

S & ET DIVISION

THE DIGITAL SUBMARINE TOMORROW IS TODAY

**An NDIA and NavalX Creative Collision Event that will make
today and tomorrow's Navy Enterprise more agile**

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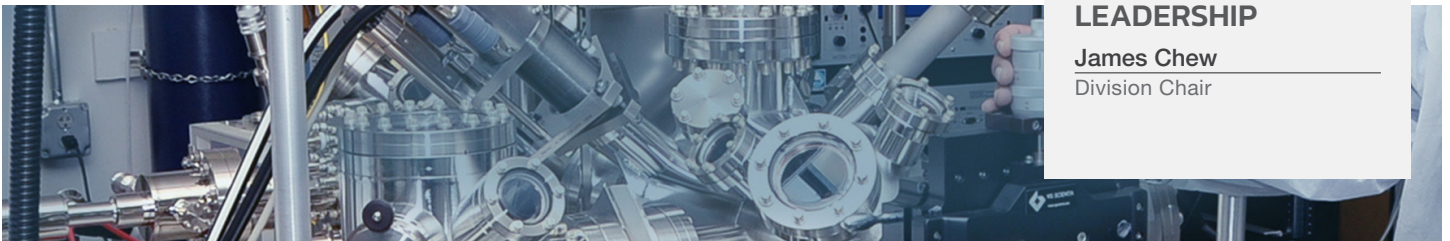
NDIA

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

GET INVOLVED

Learn more about NDIA's Divisions and how to join one at NDIA.org/Divisions



LEADERSHIP

James Chew
Division Chair

SCIENCE & ENGINEERING TECHNOLOGY DIVISION

WHO WE ARE

The Science & Engineering Technology Division was formed to examine all aspects of science and technology affecting national defense. The division provides a venue for discussion of the nation's defense needs by examining existing capabilities and suggesting ways to overcome deficiencies in defense research and development (R&D). Individuals from industry, government and academia have the opportunity to examine vital information in an open forum on technical needs and planned efforts. The division is dedicated to raising interest in meeting Department of Defense technology requirements through creative research and advanced development across industry, government and academia.

WELCOME TO THE DIGITAL SUBMARINE TOMORROW IS TODAY EVENT

NDIA & NavalX have partnered for this collision event to explore digital technology advancements for tomorrow's more agile U.S. Navy. This pilot event is geared towards acquisition and technology professionals including active Navy program office leadership and personnel, and leaders and members of the defense industrial base. This two-day event is facilitated by NavalX to explore, integrate, and encourage debate on how we might re-imagine acquisition, sustainment, and modernization. We are particularly focused on this given the trajectory of commercial digital improvement and the need for more capable, agile, and cost-effective solutions for the Navy.

This event will provide participants with the following opportunities:

- Insight into the latest requirements and developments in today's digital ecosystem with exhibits and key speakers in the areas of: Digital Microelectronic Engineering, DEVSECOPs, Digital Maintenance, and related digital topics
- Participation in a Q&A with Navy leaders and industry speakers
- Facilitated exchanges to identify affordable solutions
- In-person networking for building strong relationships

NDIA | CAREER CENTER

Connecting Talent with Great Opportunities

This latest member benefit of the National Defense Industrial Association offers qualified defense and national security professionals and employers an intuitive platform to identify the next best opportunity or candidate. With single-sign-on, quick and advanced searches, job alerts, career resources, pre-screen questionnaires, success tracking, and more, the NDIA Career Center is the defense industry's premier resource for career growth and advancement.

Log in and complete your profile today at Jobs.NDIA.org



EVENT INFORMATION

LOCATION

NavalX
5380 Eisenhower Ave. Suite C
Alexandria, VA 22304

WIFI

Network: Please refer to instructions provided at the event.

ATTIRE

Professional Casual



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.

EVENT CONTACT

Kimberly Williams
Director, Meetings
(703) 247-2578
kwilliams@NDIA.org

Britt Sullivan
Senior Director, Divisions
(703) 247-2587
bsullivan@NDIA.org

SPEAKER GIFTS

In lieu of speaker gifts, a donation is being made to the Fisher House Foundation.

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.



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AGENDA

TUESDAY, MARCH 15: AM SESSION

- 8:00 am – 5:05 pm **REGISTRATION OPEN**
NAVALX FRONT ENTRANCE
- 9:00 – 9:05 am **WELCOME REMARKS – AM SESSION: DIGITAL
MICROELECTRONICS ENGINEERING**
NAVALX
James Chew
Cadence Design Systems
- 9:05 – 9:25 am **ICE-BREAKER**
NAVALX
- 9:25 – 9:30 am **MOUNTAIN INTRODUCTION**
NAVALX
- 9:30 – 10:15 am **MOUNTAIN**
NAVALX
- 10:15 – 10:25 am **MOUNTAIN DEBRIEF**
NAVALX
- 10:25 – 11:55 am **DISPLAY AREA OPEN**
- 10:25 – 11:05 **DIGITAL TWINNING**
NAVALX
Frank Schirrmeister
Cadence Design Company
- 11:05 – 11:35 am **DOD EMULATION AND DESIGN CENTER**
NAVALX
Len Orlando
Air Force Research Laboratory
- 11:35 am – 12:05 pm **TACTICAL HPC INNOVATIONS FOR DMO**
NAVALX
Mike Danjczek
Global Technical Systems



Unleash Imagination

The only EDA company accredited by the DoD as a trusted supplier. Our digital microelectronic engineering capabilities enable electronic systems that are future proofed, on budget, on schedule, sustainable, and modernizable.

- ▶ System analysis
- ▶ 5G for the DoD
- ▶ Emulate before you fabricate
- ▶ Digital twinning
- ▶ AI on the edge
- ▶ Security



$\nabla \times \vec{H} = j\omega\epsilon\vec{E} + \vec{j}$

$\nabla \times \vec{E} = -j\omega\mu\vec{H}$

$\dot{X}(t) = f(X(t), u(t))$

$\dot{X}(t) = \frac{\partial f}{\partial X} \dot{X} + \frac{\partial f}{\partial u} \dot{u}$

$\nabla \cdot (\mu\vec{H}) = 0$



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12:05 – 12:35 pm **EDGE BASED AI**
NAVALX
Frank Schirrmeister
Cadence Design Company

12:30 pm **ADJOURN**
LUNCH AVAILABLE FOR THOSE WHO HAVE REGISTERED TO ATTEND LUNCH.

TUESDAY, MARCH 15: PM SESSION

1:15 – 1:20 pm **WELCOME REMARKS – PM SESSION: DEVSECOPS**
NAVALX
James Chew
Cadence Design Systems

1:20 – 1:35 pm **ICE BREAKER**
NAVALX

1:35 – 1:40 pm **MOUNTAIN INTRODUCTION**
NAVALX

1:40 – 2:25 pm **MOUNTAIN**
NAVALX

2:25 – 2:35 pm **MOUNTAIN DEBRIEF**
NAVALX

2:35 – 4:05 pm **DISPLAY AREA OPEN**

2:35 – 3:05 pm **DEVSECOPS PERSPECTIVES**
NAVALX
Yadu Zambre
Air Force Research Laboratory

3:05 – 3:35 pm **DEVSECOPS PERSPECTIVES**
NAVALX
Maj (Dr.) Camdon Cady, USAF

3:35 – 4:05 pm **DEVSECOPS PERSPECTIVES**
NAVALX
Lisa Bongiovanni

4:05 – 5:05 pm

NETWORKING RECEPTION

WEDNESDAY, MARCH 16: AM SESSION

8:00 am – 4:35 pm

REGISTRATION OPEN

NAVALX FRONT ENTRANCE

9:00 – 9:05 am

WELCOME REMARKS – AM SESSION: MAINTENANCE

NAVALX

MG James Boozer, USA (Ret)

Executive Vice President, National Defense Industrial Association

9:05 – 9:35 am

GUEST SPEAKER

NAVALX

RADM (Sel) Jon Rucker, USN

PMS 397, Columbia Class Program Manager

9:35 – 9:55 am

ICE BREAKER

NAVALX

9:55 – 10:00 am

MOUNTAIN INTRODUCTION

NAVALX

10:00 – 10:45 am

MOUNTAIN

NAVALX

10:45 – 10:55 am

MOUNTAIN DEBRIEF

NAVALX

10:55 am – 12:25 pm

DISPLAY AREA OPEN

10:55 – 11:25 am

ADOPTING COMMERCIAL PREDICTIVE MAINTENANCE FOR THE AIR FORCE

NAVALX

AnnMarie Spexet

11:25 – 11:55 am

DIGITAL PREDICTIVE MAINTENANCE

NAVALX

Paul Venditti

11:55 am – 12:25 pm **REINVENTING TECHNICAL MANUALS AND CONTENT PRODUCTION**
NAVALX
Brian Ippoliti
Orbis

12:25 pm **ADJOURN**
LUNCH AVAILABLE FOR THOSE WHO REGISTERED TO ATTEND LUNCH.

WEDNESDAY, MARCH 16: PM SESSION

1:15 – 1:20 pm **WELCOME REMARKS – PM SESSION: OTHER THINGS DIGITAL**
NAVALX
James Chew
Cadence Design Systems

1:20 – 1:35 pm **ICE BREAKER**
NAVALX

1:35 - 1:40 pm **MOUNTAIN INTRODUCTION**
NAVALX

1:40 – 2:25 pm **MOUNTAIN**
NAVALX

2:25 – 2:35 pm **MOUNTAIN DEBRIEF**
NAVALX

2:35 – 4:05 pm **DISPLAY AREA OPEN**

2:35 – 3:05 pm **PROJECT BLUE**
NAVALX
Bridger Smith
Naval Postgraduate School

3:05 – 3:35 pm **DIGITAL SECURITY**
NAVALX
Bill Ward
SOFTwarfare

3:35 – 4:05 pm

SUBMARINE DETECTION

NAVALX

Ron Rosemeier and Sudhir Trivedi

4:05 – 4:35 pm

INNOVATION PARTNERSHIPS

NAVALX

Robin Yeman

4:35 – 6:00 pm

NETWORKING RECEPTION

NAVALX

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.

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Hosted by our resident expert Dr. Mark Lewis, Executive Director of NDIA's new Emerging Technologies Institute, our podcast takes a deep dive into how technology will shape the future of warfare.

EmergingTechnologiesInstitute.org/Podcast

