2019
AIRCRAFT SURVIVABILITY SYMPOSIUM
Evolving Today’s Force to Dominate Tomorrow’s Threat
November 5 – 7 | Monterey, CA | NDIA.org/Aircraft19
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. NDIA is proud to celebrate 100 years in support of our warfighters and national security. The technology used by today’s modern warfighter was unimaginable 100 years ago. In 1919, BG Benedict Crowell’s vision of a collaborative team working at the intersection of science, industry, government, and defense began what was to become the National Defense Industrial Association. For the past century, 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

COMBAT SURVIVABILITY DIVISION

WHO WE ARE

NDIA’s Combat Survivability Division addresses all aspects of susceptibility reduction (probability of hit), vulnerability reduction (consequences of hit), and the overall survivability discipline, including countermeasures, signature reduction, tactics and training, camouflage, concealment, and deception, as well as damage resistance, damage tolerance, and combat damage repair. The Division also focuses on the transfer of information and technology between the military survivability and civil aviation communities to improve flight safety and to mitigate the effects of terrorist acts.
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SCHEDULE AT A GLANCE

TUESDAY, NOVEMBER 5
OPTIONAL TUTORIAL DAY
Naval Postgraduate School
Ingersoll Hall
8:00 am – 5:00 pm

NETWORKING RECEPTION
Hyatt Regency Monterey
Spyglass Rooms 1 & 2
6:00 – 7:30 pm

WEDNESDAY, NOVEMBER 6
SYMPOSIUM DAY 1
Naval Postgraduate School
King Hall
8:00 am – 3:10 pm

AWARD CELEBRATION SOCIAL EVENT
A Taste of Monterey
4:30 – 7:00 pm

THURSDAY, NOVEMBER 7
SYMPOSIUM DAY 2
Naval Postgraduate School
King Hall
8:00 am – 4:00 pm

AWARDS PRESENTATION AND LUNCHEON
Naval Postgraduate School
Herrmann Hall
11:20 am – 1:20 pm

2020 PACIFIC OPERATIONAL SCIENCE & TECHNOLOGY (POST) CONFERENCE
Forward Together – Strengthening Partnership, Presence, and Military Readiness

March 9 – 13 | Honolulu, HI | NDIA.org/POST
EVENT INFORMATION

LOCATIONS
TUTORIALS & SYMPOSIUM
Naval Postgraduate School
1 University Circle
Monterey, CA 93943

TUESDAY RECEPTION
Hyatt Regency Monterey
1 Old Golf Course Road
Monterey, CA 93940

WEDNESDAY RECEPTION
A Taste of Monterey
700 Cannery Row, Ste. KK
Monterey, CA 93940

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

EVENT CONTACTS
Jessica Lewton
Meeting Planner
jlewton@NDIA.org

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PLANNING COMMITTEE
Barry Vincent
Symposium Chair

Dr. Mark Couch
Symposium Vice Chair

Chris Adams
Symposium Planning

Ron Dexter
Poster Chair

Robert Gierard
Awards Chair

Amy Howell
Secretary/Session Chair

Ken McKenzie
Session Chair

Jack Rau
Session Chair

Andrew Smith
Session Chair

Gary Wollenweber
Tutorial Chair

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.

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.
POSTER PRESENTERS
& DISPLAYS

High Energy Laser M&S Development for Blue System Survivability (MSAS)
Ron Dexter
SURVICE

CENA Probe System for Improved Tier 1 Inspection on Low Observable Aircraft
Dr. Daniel Faircloth
IERUS Technologies

Toward Rapid and Accurate Tier II Inspection Using the Open System Configurable Architecture Radar (OSCAR)
Dr. Daniel Faircloth
IERUS Technologies

Highly Accurate Coating Thickness Measurement for Weapon System Survivability
Dr. Bryan Foos
AFRL/RXCA

NAWCWD Weapons Survivability Lab
Ray Hocker
NAWCWD 4.1.8

Joint Aircraft Survivability Programs
Dennis Lindell
JASP

Reticulated Foam and Its Impact on Fuel Tank Vulnerability
Alexander Moran
704th Test Group

Defense Systems Information Analysis Center
Michael Schuck
SURVICE

Aircraft Survivability Against High Power Radio Frequency/Microwave-Directed Energy Weapons
John Tatum
SURVICE

Cyber Combat: A New Threat to Aircraft Survivability
Austin Weinman
Naval Postgraduate School

Balancing Performance, Scheduling, and Cost for Rapid Prototyping, Experimentation, and Demonstration Programs Using M&S
Justin Woulfe
Systecon

AGENDA

THIS EVENT IS CLASSIFIED AS SECRET//NOFORN

TUESDAY, NOVEMBER 5 – OPTIONAL TUTORIAL DAY

7:00 am – 5:00 pm
REGISTRATION OPEN
INGERSSOLL HALL FOYER

7:00 – 8:00 am
CONTINENTAL BREAKFAST
INGERSSOLL HALL FOYER

8:00 – 8:15 am
WELCOME REMARKS
INGERSSOLL HALL

Gary Wollenweber
IR Consulting Engineer, GE Aviation
Tutorial Chair, Combat Survivability Division, NDIA
8:15 – 9:45 am  FUNDAMENTALS OF AIRCRAFT COMBAT SURVIVABILITY  
INGERSOLL HALL  
Chris Adams  
Senior Lecturer, Naval Postgraduate School  
Dr. Mark Couch  
Research Staff Member, Institute of Defense Analysis  
Vice Chair, Combat Survivability Division, NDIA

9:45 – 10:15 am  NETWORKING BREAK  
INGERSOLL HALL FOYER

10:15 – 11:30 am  FUNDAMENTALS OF AIRCRAFT COMBAT SURVIVABILITY, CONT’D  
INGERSOLL HALL

11:30 am  – 1:00 pm  LUNCH ON OWN

1:00 – 1:15 pm  INTRODUCTORY REMARKS  
INGERSOLL HALL  
Gary Wollenweber  
IR Consulting Engineer, GE Aviation  
Tutorial Chair, Combat Survivability Division, NDIA

1:15 – 2:45 pm  WEAPON SYSTEM AND PLATFORM CYBERSECURITY FUNDAMENTALS  
INGERSOLL HALL  
Dr. Bill “Data” Bryant  
Systems Security Engineer, Modern Technology Solutions, Inc.  
Col William ‘$’ Young, Jr.  
Special Advisor to USAF Warfare Center Commander, U.S. Air Force

2:45 – 3:15 pm  NETWORKING BREAK  
INGERSOLL HALL FOYER

3:15 – 5:00 pm  WEAPON SYSTEM AND PLATFORM CYBERSECURITY FUNDAMENTALS CON’T  
INGERSOLL HALL

6:00 – 7:30 pm  NETWORKING RECEPTION  
HYATT REGENCY MONTEREY, SPYGLASS ROOMS 1 & 2
### Registration Open
**KING HALL FOYER**

### Continental Breakfast
**KING HALL PATIO**

### Welcome and Introductory Remarks
**KING HALL**
- **Barry Vincent**
  - Senior Lead Engineer, Booz Allen Hamilton
  - Symposium Chair, Combat Survivability Division, NDIA
- **BG Stephen Mundt, USA (Ret)**
  - Chair, Combat Survivability Division, NDIA
- **VADM Ann E. Rondeau, USN (Ret), Ed.D**
  - President, Naval Postgraduate School

### Government Keynote Address
**KING HALL**
- **MG Tim Gowen, ARNG**
  - Deputy Commanding General, Army Futures Command

### Poster and Display Hall Open
**KING HALL LOWER LEVEL AND PATIO**

### Networking Break
**KING HALL LOWER LEVEL AND PATIO**

### Session 1 – Cyber

#### Introduction to Session
**KING HALL**
- **Jack Rau**
  - Chief Analyst, Boeing Phantom Works
  - Session Chair, Combat Survivability Division, NDIA

#### Cyber Resiliency as a Key Element of Holistic Aircraft Survivability
**KING HALL**
- **Tom Barnett**
  - Lead, Cyber Technology Integration Lead, PEO Aviation
10:35 – 11:00 am  
**CYBER MODEL-BASED ENGINEERING IN AIRCRAFT SURVIVABILITY ANALYSIS**  
KING HALL  
Ambrose Kam  
Fellow, Lockheed Martin Corporation

11:00 – 11:25 am  
**CYBER RISK FROM THE COCKPIT TO THE MAINTAINER – PLATFORM CYBER LESSONS LEARNED**  
KING HALL  
Dr. David Bibighaus  
Principal, Booz Allen Hamilton

11:25 – 11:50 am  
**IMPROVING AIRCRAFT COMBAT SURVIVABILITY THROUGH CYBERSECURITY**  
KING HALL  
Michael Overstreet  
Senior Cybersecurity Manager, Cisco

11:50 am – 1:05 pm  
**NETWORKING LUNCH**  
HERRMANN HALL

1:05 – 1:15 pm  
**RECONVENE**  
KING HALL

**SESSION 2 – CYBER**

1:15 – 1:25 pm  
**INTRODUCTION TO SESSION**  
KING HALL  
Amy Howell  
Director, F-35 Development, Lockheed Martin Aeronautics  
Session Chair and Secretary, Combat Survivability Division, NDIA

1:25 – 1:50 pm  
**FOUNDATIONS OF CYBER-SURVIVABLE WEAPON SYSTEMS AND MISSIONS**  
KING HALL  
Dr. Joshua Edmision  
System Architect, Northrop Grumman Corporation

1:50 – 2:15 pm  
**ENABLING AIRCRAFT SURVIVABILITY THROUGH VIRTUALIZATION**  
Will Abele  
Director, Embedded Research, Star Lab Corporation
2:15 – 2:45 pm  NETWORKING BREAK  
KING HALL LOWER LEVEL AND PATIO

2:45 – 3:10 pm  AIRCRAFT CYBER COMBAT SURVIVABILITY  
Dr. Bill “Data” Bryant  
Systems Security Engineer, Modern Technology Solutions, Inc.

4:30 – 7:00 pm  NETWORKING RECEPTION AND Awardee Celebration  
OFF-SITE LOCATION: A TASTE OF MONEREY  
**Purchase of an additional ticket required for all attendees and guests; may be purchased during registration process**

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THURSDAY, NOVEMBER 7

7:00 am – 4:00 pm  REGISTRATION OPEN  
KING HALL FOYER

7:00 – 8:00 am  CONTINENTAL BREAKFAST  
KING HALL PATIO

8:00 – 8:15 am  WELCOME AND ADMINISTRATIVE REMARKS  
KING HALL  
Barry Vincent  
Senior Lead Engineer, Booz Allen Hamilton  
Symposium Chair, Combat Survivability Division, NDIA

8:15 – 9:00 am  INDUSTRY KEYNOTE ADDRESS  
KING HALL  
Mark Wilson  
COO, Rolls-Royce Liberty Works

SESSION 3 – THREATS AND OPERATIONS

9:00 – 9:10 am  INTRODUCTION TO SESSION  
KING HALL  
Andrew Smith  
Director, Survivability Technologies, Rolls-Royce North American Technologies, Inc.  
Session Chair, Combat Survivability Division, NDIA
9:10 – 9:35 am  MODERN RADAR-GUIDED SAM TRENDS  
KING HALL  
Riley Freelove  
Electronics Engineer, Defense Intelligence Agency/Missile and Space Intelligence Center

9:35 – 10:05 am  NETWORKING BREAK  
KING HALL LOWER LEVEL AND PATIO

10:05 – 10:30 am  OVERVIEW OF EMERGING THREATS AGAINST UNMANNED AND THE UNIQUE CHALLENGES WE FACE  
KING HALL  
Mike Atwood  
Senior Director, Advanced Programs, Aeronautical Systems, General Atomics

10:30 – 10:55 am  ANALYSIS OF NOVEL VHF SURVEILLANCE RADAR  
KING HALL  
Kevin Tibbetts  
Technical Staff, MIT Lincoln Laboratory

10:55 – 11:20 am  AC-130W INFRARED SUPPRESSOR IR GROUND AND FLIGHT MEASUREMENTS WITH LIBRA ANALYSIS (U)  
KING HALL  
Nicholas Metzger  
IRSS Technical Specialist, Rolls-Royce North American Technologies, Inc.

11:20 am – 1:20 pm  AWARDS LUNCHEON  
HERRMANN HALL  
Robert Gierard  
Director, Operations Analysis, Space and Airborne Systems, Raytheon Company  
Awards Chair, Combat Survivability Division, NDIA

**Combat Survivability Award for Lifetime Achievement**  
Neal Brune  
Vice President, Countermeasures Business Development, Armtec Countermesure Company, Esterline Defense Technologies

**Combat Survivability Award for Technical Achievement**  
James Rhoads  
Research Staff, Institute for Defense Analyses

**RADM Robert H. Gormley Combat Survivability Award for Leadership**  
Gary Wollenweber  
IR Consulting Engineer, GE Aviation  
Tutorial Chair, Combat Survivability Division, NDIA

**Young Professional Award for Combat Survivability**  
Laura Ross  
Technical Staff, MIT Lincoln Laboratory

1:20 – 1:30 pm  RECONVENE  
KING HALL
SESSION 4 – SURVIVABILITY CONSIDERATIONS FOR EMERGING THREATS

1:30 – 1:40 pm  INTRODUCTION TO SESSION  
KING HALL  
Ken McKenzie  
Program Manager for the OSD Strategic Capabilities Office, MTSI  
Session Chair, Combat Survivability Division, NDIA

1:40 – 2:05 pm  AIRCRAFT SURVIVABILITY AGAINST HIGH POWER RADIO FREQUENCY/MICROWAVE-DIRECTED ENERGY WEAPONS  
KING HALL  
John Tatum  
Senior Electronics Engineer, SURVICE Engineering Company

2:05 – 2:30 pm  LIGHTWEIGHT MULTI-FUNCTIONAL STRUCTURAL COMPOSITE WITH INTEGRATED ELECTROMAGNETIC SHIELDING  
KING HALL  
Harry Richard Luzetsky  
SME, Survivability and Composites Technology, SURVICE Engineering Company

2:30 – 3:00 pm  NETWORKING BREAK  
KING HALL LOWER LEVEL AND PATIO

3:00 – 3:25 pm  PASSIVE SURVEILLANCE TESTING  
KING HALL  
Amy Watson  
Software Developer, MIT Lincoln Laboratory

3:25 – 3:50 pm  ENHANCING U.S. 4TH-GEN FIGHTERS AGAINST CURRENT THREATS  
KING HALL  
Sadia Hoq  
Technical Staff, MIT Lincoln Laboratory

3:50 – 4:00 pm  CLOSING REMARKS  
KING HALL  
Barry Vincent  
Senior Lead Engineer, Booz Allen Hamilton  
Symposium Chair, Combat Survivability Division, NDIA

4:00 pm  SYMPOSIUM ADJOURNS
MARK WILSON
Chief Operating Officer
Rolls-Royce Liberty Works

BIOGRAPHIES

Mark Wilson is the Chief Operating Officer (COO) for Rolls-Royce North American Technologies, Inc., (aka LibertyWorks®), having held this position since 2010. The primary mission of LibertyWorks is to create an agile, entrepreneurial team that excels at developing innovative, affordable power system solutions that enable Rolls-Royce to provide segment-leading solutions for our U.S. Defense customers.

Mark joined Rolls-Royce in 1982 and has moved through a series of engineering leadership positions over the past 37 years. Prior to his role leading LibertyWorks, he was Chief Engineer - JSF LiftSystem®, leading the development of the Rolls-Royce LiftSystem for the F-35B through qualification for flight test. Prior to that, Mark was the Rolls-Royce Chief Engineer for the F136 engine as part of the partnership with GE, and, before that, he was the Chief Engineer for Defense Engines, managing the in-development and in-service engine fleet.

Mark holds a Bachelor of Science degree in Aerospace Engineering from the New York Institute of Technology. In 2010, he completed the Global 2020 Executive Leadership Program from the Dartmouth College Tuck School of Business and then, in 2017, he completed the Columbus Leadership Program from the University of Oxford Said Business School. Mark is currently Board Member of MxD (Manufacturing x Digital), one of the Manufacturing USA Institutes.

MG TIM GOWEN, ARNG
Deputy Commanding General
Army Futures Command

Major General Timothy Gowen was appointed as the 30th Adjutant General of Maryland, effective September 1, 2019. The Adjutant General is responsible for the daily operations of the Maryland Military Department, which includes the Maryland Army National Guard, Maryland Air National Guard, Maryland Emergency Management Agency, and Maryland Defense Force. Major General Gowen is a senior advisor to the governor and is responsible for the readiness, administration, and training of more than 6,700 members of the Military Department. He serves as the official channel of communication between the governor and the National Guard Bureau, and is a member of the governor’s cabinet.

Major General Gowen was most recently assigned as the ARNG Deputy Commanding General of the newly established Army Futures Command in Austin, Texas. There, he was responsible for oversight and strategic guidance to the Army National Guard acquisition community and to oversee National Guard equities throughout the Army modernization system. He served as the Assistant Adjutant General - Army for the Maryland National Guard between April 2015 and September 2018, and was responsible for the readying, training, and equipping of more than 4,700 Soldiers for State and Federal missions. Major General Gowen also held a “dual-hat” position as Deputy Commanding General for Army National Guard at the United States Aviation Center of Excellence, Fort Rucker, Alabama.

Major General Gowen was commissioned as a Distinguished Military Graduate in 1986 through the Reserve Officer Training Corp program at Embry-Riddle Aeronautical University with a degree in Aeronautical Science. He has engineering degrees from Temple University and the University of Maryland. He is a Senior Army Aviator and a graduate of the United States Naval Test Pilot School and U.S. Army War College.

Before his appointment to Adjutant General for Maryland, Major General Gowen was a U.S. Government Civil Servant employed by the Department of the Navy at Patuxent River Naval Air Station, Maryland. There, he served as an aerospace engineer for the Naval Air Systems Command. He has more than 24 years of government acquisition experience to include systems engineering, research and development, test and evaluation, science and technology, and program management.

THANK YOU TO OUR TUESDAY NETWORKING RECEPTION SPONSOR

AVX/L3Harris
TUTORIAL 1: Fundamentals of Aircraft Combat Survivability

Chris Adams
Senior Lecturer, Naval Postgraduate School

Dr. Mark Couch
Research Staff Member, Institute of Defense Analysis
Vice Chair, Combat Survivability Division, NDIA

This tutorial is an introduction to the aircraft combat survivability discipline. It will present history, terminology, concepts, measures and threat effects, and methodology for assessing non-nuclear combat survivability analysis and design of both fixed-wing and rotary-wing aircraft. The methodologies discussed will also be applicable to unmanned air systems (UAS), missiles, ships, and ground vehicles. It is based on the AIAA textbook “The Fundamentals of Aircraft Combat Survivability Analysis and Design”, 2nd edition, by Dr. Robert Ball. Specific topics include: Overview of the Fundamentals, Historical Perspective, Survivability Assessment, Designing for Survivability, Survivability Modeling and Simulation, and Testing for Survivability. This tutorial is intended for the newcomer to the survivability discipline as an engineer, tester, maintainer or manager or first-time attendee at the Aircraft Survivability Symposium.

Mr. Christopher Adams is a lecturer at the Naval Postgraduate School's (NPS) department of Mechanical and Astronautical Engineering. He is a retired Navy Commander and the former Associate Dean of the Graduate School of Engineering and Applied Sciences at the Naval Postgraduate School in Monterey, CA having served in that position for over 3 years. Mr. Adams has had numerous tours flying F-14 Tomcats, and EA-6B Prowlers for the Navy. Mr. Adams regularly teaches the three day Aircraft Combat Survivability Short Course. Mr. Adams has a M.S. in Aerospace Engineering from the Naval Postgraduate School.

Dr. Mark Couch completed three operational tours with Helicopter Mine Countermeasures Squadrons accumulating 1500 flight hours in the RH-53D and MH-53E aircraft with 300 hours under tow conducting mine countermeasures operations. He received a Doctorate in Aeronautical and Astronautical Engineering in 2003 from the Naval Postgraduate School while serving as a faculty member in the Department of Aeronautics and Astronautics. He currently assesses Aircraft Survivability features and performance in his role at IDA.

TUTORIAL 2: Weapon Systems and Platform Cybersecurity Fundamentals

Dr. Bill “Data” Bryant
Systems Security Engineer,
Modern Technology Solutions, Inc.

Col William "$" Young, Jr.
Special Advisor to USAF Warfare Center Commander,
U.S. Air Force

Modern and legacy weapon systems are completely reliant upon cyberspace enabled capabilities to be effective in accomplishing their missions but, cyber-attacks are increasingly calling into question the ability of our principal weapon systems to function effectively in a cyber-contested environment. Traditional attacks against command and control and logistics systems are expected and that fight will take place in the traditional portions of cyberspace, but weapon systems such as aircraft are also full of computing systems that can be attacked. These systems utilize different technology, operating concepts, and timelines that make traditional IT defenses not effective in this space.

This tutorial is aimed at non-cyber focused engineers and engineering managers and will start by demystifying the cyberspace domain, the way that computing devices actually work, common cyberspace defenses, and some common attacks. The tutorial will describe the advantages of doing cybersecurity analysis earlier in the lifecycle by an overview of a powerful analysis technique. The tutorial will next extend traditional Aircraft Survivability concepts and tools into cyberspace by introducing Aircraft Cyber Combat Survivability that is currently in development. The tutorial will conclude with weapon systems cybersecurity within current acquisition rules.

Dr. Bill “Data” Bryant is a cyberspace defense and risk leader with a diverse background in operations, planning, and strategy. He is a thought leader in the cyber defense of weapon systems and other non-traditional cyber-physical systems with multiple published works coupled with numerous operational and strategic assignments building these capabilities in complex organizations. Dr. Bryant has an unusually diverse background including more than 25 years in the Air Force where he was a fighter pilot, planner, and strategist. He helped create Task Force Cyber Secure and served as its deputy director; he also served as the Air Force deputy Chief Information Security Officer and developed and successfully implemented numerous proposals and policies to improve the cyber defense of weapon systems.

Col. William "$" Young, Jr. is an accomplished strategist and leader with 28 years in the United States Air Force. He currently serves as the Special Advisor to the US Air Force Warfare Center Commander for Spectrum Warfare. He recently commanded the 53rd Electronic Warfare Group (EWG) at Eglin Air Force Base. The 53 EWG is responsible for the secure development, testing, and distribution for nearly all mission data software supporting USAF combat aircraft. Colonel Young possesses a PhD in Engineering Systems from MIT. Col. Young is also a Military Fellow and consultant for MIT Lincoln Laboratory for the lab’s Cyber System Assessments Group.
SAVE THE DATE
2020 NDIA JOINT
ARMAMENTS AND
ROBOTICS
CONFERENCE & EXHIBITION

Advancing Combat Lethality

Join NDIA’s Armaments and Robotics Divisions at this inaugural event for briefings, speeches, exhibits, and demonstrations that investigate the full spectrum of capabilities within armament and robotic systems. You won’t want to miss this future-focused, hands-on opportunity to explore next-generation technologies that will serve as critical force multipliers on the multi-domain battlefield.

April 27 – 30 | Columbus, GA | NDIA.org/JARCE20

GIVING THE ARMY AN EDGE

The U.S. Army seeks its next-generation aircraft and the AVX Aircraft and L3Harris compound, coaxial helicopter (CCH) answers all requirements with a mindset to exceed. Our cutting-edge technologies provide faster, lighter and more lethal capability.

Designed to defeat tomorrow’s threats.

#FARACCH
2020 AIRCRAFT SURVIVABILITY SYMPOSIUM

SAVE THE DATE

Aircraft Survivability in Multi-Domain Operations

Join military, government, industry, and academic leaders for technical discussions about emerging technologies and combat lessons learned as they relate to the aircraft survivability community. Hosted at the Naval Postgraduate School, this three-day symposium’s classified venue offers a unique opportunity to foster innovation and conversation through tutorials, presentations, keynotes, and collaboration.

November 3 – 5 | Monterey, CA | NDIA.org