

2019 **AIRCRAFT SURVIVABILITY SYMPOSIUM**

Evolving Today's Force to Dominate Tomorrow's Threat

November 5 – 7 | Monterey, CA | [NDIA.org/Aircraft19](https://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](https://www.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.

LEADERSHIP AND COMMITTEES

Barry Vincent

Symposium Chair

Dr. Mark Couch

Vice Chair

Robert Gierard

Awards Committee Chair

Amy Howell

Secretary

Ron Dexter

Poster Chair

Gary Wollenweber

Tutorial Chair

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SCHEDULE AT A GLANCE

TUESDAY, NOVEMBER 5

OPTIONAL TUTORIAL SESSIONS

Naval Postgraduate School
Ingersoll Hall
8:00 am – 5:00 pm

NETWORKING RECEPTION

Hyatt Regency Monterey
Spyglass 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](https://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 attendees (name and organization) after the conference. Please complete the survey, which helps make our event even more successful in the future.

EVENT CONTACTS

Jessica Lewton

Meeting Planner
jlewton@NDIA.org

Tatiana Jackson

Program Manager, Divisions
tjackson@NDIA.org

PLANNING COMMITTEE

Barry Vincent
Symposium Chair

Ron Dexter
Poster Chair

Jack Rau
Session Chair

Dr. Mark Couch
Symposium Vice Chair

Robert Gierard
Awards Chair

Andrew Smith
Session Chair

Chris Adams
Symposium Planning

Amy Howell
Secretary/Session Chair

Gary Wollenweber
Tutorial Chair

Ken McKenzie
Session 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
Student, 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

INGERSOLL HALL FOYER

7:00 – 8:00 am

CONTINENTAL BREAKFAST

INGERSOLL HALL FOYER

8:00 – 8:15 am

WELCOME REMARKS

INGERSOLL 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 CON'T 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., PhD Special Advisor to USAF Warfare Center Commander, USAF, SCASD Consulting
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 ROOM 1-2

WEDNESDAY, NOVEMBER 6

- 7:00 am – 3:35 pm **REGISTRATION OPEN**
KING HALL FOYER
- 7:00 – 8:00 am **CONTINENTAL BREAKFAST**
KING HALL PATIO
- 8:00 – 8:45 am **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
- NPS Personnel--Provost or NPS President**
Title, ORG
- 8:45 – 9:30 am **GOVERNMENT KEYNOTE ADDRESS**
KING HALL
- MG Tim Gowen, ARNG**
Deputy Commanding General, Army Futures Command
Assistant Program Executive Officer for Engineering, NAVAIR
- 9:30 am – 3:00 pm **POSTER AND DISPLAY HALL OPEN**
KING HALL LOWER LEVEL AND PATIO
- 9:30 – 10:00 am **NETWORKING BREAK**
KING HALL LOWER LEVEL AND PATIO

SESSION 1 – CYBER

- 10:00 – 10:10 am **INTRODUCTION TO SESSION**
KING HALL
- Jack Rau**
Chief Analyst, Boeing Phantom Works
Session Chair, Combat Survivability Division, NDIA
- 10:10 – 10:35 am **CYBER RESILIENCY AS A KEY ELEMENT OF HOLISTIC AIRCRAFT SURVIVABILITY**
KING HALL
- Tom Barnett**
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, 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

****Additional purchase of a ticket required for all attendees and guests; may be purchased during registration process****

SPONSORED BY



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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 Scott Bigelow Senior Intelligence Officer, Defense Intelligence Agency/Missile and Space Intelligence Center
9:35 – 10:05 am	NETWORKING BREAK KING HALL PATIO AND LOWER LEVEL
10:05 – 10:30 am	OVERVIEW OF EMERGING THREATS AGAINST UNMANNED AND THE UNIQUE CHALLENGES WE FACE KING HALL Mike Atwood Senior Director, Advance Programs, General Atomics – Aeronautical
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, Technology Innovation & Strategic Pursuits, Raytheon - Space and Airborne Systems Awards Chair, Combat Survivability Division, NDIA
	<div> Combat Survivability Award for Lifetime Achievement Neal Brune VP CM's, Armtec Countermeasure Company, Esterline Defense Technologies </div> <div> Combat Survivability Award for Technical Achievement James Rhoads Research Staff, Institute for Defense Analysis </div>
	<div> RADM Robert H. Gormley Combat Survivability Award for Leadership Gary Wollenweber IR Consulting Engineer, GE Aviation Tutorial Chair, Combat Survivability Division, NDIA </div> <div> Young Professional Award for Combat Survivability Laura Ross Technical Staff, MIT Lincoln Lab </div>
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 for Survivability and Composites Technology, SURVICE Engineering Company

2:30 – 3:00 pm

NETWORKING BREAK

KING HALL PATIO AND LOWER LEVEL

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

CONFERENCE ADJOURNS

BIOGRAPHIES



MARK WILSON

Chief Operating Officer
Rolls-Royce Liberty Works

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 US 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 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 Assistant Program Executive Officer for Engineering
NAVAIR

Major General Timothy E. 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. He 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 from April 2015 to 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 US 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. Major General Gowen is married to Erica, an aerospace engineer at Patuxent River, and has three children.

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, threats 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., PhD

Special Advisor to USAF Warfare Center
Commander, USAF, SCASD Consulting

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

VENUE MAP

BUILDING KEY

ACADEMIC BUILDINGS

Bullard Hall (233)	B4
Center for Civil-Military Relations (259)	C2
Dudley Knox Library (339)	A3
Glasgow Hall (302/304/305)	A2
Halligan Hall (234)	A4
Ingersoll Hall (330)	A3
King Hall (237)	B5
ME Lecture Hall (255)	A5
Quad Auditorium (247)	A5
Reed Hall (310)	A3
Root Hall (235)	A3/B4
Spanagel Hall (232)	B5
Watkins Hall (245/246)	A4

BASE SERVICES

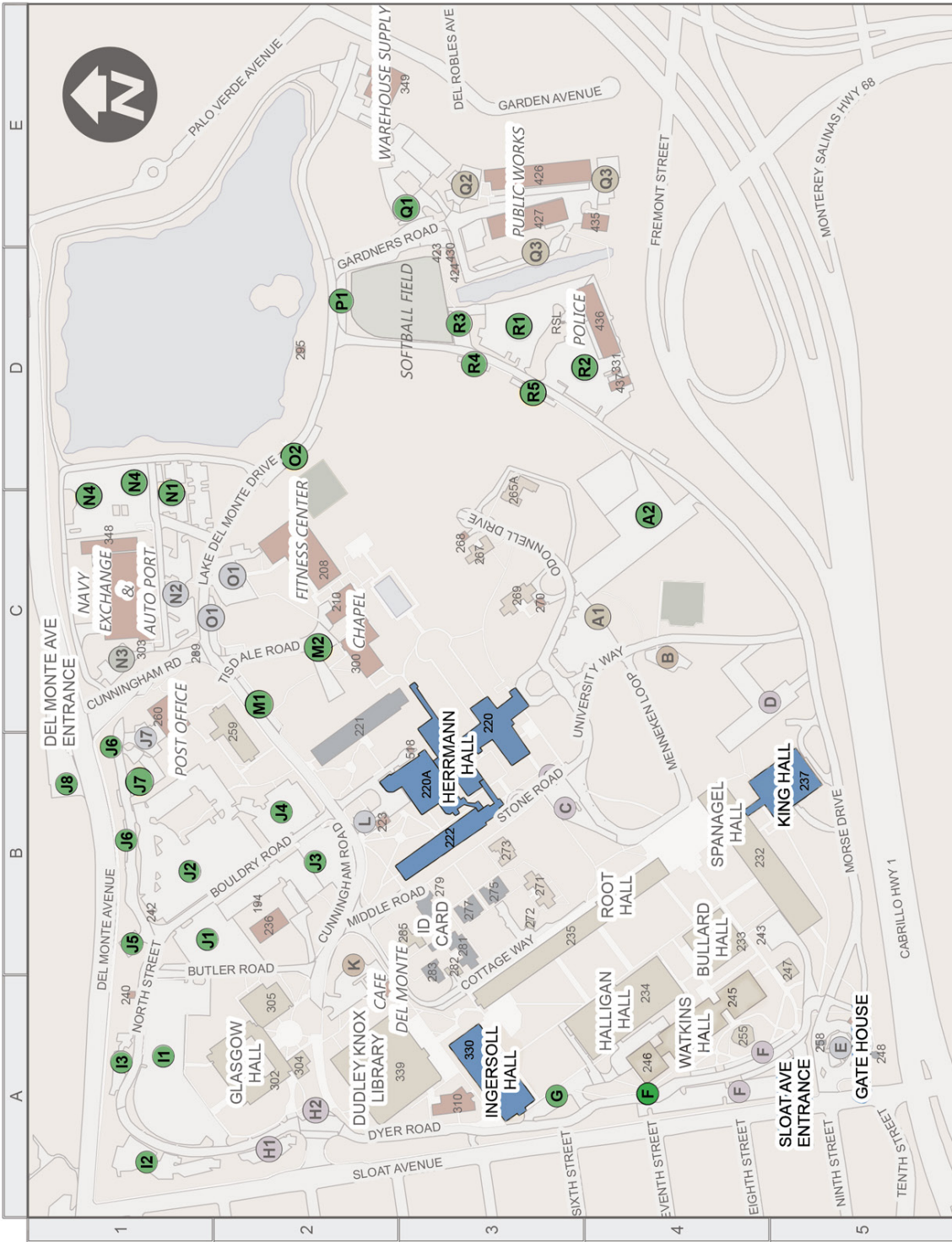
Cafe Del Monte (290)	B3
Chapel/Chaplains Office (300)	C2
Dental Clinic (220)	C3
El Prado Dining (220)	C3
Fitness Center (208)	C2
Navy Exchange (NEX, 303)	C1
Navy Exchange Autoport (345)	C1
Police Services (436)	D4
Post Office (280)	C2
PSD (277)	C2
Public Works (426/427)	B3
Recreation Fields/Courts	D3/E3
Tickets & Tours (MWR, 220)	C2/C4/D3
Trident Room Dining (220)	C3

ADMINISTRATIVE SERVICES

NSAM Headquarters (271)	B3
Human Resources (220)	C3
ID Card Lab (280)	B3
Main Gate (258)	A5
Registrar (220)	C3
Travel Office (300)	C2
Vehicle Registration (254)	B5

LODGING

International Student BOQ	
Herrmann Hall (221/222)	B3/C3
Navy Gateway Inns & Suites	
Herrmann Hall (220)	B3



NAVAL SUPPORT ACTIVITY MONTEREY Monterey, California

ALL EMERGENCIES DIAL 9-911	
POLICE SERVICES	656-2555
PUBLIC WORKS	656-2526
POST OFFICE	656-1734
CHapel OFFICE	333-2241
NPS QUARTERDECK	656-2441
VEHICLE PASSID.	656-3477
WORK ORDER	656-3223
TICKET & TOURS (MWR)	656-3223
LEGAL OFFICE	656-2506
NAVY EXCHANGE	373-7277
NSAM HEADQUARTERS	656-2279
NAVY GATEWAY INNS & SUITES	656-2060

ALL AREA CODE PREFIXES (831)

PARKING KEY

- Open Parking
 - Carpool/HOV
 - Permit
 - Timed
 - Restricted
- *Motorcycle Parking is located near Lot F, Lot C, and Lot K
- **Some lots have mixed parking
- Head signage.



AUGUST 2017
POC: Laura Horton NSAM PWD

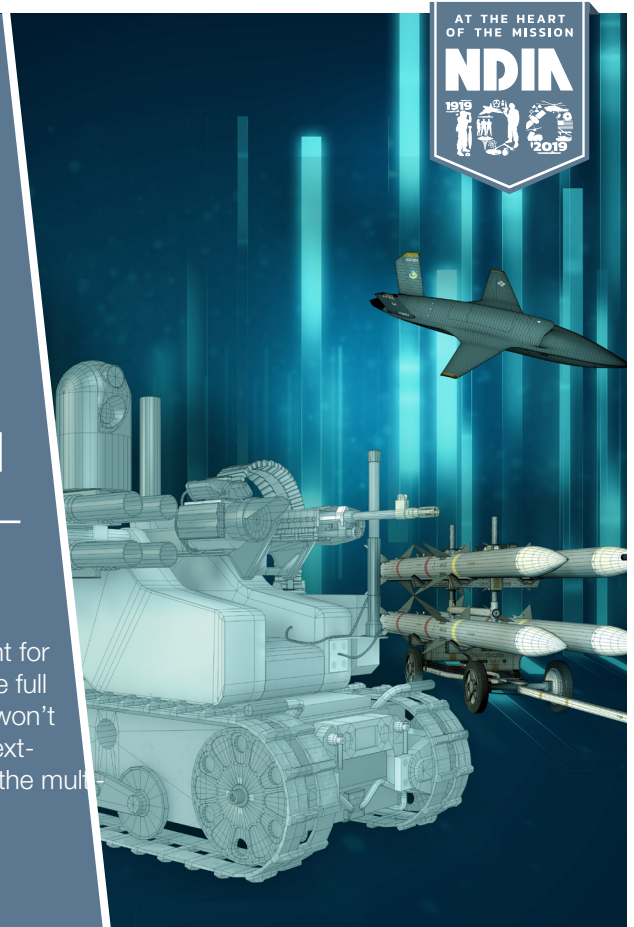
SAVE THE DATE

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](https://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.

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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](https://www.ndia.org)

