, standards bodies, government, and military representatives, on trusted and assured technology spanning advanced R&D and design to manufacturing to deployment of systems that target defense and national security end use applications.

# Thank you to our Sponsors



### Premier Sponsor

Siemens Digital Industries Software helps organizations of all sizes digitally transform using software, hardware and services from the Siemens Xcelerator business platform. Siemens' software and the comprehensive digital twin enable companies to optimize their design, engineering and manufacturing processes to turn today's ideas into the sustainable products of the future. Siemens EDA includes the design, verification and emulation capabilities required to realize the digital twin of the electronics subsystems of critical Defense platforms.



### Small Business Sponsor

Colvin Run is a boutique systems integrator founded in 2018, specializing in mission-driven analytics and intuitive user interfaces. Based in Tysons, VA, we leverage advanced technologies for data science and AI/ML initiatives across various environments. As a recognized innovator with government clearances and accolades, we deliver powerful, user-friendly tools from complex data sources.



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IBM is a leading global hybrid cloud and AI, and business services provider, helping clients in more than 175 countries capitalize on insights from their data, streamline business processes, reduce costs and gain the competitive edge in their industries. All of this is backed by IBM's legendary commitment to trust, transparency, responsibility, inclusivity, and service. For more information, visit [www.ibm.com](http://www.ibm.com).

# Event Information

## Location

Walter E. Washington Convention Center  
801 Allen Y. Lew Place NW  
Washington, DC 20001

## Event Contact

**Raven LeMay**  
Meeting Planner  
(703) 247-2540 | [Rlemay@NDIA.org](mailto:Rlemay@NDIA.org)

**Alex Pilkington**  
Program Manager, Divisions  
(703) 247-9491 | [Apilkington@NDIA.org](mailto:Apilkington@NDIA.org)

## Real-Time Crowd Source 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-cote 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. Ask your question in the general session by going to [slido.com](https://www.slido.com)  
The Event Code is: **#MarketPull24**



## Survey and Participant List

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

## Speaker Gifts

In lieu of speaker gifts, a donation is being made to the Fisher House Foundation, a non-profit organization that builds comfort homes where military and veteran families can stay free of charge while a loved one is in the hospital.

## 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), Emerging Technologies Institute (ETI), and Women In Defense (WID) meeting-related events, whether in person at public or private facilities, online, or during virtual events. NDIA, NTSA, ETI, and WID are committed to providing a productive and welcoming environment for all participants. Visit [NDIA.org/CodeOfConduct](https://www.ndia.org/CodeOfConduct) to review the full policy.

## Antitrust Statement

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.

# Agenda

8:30 – 9:00 AM

## Registration

ROOM 144

9:00 – 9:15 AM

## Welcoming Comments

ROOM 144

### Neil Schumacher

Chair, Electronics Division, National Defense Industrial Association

9:15 – 10:00 AM

## Overcoming the “Valleys of Death”

ROOM 144

### Dr. Vladimir Bulovic

Founding Director, MIT.Nano Lab

10:00 – 10:30 AM

## Networking Coffee Break

ROOM 144

10:30 – 11:15 AM

## Long-Term Demand and Supply Sustainment from OSD A&S

ROOM 144

### Dr. Nick Martin

Director, Defense Microelectronics Activity (DMEA)

11:15 AM – 12:15 PM

## Effective Transition

ROOM 144

### Dr. Jay Lewis

Executive Leader, CHIPS for America Research and Development Office, Department of Commerce  
*Moderator*

### Dr. Stewart Coulter

Chief Technologist, FAST Labs, BAE Systems, Inc.

### Matthew Nicholls

Vice President, Business Develop, IBM

### Dr. Dev Shenoy

Principal Director of Microelectronics, Microelectronics Commons Executive Director, OUSD (R&E)/ASD(CT)

12:15 – 1:30 PM

## Networking Lunch

ROOM 144



**NDIA**

2024

# **FUTURE FORCE CAPABILITIES**

## CONFERENCE & EXHIBITION

**Armaments | Fuze | Integrated Precision Warfare | Munitions | Robotics**

Join us at this year's Future Force Capabilities Conference and Exhibition, brought to you by NDIA's Armaments, Integrated Precision Warfare, Munitions Technology, Robotics, and Fuze communities. Connect with more than 800 thought leaders and explore offerings from 50+ exhibitors across eight diverse tracks of content. Help shape the future by participating in capabilities briefings, absorb keynote insights, participate in engaging panels, and more.

**SAVE THE DATE!**

**September 24 – 27, 2024 | Virginia Beach, VA | [NDIA.org/Events](https://www.ndia.org/Events)**



1:30 – 2:30 PM

## Dual Use

ROOM 144

### Daniel DiMase

President & CEO, Aerocyonics, Inc.  
Moderator

### Matthew Ringler

Senior Director, Business Solutions, Marvell Government Solutions

### Dr. Kenneth Heffner

Senior Fellow Engineer, Defense & Space, Honeywell

### Dr. William Conley

Chief Technology Officer, Mercury Systems

2:30 – 3:15 PM

## How Could the NSTC Instrument Demand-Driven R&D to Accelerate National Economic Competitiveness?

ROOM 144

### Dr. Scott Bukofsky

Director of Capabilities, CHIPS National Semiconductor Technology Center Program, U.S. Department of Commerce

3:30 – 3:45 PM

## Networking Break

ROOM 144

3:45 – 4:15 pm

## NSTXL Perspective: The Microelectronics Commons Hubs

ROOM 144

### Stephanie Lin

Vice President, Microelectronics Commons, National Security Technology Accelerator (NSTXL)

4:15 – 5:00 pm

## Interactive Session: What's Next?

ROOM 144

### Neil Schumacher

Chair, Electronics Division, National Defense Industrial Association

### Dr. Caprice "Cappy" Gray Haley

Vice-Chair, Electronics Division, National Defense Industrial Association



# WOMEN IN DEFENSE 2024 National Conference

September 24, 2024 | Arlington, VA  
WomenInDefense.net

REGISTER TODAY!

# Biographies

Scan the QR code to view the full list of speaker biographies.



## Dr. Scott Bukofsky

Director of Capabilities, CHIPS National Semiconductor Technology Center Program, U.S. Department of Commerce

Dr. Bukofsky joined the CHIPS R&D Office in January 2024 as the Director of Capabilities for the CHIPS NSTC program. In this role, he is responsible for defining and executing on R&D capabilities to support the National Semiconductor Technology

Center, including prototyping facilities and other infrastructure needed to execute a world-class semiconductor R&D program for the benefit of U.S. economic and national security. Prior to CHIPS, Scott spent more than 30 years in the semiconductor industry at IBM Microelectronics, GlobalFoundries, and Synopsys in roles spanning research,

technology R&D, and new business development. Scott holds a bachelor's degree in Microelectronic Engineering from the Rochester Institute of Technology and a Ph.D. in Electrical Engineering from Yale University.



## Dr. Vladimir Bulovic

Founding Director, MIT.Nano Lab

Vladimir Bulović is a Professor of Electrical Engineering at MIT holding the Fariborz Maseeh Chair in Emerging Technology. He directs the Organic and Nanostructured Electronics Laboratory, co-leads the MIT-Eni Solar Frontiers Center, leads the Tata GridEdge program, and is the Founding Director of MIT.nano, MIT's new 20,000 m<sup>2</sup> nano-fabrication, nano-characterization, and prototyping facility that opened in the summer of 2018. He is an author of over 250 research articles (cited over 45,000 times, and recognized as the

top 1% of the most highly cited in 2018 in the Web of Science) and an inventor of over 100 U.S. patents in areas of light emitting diodes, lasers, photovoltaics, photodetectors, chemical sensors, programmable memories, and micro-electro machines, majority of which have been licensed and utilized by both start-up and multinational companies.

The three start-up companies Bulović and his students co-founded jointly employ over 450 people, and include Ubiquitous Energy, Inc., developing nanostructured solar technologies; Kateeva, Inc., focused on

development of printed electronics; and QD Vision, Inc. (acquired in 2016) that produced quantum dot optoelectronic components. Bulović was the first Associate Dean for Innovation of the School of Engineering and the Inaugural Co-Director of MIT's Innovation Initiative, which he co-led from 2013 to 2018. For his passion for teaching Bulović has been recognized with the MacVicar Fellowship, MIT's highest teaching honor. He completed his Electrical Engineering B.S.E. and Ph.D. degrees at Princeton University.



## Dr. Nicholas T. Martin

Director of the Defense Microelectronics Activity (DMEA)

Dr. Nicholas T. Martin is the Director of the Defense Microelectronics Activity (DMEA). In this capacity he provides engineering expertise to solve Department of Defense (DoD) specific microelectronics issues facing the Warfighter, provides direct support to system program managers in the services, interfaces with special forces and intel community leadership to understand mission needs and to provide innovative and timely solutions, oversees and manages the DoD's only organic semiconductor manufacturing laboratory, maintains a highly skilled civilian workforce, provides management direction and control over

the Trusted Access Program Office (TAPO) that facilitates United States Government access to trusted state-of-the-art (SOTA) and state-of-the-practice (SOTP) microelectronics design and manufacturing capabilities, and carries out Head of Contracting Activity (HCA) responsibilities. He assumed his current position in August 2021.

Prior to his current assignment, Dr. Martin served as the Technical Lead of the DMEA Warfighter Solutions Division – leading a multidisciplinary project centric team responsible for providing microelectronics research, designs, prototypes, products, analysis and consultation services with a focus on increasing weapon system lethality and mission capability, while reducing development time and operational cost.

Dr. Martin enlisted in the U.S. Navy in May 1998 as an electronics technician and served two deployments aboard the aircraft carrier USS John C Stennis (CVN-74). He has served as an adjunct professor at California State University, Sacramento, in the Department of Electrical and Electronic Engineering.

Dr. Martin received his Bachelor and Master of Science degrees in Electrical and Electronic Engineering from California State University, Sacramento, and his Doctorate in Electrical and Computer Engineering from University of California, Davis, as a DoD SMART Scholar. He is a Level III certified Defense Acquisition Professional in the career field of Systems, Research, Development and Engineering (SPRDE).



# Leading the Way in Engagement, Networking, and National Defense

Plan Ahead for Success | 2024 - 2025 Featured Meetings, Conferences, and Events



## Fall 2024 Integrated Program Management Division Forum

August 21 – 22, 2024 | Bethesda, MD



## Women In Defense 2024 National Conference

September 24, 2024 | Arlington, VA



# I/ITSEC 2024

The World's Largest Modeling, Simulation & Training Event

December 2 – 6, 2024 | Orlando, FL



## 2024 Undersea Warfare Fall Conference

September 16 – 18, 2024\* | Groton, CT



## 26th Annual Expeditionary Warfare Conference

October 22 – 24, 2024 | Laurel, MD



# 2024 FUTURE FORCE CAPABILITIES CONFERENCE & EXHIBITION

Armaments | Fuze | Integrated Precision Warfare Munitions | Robotics

September 24 – 27, 2024\*\* (Distro D) Virginia Beach, VA



## 27th Annual Systems & Mission Engineering Conference

October 27 – 31, 2024 | Norfolk, VA



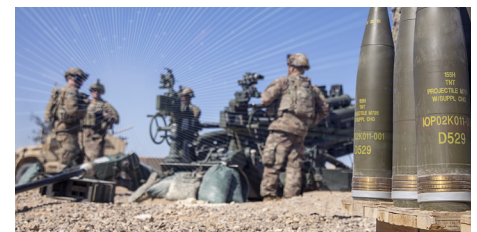
## 39th Annual National Logistics Forum

February 11 – 13, 2025 | Orlando, FL



## 2024 Aircraft Survivability Symposium

November 5 – 7, 2024\* | Monterey, CA



## Munitions Executive Summit

March 18 – 20, 2025 | Parsippany, NJ

\*All Classified | \*\*Partially Classified

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