

2022 BREAKTHROUGH ENERGETICS

Advancing Energetics for Strategic Superiority

TABLE OF **CONTENTS EVENT INFORMATION4** THANK YOU TO OUR SPONSORS 12 BIOGRAPHIES 14

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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



WHO WE ARE

The Emerging Technologies Institute is a research organization dedicated to advancing technologies critical to our economy and national defense. As part of a nonpartisan 501(c)(3) organization, ETI bridges the gap between industry, academia and government by conducting rigorous analysis, brokering collaborative partnerships, serving as a convening authority, and creating access to expertise on issues of defense modernization, and technological superiority. For more information, visit EmergingTechnologiesInstitute.org

SCHEDULE AT A GLANCE

WEDNESDAY, MAY 4

Registration

Purdue Memorial Union, 2nd Floor 7:00 am - 5:30 pm

Sessions

Loeb Playhouse, Stewart Center 8:00 am - 3:30 pm

Concurrent Breakout Sessions

3:30 - 5:30 pm Fowler Hall and Loeb Playhouse, Stewart Center

Networking and Dinner

Purdue Memorial Union North Ballroom 5:30 - 8:00 pm

THURSDAY, MAY 5

Registration

Purdue Memorial Union, South Ballroom 7:00 am - 5:00 pm

Sessions

Fowler Hall. Stewart Center 8:00 am - 5:15 pm





WHO WE ARE

Purdue University is a top public research institution developing practical solutions to today's toughest challenges. Ranked the No. 6 Most Innovative University in the United States by U.S. News & World Report, Purdue delivers world-changing research and out-of-this-world discovery. Committed to hands-on and online, real-world learning, Purdue offers a transformative education to all. Committed to affordability and accessibility, Purdue has frozen tuition and most fees at 2012-13 levels, enabling more students than ever to graduate debt-free. See how Purdue never stops in the persistent pursuit of the next giant leap at **Purdue.edu**



WHO WE ARE

ETC provides engineering and data analytics services, policy development, and technology development to the government, academia, and private industry.

We are a 501 (c)(3) non-profit organization incorporated in 2006 to support national military policy development projects. Our team looks for opportunities to conduct impactful work for the Defense Department, State, Regional, and Local government, and the private sector. At ETC, we proudly support the United States National Security Enterprise as an innovation catalyst and a partnership facilitator to our clients. Visit us at **etcmd.com**



EVENT INFORMATION

LOCATION

Purdue University 100 North Grant Street West Lafayette, IN 47907

WIFI

Network: ATT Wifi

Click on pop-up and select "Get Connected"

ATTIRE

Civilian: Business

Military: Uniform of the Day

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 Hurley Director, Meetings (703) 247-9494

khurley@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 to review the full policy.

ANTI-TRUST 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.





WEDNESDAY, MAY 4

7:00 am - 5:30 pm **REGISTRATION**

PURDUE MEMORIAL UNION BUILDING, EAST AND WEST FACULTY LOUNGES, 2ND FLOOR

7:00 am - 8:00 am NETWORKING BREAKFAST

PURDUE MEMORIAL UNION BUILDING, EAST AND WEST FACULTY LOUNGES, 2ND FLOOR

8:00 am – 8:30 am **WELCOME**

LOEB PLAYHOUSE, STEWART CENTER

Dr. Mark Lewis

Executive Director of Emerging Technologies Institute, NDIA

Mitchell E. Daniels, Jr. President, Purdue University

COL Santee Vasquez, USA

Commander, Crane Army Ammunition Activity

8:30 am – 9:30 am THE IMPORTANCE OF ADVANCING ENERGETICS

LOEB PLAYHOUSE, STEWART CENTER

Ashley Johnson

Technical Director, Naval Surface Warfare Center Indian Head Division Introduction

ADM Harry Harris, USN (Ret)

Former Commander, U.S. Pacific Command; Former U.S. Ambassador to the Republic of Korea

9:30 am - 10:15 am THE WHY: THE NATIONAL ENERGETICS STUDY

LOEB PLAYHOUSE, STEWART CENTER

Robert Kavetsky

Chief Executive Officer, Energetics Technology Center *Moderator*

Michael Holthe

Director, Platforms and Weapons Technologies Office of the Director for Defense Research and Engineering (R&T), Under Secretary of Defense for Research and Engineering

Dr. Theresa Mayer

Executive Vice President for Research and Partnerships, Purdue University

The Hon. Katharina McFarland

Former Assistant Secretary of the Army for Acquisition, Logistics & Technology

10:15 am - 11:15 am

ESTABLISHING NATIONAL ADVOCACY & A WHOLE OF GOVERNMENT APPROACH

LOEB PLAYHOUSE, STEWART CENTER

Former Deputy Assistant Secretary of the Navy for Research, Development, Test & Engineering Moderator

Stephen (Steve) Ham

Senior Defense Policy Advisor and Professional Staff Member to Senator Ben Cardin, the Senate Small Business Committee Chairman

Joel Carney

Assistant Administrator for Office of Strategic Infrastructure, NASA

Tom Russell

Former Deputy Assistant Secretary of the Army for Research and Technology

The Hon. Todd Young

Member of U.S. Senate for Indiana

11:15 am - 12:15 pm

NETWORKING LUNCH

PURDUE MEMORIAL UNION BUILDING, EAST AND WEST FACULTY LOUNGES, 2ND FLOOR



Resodyn Acoustic Mixers, Inc. Butte, MT 59701 info@resodyn.com 406-497-5333 www.resodynmixers.com

12:15 pm - 1:00 pm

THE PATH FORWARD

LOEB PLAYHOUSE, STEWART CENTER



Principal Deputy, Director of Defense Research and Engineering for Research and Technology and the Acting Director of Defense Research and Engineering for Research and Technology in the OUSD(R&E)

1:00 pm - 2:00 pm

PRIME THE PIPELINE: S&T/R&D LANDSCAPE

LOEB PLAYHOUSE, STEWART CENTER

Dr. Mark Lewis

Executive Director of Emerging Technologies Institute, NDIA Moderator

Kathleen Bubniak

Energetics and Warheads Directorate Science and Technology Associate US Army, DEVCOM Armaments Center

Technical Advisor, Energetic Materials Branch, Ordnance Division, Munitions Directorate, Eglin Air Force Base

John Fischer

Former Technical Director, Technology Centers Division, US Department of Homeland Security



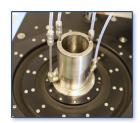
Tomorrow's Leader

in Advanced Energetic Materials Processing Technology

- Develops Unique Technologies Driven by Warfighter Demands
- Responsive to Defense Industry Needs by Providing Leading-Edge Processing Equipment
- · Configures Agile Continuous Chemical and Crystallization Processing Systems for Energetics
- Develops Scalable Continuous Processing Methods from Bench to Pilot to Production
- Focuses on the Discovery of Advanced Methods for Continuous Manufacture of Energetic Materials
- Currently Developing Bench-Scale Acoustic Micro-Chemical Reactor and Crystallization Systems















OmniRAM H







NDIN CAREER CENTER

Connecting Talent with Great Opportunities – NDIA Career Center

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.

Looking for the Right Candidate?

Interested in a better way to engage with and recruit qualified defense and national security professionals? NDIA's new online career center will make searching for candidates easier.

Looking for the Right Job?

Looking for your next career opportunity? The NDIA Career Center is your solution.

Complete your profile today at Jobs.NDIA.org





2:00 pm - 3:00 pm

PRIME THE PIPELINE: THE ROLE OF INDUSTRY AND SMALL BUSINESS

LOEB PLAYHOUSE, STEWART CENTER

Jason Jouet

Director of Munitions, Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)) Moderator

Charlie Zisette

Executive Director, National Armaments Consortium

Robert (Bob) Pulver

General Manager, St. Marks Powder, General Dynamics

Mike Ervin

Director of Research & Development, Ordnance Systems, BAE Systems

Dr. Paritosh R. Dave

Senior Program Manager, Leidos

3:00 pm - 3:30 pm

NETWORKING BREAK

WEST FOYER, STEWART CENTER

3:30pm - 5:30pm

These next two hours contain concurrent sessions split between Classified and Unclassified Sessions.

CONCURRENT BREAKOUT SESSIONS

3:30 pm - 4:30 pm

Global Threat Assessment, Operational Realities and Scenario Implications (Classified Session)

FOWLER HALL, STEWART CENTER

MG William Hix, USA (Ret)

Director of Strategy, Plans & Policy, Deputy Chief of Staff G-3/5/7, Headquarters, Department of the Army (HQDA) *Moderator*

Tony Garcia

Military Operations Analyst, Systems Planning and Analysis, Inc (SPA)

Timothy Walton

Fellow at Hudson Institute, Center for Defense Concepts and Technology

Impact of Adjacent Technologies on Energetics: Additive Manufacturing, Artificial Intelligence/Machine Learning, Autonomous Systems, and Continuous Process, Bio Synthesis (Unclassified Session)

LOEB PLAYHOUSE, STEWART CENTER

William Durant

Director of Energetics, Energetics Technology Center *Moderator*

Suhithi M. Peiris

Principal Scientist, Energetics, Advanced Mission Solutions, Battelle

Dr. T. Yong Han

Group Leader, Functional Material Synthesis & Integration, Material Science Division, Lawrence Livermore National Laboratory

Patrick Carrick

Former Chief Scientist, DHS S&T Director & Former Director, HSARPA

Jill Smith

Former Director, US Army Communications Electronics Research, Development & Engineering Center

4:30pm - 5:30pm

Perspective of Technology and System Gaps (Classified Session)

FOWLER HALL, STEWART CENTER

MG William Hix, USA (Ret)

Director of Strategy, Plans & Policy, Deputy Chief of Staff G-3/5/7, Headquarters, Department of the Army (HQDA) *Moderator*

Dr. Alfred G. Stern

Chief Scientist for Energetic Materials Naval Surface Warfare Center Indian Head Division

Matthew Cerone

Energetic Materials Analyst, National Space and Intelligence Center

Daniel Carreno

Executive Director, Naval Air Warfare Center Weapons Division, China Lake

5:30pm - 8:00pm

NETWORKING AND DINNER: LESSONS FROM HISTORY AND A LOOK AT THE PATH AHEAD

Intelligence Lite – Threat Summary

Military Operations Analyst, Systems Planning and Analysis, Inc

LOEB PLAYHOUSE, STEWART CENTER

(Unclassified Session)

Tony Garcia

(SPA)

PURDUE MEMORIAL UNION, NORTH BALLROOM

Marcus Jones

Professor, United States Naval Academy Introduction

Tim Barrick

Director of Wargaming, Krulak Center for Innovation & Future Warfare, Marine Corps University

THURSDAY, MAY 5

7:00 am – 5:30 pm

REGISTRATION

PURDUE MEMORIAL UNION, SOUTH BALLROOM

7:00 am - 8:00 am

NETWORKING BREAKFAST

PURDUE MEMORIAL UNION, SOUTH BALLROOM

8:00 am - 8:45 am

DEFENSE ACQUISITION PERSPECTIVE

FOWLER HALL, STEWART CENTER

Christopher C. O'Donnell

Deputy Assistant Secretary of Defense for Platform and Weapon Portfolio Management



8:45 am – 9:45 am ENERGETIC BUSINESS MODEL

FOWLER HALL, STEWART CENTER

Jim Thomsen

President, Seaborne Defense; Former Principal Civilian Deputy Assistant Secretary of the Navy for Research, Development, and Acquisition

Moderator

Bob Wardle

Principal, Wardle Enterprises; Former Senior Director of Advanced Programs, Northrop Grumman

Ashley Johnson

Technical Director, Naval Surface Warfare Center Indian Head Division

Chris Grassano

Deputy Program Executive Officer, Joint Program Executive Office Armaments and Ammunition

Greg Quarles

Chief Operations Officer, Applied Energetics

9:45 am - 10:45 am

PRIVATE/PUBLIC PARTNERSHIPS AND VENTURE CAPITAL

FOWLER HALL, STEWART CENTER

Jose Gonzalez

Former Acting Deputy Assistant Secretary of Defense for Tactical Warfare Systems

Dr. Robert Ivester

Deputy Director, Hollings Manufacturing Extension Partnership Program NIST

Lee A. Silvestre

Naval X Northeast Tech Bridge Coordinator, 401 Tech Bridge

Richard Dunn

Founder, Strategic Institute for Innovation in Government Contracting

10:45 am - 11:00 am

NETWORKING BREAK

WEST FOYER, STEWART CENTER

11:00 am - 12:00 pm

CREATING A STATE-OF-THE-ART, RESILIENT AND AGILE ENERGETICS MANUFACTURING AND SUPPLY CHAIN CAPABILITY

FOWLER HALL, STEWART CENTER

Dr. Christine (Chris) Michienzi

Chief Technology Officer for the Deputy Assistant Secretary of Defense (DASD) for Industrial Policy *Moderator*

Jay Brannam

Executive Director, Munitions Industrial Base Task Force

Dr. Shawn Phillips

Chief, Rocket Propulsion Division, AFRL

Anthony Di Stasio

Director, Defense Production Act, Title III, Office of the Secretary of Defense Acquisition and Sustainment

Dan Hartman

Director, Business Development, Spectra Technologies LLC

12:00 pm – 1:15 pm LUNCHEON KEYNOTE: STRATEGIC PERSPECTIVE OF THE UNITED STATES'

DEFENSE INDUSTRIAL BASE

PURDUE MEMORIAL UNION, SOUTH BALLROOM

Norm Thomas

Civilian Executive Assistant, Crane Army Ammunition Activity

Introduction

Dr. Christine (Chris) Michienzi

Chief Technology Officer for the Deputy Assistant Secretary of Defense (DASD) for Industrial Policy

1:15 pm - 1:45 pm

SERVICE ACQUISITION PERSPECTIVE

FOWLER HALL, STEWART CENTER

BG Heath A. Collins, USAF

Program Executive Officer for Weapons and Director of the Armament Directorate, Air Force Life Cycle Management Center, Air Force Materiel Command, Eglin Air Force Base

1:45 pm - 2:45 pm

ADDRESSING OPERATIONAL & REQUIREMENT GAPS

FOWLER HALL, STEWART CENTER

David Jimenez

Former Executive Technical Director / Deputy to the Commander at U.S. Army Test and Evaluation Command (ATEC) Moderator

Bruce Simpson

Vice President, Integrated Solutions for Systems; Former Executive Director of AF Air Armament Center

Mike VandenBoom

Director of Agile Acquisition, Air Force Lifecyle Management Center Armament Directorate

Tracy Sheppard

Director of Lethality, DEVCOM-ARL

Bob Bowen

Former Chief of Soldier and Ground Analysis Division for US Army CCDC Data and Analysis Center

2:45 pm - 3:00 pm

NETWORKING BREAK

WEST FOYER, STEWART CENTER

3:00 pm - 4:00 pm

CREATING THE ENERGETICS WORKFORCE OF THE FUTURE

FOWLER HALL, STEWART CENTER

Tom Russell

Former Deputy Assistant Secretary of the Army for Research and Technology *Moderator*

Dr. Jagadeesh Pamulapati

Director, Defense Laboratories Office, Office of Assistant Secretary of Defense for Research & Engineering

Mary Ann Pacelli

Division Chief, Network Learning and Strategic Competitions

Tony Denhart

Executive Vice President, Workforce and Talent, Indiana Economic Development Corporation



4:00 pm - 5:00pm

PRIME THE PIPELINE: THE ROLE OF UNIVERSITIES CASE STUDIES

FOWLER HALL, STEWART CENTER

Dr. Mung Chiang

Executive Vice President Strategic Initiatives and John A. Edwardson Dean of the College of Engineering, Purdue University
Introduction

Dr. Steve Beaudoin

Director, Purdue Energetics Research Center & Professor of Chemical Engineering Moderator

Dr. Peter Chung

Professor of Mechanical Engineering, University Maryland

Dr. Michelle Pantoya

J. W. Wright Regents Chair in Mechanical Engineering and Professor, Texas Tech

Dr. Steve Son

Alfred J. McAllister Professor of Mechanical Engineering, Purdue University

5:00pm - 5:15pm

CLOSING REMARKS

FOWLER HALL, STEWART CENTER

Robert Kavetsky

Chief Executive Officer, Energetics Technology Center

THANK YOU TO OUR SPONSORS



Next Offset Solutions Inc. is an engineering and technical services provider with prototype and limited-run production capacity. The company's core focus area lies at the nexus of additive manufacturing and energetic materials (encompassing propellants, pyrotechnics, and explosives) making it well suited to address emergent technical challenges that arise in the national security, defense, and energy sectors. Next Offset Solutions' competency stems from its seasoned leadership team, each of whom have a distinct background in business, research and development, and technology transition, as well as its broad portfolio of proprietary technologies.



Level 6 Engineering LLC is an innovative technical solution provider for industry and the defense and national security sectors, driving positive impact on the future of our country and our community as a woman-owned small business. By combining focused technical expertise with a business mindset, and leveraging an extensive professional network, Level 6 Engineering enables rapid technical advancement in a number of areas of national importance. Key areas of technical expertise include: Dynamics and Vibration; Material Characterization; Energetic Materials; Electromechanical Systems; Nonlinear Systems; Sensors and Actuators; Additive Manufacturing.



Hanley Industries was incorporated in 1958 by explosive and pyrotechnic personnel from Atlas Powder Co., Olin's Explosives Division, and the Armament Division of Universal Match Corp. The founders quickly brought together associates who had, in combined years, more knowledge and history in the field of explosives and pyrotechnics than most other companies existing at the time.

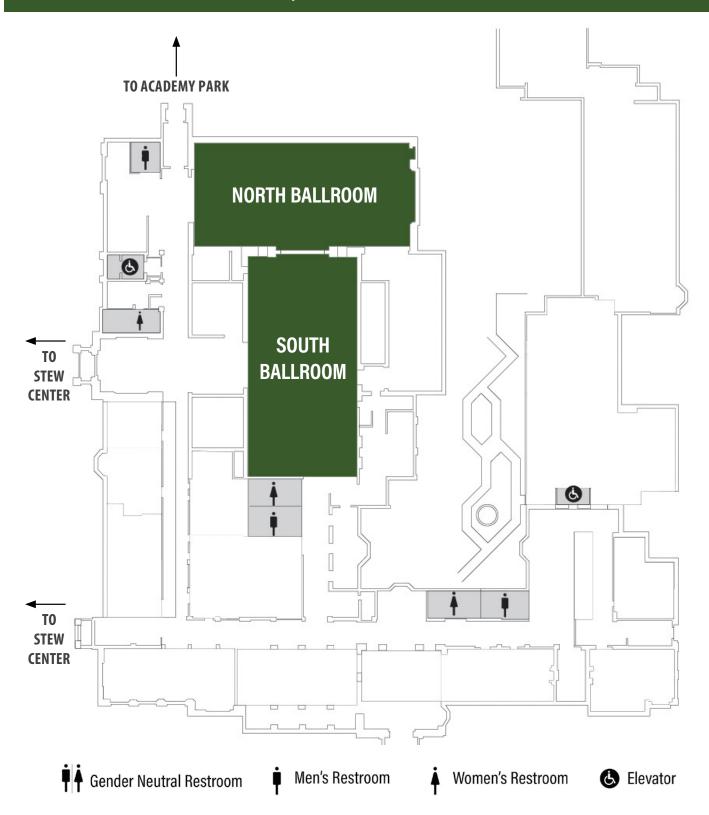
Today Hanley is located in Alton, Illinois, U.S.A, 25 minutes from St. Louis Lambert International Airport. The facility covers 78 acres and includes 70,000 square feet of manufacturing space, plus 19 magazines. Additional off-site magazines provide nearly 150,000 lbs of 1.1 explosive storage capacity. Hanley is very proud to produce energetic parts for all its customers.

The Hanley Mission Statement: Our mission is to build trusting relationships with our customers and suppliers. Our focus is dedicated to growth in the field of energetics and safe, on time deliverables to our DoD and International Allied forces along with our Commercial based customers.

The Hanley Quality Policy: The staff and management of Hanley Industries Inc. are committed to the consistent provision of quality products and services that will satisfy the demands and expectations of customers by continual improvement of the Quality Management System in accordance with statutory and regulatory compliance.

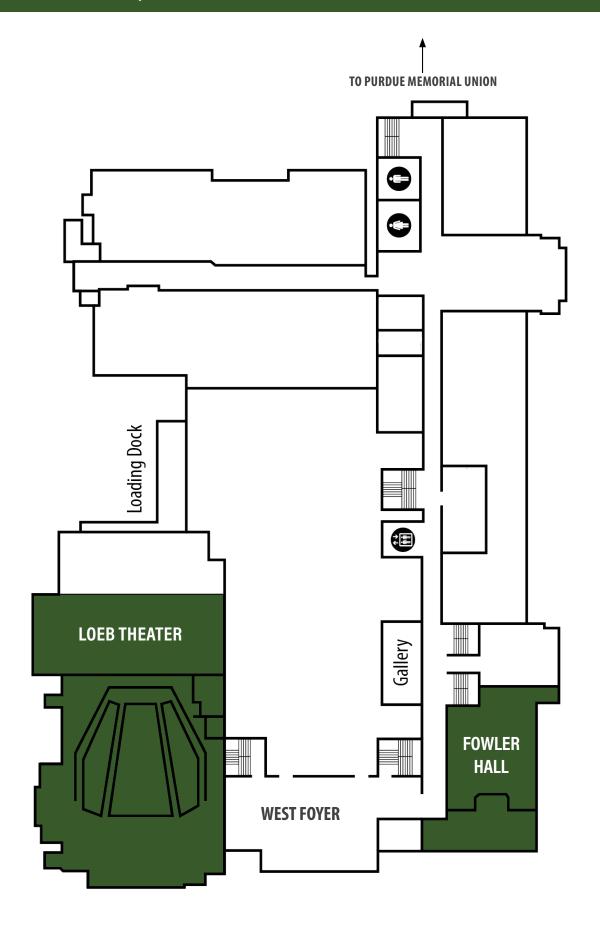
VENUE MAPS

PURDUE MEMORIAL UNION, FIRST FLOOR

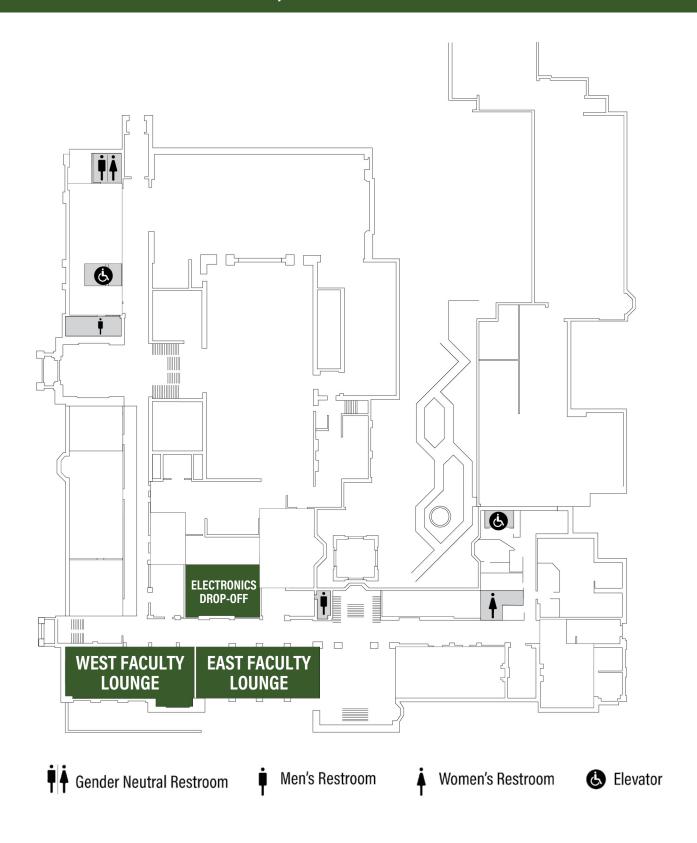




STEWART CENTER, MAIN LEVEL



PURDUE MEMORIAL UNION, SECOND FLOOR





BIOGRAPHIES



MITCHELL E. DANIELS, JR.

12th President of Purdue University Former governor of Indiana.

Mr. Mitchell E.
Daniels, Jr. is the 12th
president of Purdue
University and the

former governor of Indiana.

He was elected Indiana's 49th governor in 2004 in his first bid for any elected office, and then re-elected in 2008 with more votes than any candidate in the state's history. During his tenure, Indiana went from an \$800 million deficit to its first AAA credit rating, led the nation in infrastructure building and saw sweeping education and healthcare reforms.

After a series of transformations, which included the biggest tax cut in state history, the nation's most sweeping deregulation of the telecommunications industry and a host of other reforms aimed at strengthening the state's economy, Indiana was rated a top-five state for business climate and number one for state infrastructure and effectiveness

of state government as Daniels exited office. Indiana's business climate is now rated among the nation's best.

At Purdue, Mr. Daniels has prioritized student affordability and reinvestment in the university's strengths. Breaking with a 36-year trend, Purdue has held tuition unchanged from 2012 through at least the 2022-23 academic year. Simultaneously, room rates have remained steady, meal plan rates have fallen about 10%, and student borrowing has dropped 32% while investments in student success and STEM research have undergone unprecedented growth. It is less expensive to attend Purdue today than it was in 2012.

In recognition of his leadership as both a governor and university president, Mr. Daniels was named among the Top 50 World Leaders by Fortune Magazine in 2015 and was elected to the American Academy of Arts and Sciences in 2019.

Prior to becoming governor, Daniels served as chief of staff to Senator Richard Lugar, senior advisor to President Ronald Reagan and Director of the Office of Management and Budget under President George W. Bush. He also was the CEO of the Hudson Institute, a major contract research organization. During an 11-year career at Eli Lilly and Company, he held a number of top executive posts including president of Eli Lilly's North American pharmaceutical operations.

Daniels earned a bachelor's degree from Princeton's Woodrow Wilson School of Public and International Affairs and a law degree from Georgetown. He is the author of three books and a contributing columnist in the Washington Post.





WHERE DEFENSE PROFESSIONALS GO TO SHARPEN THEIR SKILLS.

NDIA's Business Institute, or the BI, launched in 2021 and since then, it's fast become the go-to hub for defense-related professional development.

The BI helps build a healthier defense industrial base by providing high-quality courses and workshops. Our virtual real-time, on-demand and in-person courses are designed to help professionals know their way around the defense industry: bid better, manage your business processes and execute to get the results you need.

We offer an array of courses taught by our partners, best-in-class experts from Carnegie Mellon University, University of Dayton School of Law, The Maher Group, Mastering Business Development LLC, Defense Acquisition University, Eggler Institute of Technology, and Offset Education LLC.

As the BI expands, we'll add more partnerships. And from July 2022, the BI is set to offer an in-house learning management system.

Get ahead. Sign up to a BI course today.

For more information on the BI, visit:

NDIA.org/BI or contact Sandra Hubbard, the
BI's Program Manager at shubbard@NDIA.org.
For updates, follow the BI on LinkedIn at

"NDIA Business Institute."

WHAT'S SET FOR 2022?

Eggler Institute of Technology's On-Demand Courses

From May, 2022 | Virtual, On-Demand

Mastering Business Development, MBDi

June 21 – 22, and 28 – 29 | Virtual

Configuration & Data Management Certification (CDM)

July, 2022 | Virtual

Defense Systems Acquisition Management, Defense Acquisition University

September 12 – 16 | Arlington, VA

Mastering Business Development, MBDi

September 27 – 28 | Arlington, VA November 8 – 9, and 15 – 16 | Virtual

COMING SOON

Check our website for dates and course information on these events this year:

- Business Inside the Beltway Maximizing Government Opportunities
- Cybersecurity Supply Chain
- Executive Leadership Skills

As of Apr 2022



AMBASSADOR HARRY B. HARRIS JR.



Admiral, U.S. Navy (Retired); Former Commander, U.S. Pacific Command; Former U.S. Ambassador to the Republic of Korea

As the highest-ranking Asian American in the history of the U.S. Navy, Ambassador

Harry B. Harris Jr. oversaw all military operations for more than half of the world's geography as Commander, U.S. Pacific Command (USPACOM). Widely regarded for his leadership, Amb. Harris was selected to serve by two presidential administrations – first to lead in one of the military's most challenging roles, and later as U.S. Ambassador to the Republic of Korea.

Amb. Harris took command of USPACOM in 2015, the oldest multi-service command that stretches from California to the Indian Ocean, and from the Arctic Sea to Antarctica. As commander, he led efforts for the peaceful denuclearization of the Korean Peninsula. Prior to leading USPACOM, Amb. Harris served in a variety of roles in the U.S. Navy, including as representative

of the chairman of the Joint Chiefs of Staff to Secretaries of State Hillary Clinton and John Kerry and commander of the U.S. Pacific Fleet. A naval flight officer, he served in all geographic combatant regions and participated in several major operations, including Desert Shield/Storm, Enduring Freedom, Iraqi Freedom, and Odyssey Dawn. Amb. Harris logged 4,400 total flight hours, including more than 400 combat hours. He retired from the military a four-star admiral in June 2018.

Following his military retirement, Amb. Harris was sworn in as the U.S. Ambassador to the Republic of Korea, serving in this position until January 2021. As ambassador, he led efforts in renegotiating the U.S.-Republic of Korea Special Measures Agreement and promote American interests in South Korea amid deepening economic ties between South Korea and China. He is currently a member of the Council on Foreign Relations.

For his service, Amb. Harris has been awarded numerous medals including the State Department's Distinguished Honor Award, the ClA's Agency Seal Medal and Ambassador's Award, two Defense Distinguished Service Medals, three Navy Distinguished Service Medals, and three Legions of Merit. In addition to being awarded the Dr. Jean Mayer Global Citizenship Award from Tufts University in 2021, he has been nationally recognized for his work as a champion of diversity.

Amb. Harris was born in Japan and raised in Tennessee and Florida. A graduate of the U.S. Naval Academy, he holds master's degrees from Harvard's Kennedy School of Government and Georgetown's School of Foreign Service. He undertook postgraduate studies at Oxford University, and completed the Seminar 21 fellowship at MIT.



DR. STEVEN G. WAX

Principal Deputy, Director of Defense Research and Engineering for Research and Technology

Dr. Steven G. Wax is the Principal Deputy, Director of Defense Research and Engineering for

Research and Technology (DDRE(R&T)) in the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)) at the Pentagon. He is responsible for championing the Department of Defense (DoD) Science and Technology (S&T) Enterprise, including establishing and implementing the S&T strategic vision and DoD imperatives by identifying strategic investment areas and influencing the DoDwide S&T Strategy and Planning Guidance across the Department's laboratories. Dr. Wax provides oversight of the S&T workforce and laboratory infrastructure policy, including for federally-funded research and development centers and university-affiliated research centers.

Dr. Wax is the OUSD(R&E) lead for maintaining technology advantage, through which he establishes policy and implements technology and program protection methodologies. He also oversees a broad

portfolio of S&T programs, including the Basic Research Program, Small Business Innovation Research/Small Business Technology Transfer, Manufacturing Innovation Institutes, DoD ManTech Program, and Microelectronics programs.

As a retired Air Force officer, Dr. Wax has over 45 years of Defense research and development (R&D) experience, including executive positions in DoD and industry and as a senior technical consultant. His most recent government position was as Chief Scientist of the Defense Threat Reduction Agency (DTRA), an SES position that serves as the technical advisor to the Director, DTRA and the Director, DTRA R&D. In this role, he was also responsible for DTRA's basic research program, its international S&T engagement, and the coordination of DTRA's S&T program with the Combatant Commands. Dr. Wax also spent 12 years at the Defense Advanced Research Projects Agency (DARPA), including as Director of the Defense Sciences Office (DSO), where he was responsible for a \$450 million per year office portfolio of innovative basic, applied, and exploratory research and

technology programs spanning the physical sciences, biological warfare defense, biological science, combat medicine, human effectiveness, cognitive science, and mathematics. His other DARPA positions included Deputy Director, DSO and Senior Scientist, Materials. As an Air Force officer, he was assigned to the National Reconnaissance Office, Air Force Office of Scientific Research, DARPA, and the Air Force Rocket Propulsion Laboratory.

Dr. Wax was a member of the Air Force Research Laboratory's Human Effectiveness Directorate's independent Review Team and the National Materials and Manufacturing Board. He also served as a panel member on the Materials Science and Technology External Review for Sandia National Laboratory. His awards include the George Kimball Burgess Memorial Award (material science) and the Secretary of Defense Medal for Outstanding Public Service. He has a PhD in Ceramic Engineering from Georgia Institute of Technology, an M.S. in Chemical Engineering from the University of Illinois, and a B.S. in Chemical Engineering from the University of Massachusetts.

NDIN LEADING THE WAY IN ENGAGEMENT, NETWORKING, AND NATIONAL DEFENSE

PLAN AHEAD FOR SUCCESS | 2022 FEATURED MEETINGS, CONFERENCES, AND EVENTS



INTEGRATED PRECISION WARFARE REVIEW (IPWR-22)

May 4 - 5, 2022 | Arlington, VA

Acquisition and Policy | Precision Capability | Air & Missile Defense



2022 CBRN DEFENSE CONFERENCE AND EXHIBITION

July 26 - 28, 2022 | Baltimore, MD

Combat Architecture | Defensive Measures | Demilitarization | Preparedness | Industrial Base



BREAKTHROUGH ENERGETICS 2022**

May 4 - 5, 2022 | West Lafayette, IN

Science & Engineering Technology | Propellants | Explosives | Modeling & Simulation

Fuze | Missiles | Munitions Technology | Safety & Arming Devices | Warheads



2022 SPACE WARFIGHTING INDUSTRY FORUM (SWIF)**

August 17** – 18*, 2022 | Colorado Springs, CO

Defense Research & Development | Science & Technology



65[™] ANNUAL FUZE CONFERENCE

May 10 - 12, 2022 | Renton, WA



FUTURE FORCE CAPABILITIES CONFERENCE & EXHIBITION

September 19 - 22, 2022 | Austin, TX

Autonomous Systems | GARM | Live Fire | Multi-Domain | Small Arms | EOD



2022 SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE & EXHIBITION (SOFIC)

May 16 - 19, 2022 | Tampa, FL

Communications | Light Vehicles | Small Arms | Special Operations



UNDERSEA WARFARE FALL CONFERENCE*

September 26 - 28, 2022 | Groton, CT

Aviation USW | C4I | Mine Warfare | Undersea Sensors & Vehicles | Warfighter Parformance



TRAINING & SIMULATION INDUSTRY SYMPOSIUM (TSIS)

June 15 - 16, 2022 | Orlando, FL

Training | Simulation | Modeling | Acquisition/Funding



25[™] ANNUAL SYSTEMS & MISSION ENGINEERING CONFERENCE

November 1 - 3, 2022 | Orlando, FL

Program management, Security models, Test & evaluation, Manufacturing



2022 HUMAN SYSTEMS CONFERENCE

June 15 - 16, 2022 | Arlington, VA

Human Systems | Joint Cognitive Systems | Human Systems Integrations | Artificial Intelligence



33RD ANNUAL NDIA SO/LIC

November 17 - 18, 2022 | Washington, DC

Special Operations Forces | Strategic Competition



2022 JADC2 & ALL DOMAIN WARFARE SYMPOSIUM**

July 11 - 13, 2022 | Mclean, VA

Cyber | Cyber-Augmented Operations | Information Technology | Warfare



I/ITSEC 2022

November 28 – December 2, 2022 | Orlando, FL

Simulation | Training | Virtual Reality

*All Classified | **Partially Classified