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.
WELCOME TO THE SPACE WARFIGHTING INDUSTRY FORUM

On behalf of NDIA and the Space Warfighting Industry Forum (SWIF) committee, we would like to welcome you to our inaugural event joining industry with leaders from the U.S. Space Command, the U.S. Space Force, the Department of Defense (DoD), and numerous other space contributors. Our goal is to communicate openly about space warfighting and the new challenges that the U.S. government and its industry partners must address to secure the space domain.

This inaugural event builds on the legacy of the NDIA Space Industry Forum that has linked our industry partners with the DoD space leaders to discuss the problems our government leaders are facing today and in the foreseeable future. Those early exchanges have set the stage for our SWIF discussions, panels, and presentations. Additionally, while we had initially envisioned this forum taking place in person, at multiple classification levels, and with engagement by U.S. Air Force Academy cadets, our precautions in response to the COVID-19 virus have driven us to reconfigure the format of SWIF to ensure the safety of our community while still having a rich exchange of ideas. This two-day forum will be held at an unclassified level to expand its reach to our government and industry partners who are working from their offices, their homes, or their favorite quarantine location during this fight against the spread of COVID-19.

At this year’s virtual event, we will hear from several exciting keynote speakers and have lively exchanges through moderated panels that feature leaders from industry, government, and the international defense industry. The NDIA Rocky Mountain Chapter will help kick off the forum by presenting the annual Hartinger Award to the 2020 recipient, Lt Gen John Thompson, the Commander of the Space and Missile Systems Center, in recognition of his outstanding achievement in the military space mission of the United States.

We are glad you have joined us for this ground-breaking event. We, along with the passionate group of NDIA professionals and volunteers, hope you will both contribute to and learn from this forum today, tomorrow, and into the future!

Marty Whelan
Vice Chair, Space Division, NDIA
Senior Vice President, Aerospace Corporation

Kevin “Morty” Mortensen
President, Rocky Mountain Chapter, NDIA
Vice President, Business Development, BAE Systems

Philip Kwong
Executive Vice President, Rocky Mountain Chapter, NDIA
Manager, Satellite Networks Development, Intelsat General

DIVISION LEADERSHIP
Gary Testut
Division Chair
Marty Whelan
Division Vice Chair
Brig Gen Russ Anarde, USAF (Ret)
Subcommittee Chair
John Manney
Subcommittee Chair
Mike Pierson
Subcommittee Chair
Scott Stover
Subcommittee Chair
Dr. Tom Walker
Subcommittee Chair

SPACE DIVISION
WHO WE ARE

NDIA’s Space Division offers a continuing forum for communications, discussions, and exchanges of view on all space activities with the government through periodic meetings, conferences, symposia, and studies that the Division conducts. The Division works jointly and coordinates with NDIA Chapters and other Divisions as well as U.S. defense and government agencies in activities relating to space matters. It maintains close liaison with other industry associations, professional societies, universities, and other groups with similar interests in meeting its mission objectives. The Division addresses numerous key areas, including the cost reduction and cost credibility of space programs; space operations; space industry information programs; strategic defense initiatives; space policy and strategy; and space research, development, and technology.
ROCKY MOUNTAIN CHAPTER

WHO WE ARE
NDIA’s Rocky Mountain Chapter focuses on supporting member needs to ensure the strength and resiliency of the local defense economy that contributes billions of dollars to our state and creates thousands of jobs centered in the Colorado Springs and Denver metro areas. Our chapter creates opportunities for collaboration between academia, industry, U.S. Space Force, and U.S. Space Command to ensure our warfighters always have the best training, capabilities and materials to ensure competitive advantage across the spectrum of conflict within the space domain. In addition, the chapter conducts outreach and supports, critical industry and military missions, facilities and operating bases including: Peterson AFB, Schriever AFB, Buckley AFB, and Cheyenne Mountain Air Force Station; North American Aerospace Defense Command (NORAD) / U.S. NORTHCOM; Army Strategic Command (ARSTRAT) / Army Space and Missile Defense Command (SMDC); Fort Carson and its Pinon Canyon Maneuver Site; the U.S. Air Force Academy; Aerospace Data Facility-Colorado (ADF-C), the 10th Special Forces Group; the Colorado National Guard; the High Altitude Army Training Facility; The Pueblo Chemical Depot; Intercontinental Ballistic Missile (ICBM) Sites in northeastern Colorado; and the Missile Defense Agency’s Integration Operations Center.

AGENDA
THURSDAY, AUGUST 20

9:30 – 9:40 am MDT
11:30 – 11:40 am EDT
OPENING REMARKS
Gen Hawk Carlisle, USAF (Ret)
President and CEO, National Defense Industrial Association (NDIA)

9:40 – 10:00 am MDT
11:40 am – 12:00 pm EDT
PRESENTATION OF THE GENERAL JAMES V. HARTINGER AWARD
Philip Kwong
Executive Vice President, Rocky Mountain Chapter, NDIA
Manager, Satellite Networks Development, Intelsat General

Loula Moschonas
President, Greater Los Angeles Chapter, NDIA

Lt Gen John Thompson, USAF
Commander, Space and Missile Systems Center

10:00 – 10:15 am MDT
12:00 – 12:15 pm EDT
BREAK

CHAPTER LEADERSHIP
Kevin “Morty” Mortensen
Chapter President
Philip Kwong
Chapter Executive Vice President
Karri Palmetier
Chapter Treasurer
Michael Pennica
Chapter Secretary

COMMITTEE CHAIRS
Henry Baird
Jeff Benesh
Kristen Christy
Joe Kahoe
Richard “Doc” Klodnicki
Rayetta Lantzy
Tony Muro
Rusty Powell
Kelly Shelton
Tom Taylor
Laura Turner
10:15 – 11:15 am MDT
12:15 – 1:15 pm EDT
OPENING KEYNOTE: U.S. SPACE COMMAND AND U.S. SPACE FORCE: STRUCTURE AND INTEGRATION
Lt Gen David Thompson, USAF
Vice Commander, U.S. Space Force

11:15 – 11:30 am MDT
1:15 – 1:30 pm EDT
NETWORKING CHAT LOBBY BREAK

11:30 am – 12:30 pm MDT
1:30 – 2:30 pm EDT
PANEL: INTEGRATING SPACE CAPABILITIES
Dr. Bill LaPlante
Senior Vice President and General Manager, National Security Sector, MITRE
Moderator
BG Kevin Whale, RCAF
Special Advisor to the Deputy Commander, Headquarters, U.S. Space Force
Tim Deaver
Director, U.S. Space Systems, Airbus U.S. Space & Defense, Inc.
Kay Sears
Vice President and General Manager, Military Space, Lockheed Martin
Brig Gen Jody Merritt, USAF
Mobilization Assistant to the Combined Force Space Component Commander, U.S. Space Command
Commander, Space Operations, U.S. Space Force

12:30 – 12:45 pm MDT
2:30 – 2:45 pm EDT
BREAK

12:45 – 1:45 pm MDT
2:45 – 3:45 pm EDT
PANEL: REQUIREMENT DEVELOPMENT AND DISSEMINATION
Lt Gen Mark Shackelford, USAF (Ret)
Moderator
Shawn Barnes
Deputy Assistant Secretary of the Air Force for Space Acquisition and Integration
Lt Gen John Thompson, USAF
Commander, Space and Missile Systems Center
Michael Dickey
Director, Enterprise Strategy and Architectures Office
Chief Architect, Headquarters, U.S. Space Force
Wallis Laughrey
Vice President, Space & C2 Systems, Raytheon Intelligence and Space

EXECUTIVE SEARCH
AEROSPACE + DEFENSE PRACTICE
McDermott + Bull leverages vertical experience, innovative thinking, and proven time-saving methodologies to identify top leadership talent and provide game-changing transformation for our clients. Partner with us today.
msanborn@mbexec.com
1:45 – 2:00 pm MDT
3:45 – 4:00 pm EDT

2:00 – 3:00 pm MDT
4:00 – 5:00 pm EDT

NETWORKING CHAT LOBBY BREAK

PANEL: CONGRESSIONAL PRIORITIES
Gen Hawk Carlisle, USAF (Ret)
President and CEO, NDIA
Moderator

Sen Cory Gardner (CO)
Subcommittee on Aviation and Space, Committee on Commerce, Science, and Transportation, U.S. Senate

Rep Denny Heck (WA)
Permanent Select Committee on Intelligence, Subcommittee on Strategic Technologies and Advanced Research, U.S. House of Representatives

Rep Mike Turner (OH)
Ranking Member, Subcommittee on Strategic Forces, Armed Services Committee, U.S. House of Representatives

FRIDAY, AUGUST 21

9:00 – 9:15 am MDT
11:00 – 11:15 am EDT

OPENING REMARKS
Gen Hawk Carlisle, USAF (Ret)
President and CEO, NDIA

Moment of silence in honor of Col Tom Falzarano of the U.S. Space Force and others who have lost their lives on Active Duty.

DEDICATED TO SUPPORTING AND CHAMPIONING U.S. FEDERAL AGENCIES AND THEIR MISSIONS.

Galloway

With over 35 years in the industry, Galloway has the knowledge and experience to make your project a success.

- Designer of Record (DOR) for design/build projects and fiber optic experience on Peterson AFB
- Survey staking, commissioning, architectural design, and civil, MEP and structural engineering at U.S. Air Force Academy, Peterson AFB, Buckley AFB and Fort Carson

GALLOWAYUS.COM

SERVICES OFFERED
- Site & Master Planning
- Civil Engineering
- Survey/GIS
- Architecture
- Structural & MEP Engineering
- Facade Services
- Interior Design
- Building Information Modeling
- Design/Build
- Landscape Architecture
- Site Lighting Design
- Fuel System Design
- Energy Audits & Management
- Sustainability & LEED Design
- Commissioning & Retro-Commissioning
- Program Management
- Construction Contract Administration

Sponsored by

Sentinel
Pioneering tomorrow’s technology for today

At BAE Systems, we're accelerating launch tempo and mission assurance for current and emerging missions. Our digital engineering services enable complex systems engineering and integration efforts across the spectrum of space operations. Coupled with our world-class model-based systems engineering capabilities, we augment our nation’s space acquisition, operations and sustainment performance.

With you where it counts.

baesystems.com
NETWORKING CHAT LOBBY BREAK

PANEL: DIGITAL ENGINEERING IN SPACE
CAPABILITY ACQUISITION AND MANAGEMENT

Maj Gen Kim Crider, USAF
Mobilization Assistant to the Chief of Space Operations, U.S. Space Force
Moderator

Dr. Scott Nowlin
Chief Engineer, Air Force Solutions—Strategic Systems, Intelligence & Security Sector, BAE Systems, Inc.

Dr. Jamie M. Morin
Vice President, Defense Systems Operations, Aerospace Corporation

Bryan Eberhardt
Director, Global Sales and Marketing, Boeing Space and Missile Systems

Jeff Sneller
Chief Engineer – Next Generation Polar OPIR System, Northrop Grumman Space Systems

BREAK

PANEL: INNOVATION IN SPACE WARFIGHTING

Jason Knudson
Founder and CEO, Vyzva Lab
Board of Directors, Catalyst Campus
Moderator

Dr. Joel Mozer
Chief Scientist, U.S. Space Force

Josh Marcuse
Head of Strategy and Innovation, Global Public Sector, Google Cloud

Rachel Cheetham
Space Senior Staffer, Defense Innovation Board

Lars Hoffman
Senior Vice President, Global Launch Services, Rocket Lab

BREAK

CLOSING KEYNOTE: WARFIGHTING IN SPACE: READY TO FIGHT TONIGHT

MG Tim Lawson, USANG
Mobilization Assistant to the Commander, U.S. Space Command
Currently performing the duties of the Deputy Commander, U.S. Space Command

CLOSING REMARKS

Gen Hawk Carlisle, USAF (Ret)
President and CEO, NDIA

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.
Lt. Gen. John F. Thompson is the Commander, Space and Missile Systems Center, Los Angeles Air Force Base, California. He is responsible for approximately 6,000 employees nationwide and an annual budget of $9 billion. As the Air Force Program Executive Officer for Space, General Thompson manages the research, design, development, acquisition and sustainment of satellites and the associated command and control systems. His extensive portfolio includes military satellite communication, missile warning, navigation and timing, space-based weather, space launch and test ranges, certification for launch, space superiority, responsive space, and other emerging evolutionary space programs.

General Thompson is leading historic changes in National Security Space as one of the most vocal advocates for military space. He is managing the Secretary of the Air Force-directed Space Acquisition Transformation to re-architect the Space and Missile Systems Center and implement innovative approaches that rapidly address emerging threats. General Thompson expertly drove the SMC 2.0 reorganization to initial operational capability and stood up three new PEOs. He cut three layers of bureaucracy and 25 years from the acquisition cycle, which reduced decision timelines by 50%.

General Thompson pioneered the use of Fiscal Year 2016 National Defense Authorization Act Section 804 Middle Tier Acquisition authorities on eight space programs, enabling the delivery of space capabilities a combined 19 years ahead of schedule. He implemented Section 804 prototyping authorities on 12 programs, shaving years off acquisition timelines and exceeding objectives. Through tri-annual reports and strategic communications with Congressional staffs, he maintained full transparency on Section 804 programs, as demonstrated by successful engagements to remove budget marks and/or gain Above Threshold Reprogramming approvals.

General Thompson has successfully supported our international space partnerships. He worked closely with Japan to issue a Request for Proposal to support their satellite and agreement on U.S. payload interface standards. General Thompson negotiated a Memo of Understanding with Norway regarding satellite bus selection and maintained multiple allied partnerships established with Italy, the United Kingdom, Australia, and Canada.

Under his leadership, the Air Force successfully launched 12 National Security Space payloads with 100% mission success, bolstering the Global Positioning System, Advanced Extremely High Frequency, Wideband Global Satellite Communications, Space Based Infrared System, and National Reconnaissance Office satellite constellations. General Thompson awarded $312M in contracts on the Space Enterprise Consortium (SpEC), with many targeted to convert to operational capability. He negotiated reduction of the decades old Launch Claim payout by 50%, saving America $260 million.

General Thompson’s inspirational and innovative leadership has delivered superior space capabilities to the warfighter. He has served as a masterful steward of our Nation’s resources, established effective partnerships in the development of space systems and technologies, and provided successful access to space in support of Air Force and National objectives.

**LT GEN JOHN THOMPSON, USAF**

Commander
Space and Missile Systems Center

Lt. Gen. John F. Thompson is the Commander, Space and Missile Systems Center, Los Angeles Air Force Base, California. He is responsible for approximately 6,000 employees nationwide and an annual budget of $9 billion. As the Air Force Program Executive Officer for Space, General Thompson manages the research, design, development, acquisition and sustainment of satellites and the associated command and control systems. His extensive portfolio includes military satellite communication, missile warning, navigation and timing, space-based weather, space launch and test ranges, certification for launch, space superiority, responsive space, and other emerging evolutionary space programs.

Lt. Gen. Thompson entered the Air Force in 1984 as a graduate of the U.S. Air Force Academy. He has served in a variety of scientific, acquisition and logistics-oriented capacities, including staff assignments at Air Force Systems Command, Air Force Materiel Command and in the office of the Assistant Secretary of the Air Force for Acquisition.

The general has been Chief of the Commodities Division, Ogden Air Logistics Center, Utah, and Chief of the Air Vehicle Division, C-17 System Program Office, Wright-Patterson AFB, Ohio. He also served as Director of Propulsion, Oklahoma City ALC, Okla.; and Chief of Staff, Air Force Materiel Command, Wright-Patterson AFB. He has commanded the 327th Aircraft Sustainment Wing, Tinker AFB, Okla., and the 303rd Aeronautical Systems Wing, Wright-Patterson AFB, Ohio, where he served as Air Force Program Executive Officer for Intelligence, Surveillance and Reconnaissance. General Thompson has also served as Air Force Program Executive Officer for Strategic Systems, Deputy Program Executive Officer for the F-35 Joint Strike Fighter Program, and KC-46 Program Director.

Prior to assuming his current position, Lt. Gen. Thompson was Commander, Air Force Life Cycle Management Center, Wright-Patterson AFB, Ohio.
BIOGRAPHIES

MG TIM LAWSON, USANG

Mobilization Assistant to the Commander, U.S. Space Command
Currently performing the duties of the Deputy Commander, U.S. Space Command

Major General Tim Lawson serves as the Acting Deputy Commander and National Guard Mobilization Assistant to the Commander, U.S. Space Command. Prior to his current role, Major General Lawson served as the Deputy Commanding General for Operations and the Deputy Commander for Support at the U.S. Army Space and Missile Defense Command/Army Forces Strategic Command. Major General Lawson commanded the 100th Missile Defense Brigade (Colorado Springs), and the 32d Infantry Brigade Combat Team, an Infantry Battalion, and a Recruiting and Retention Battalion in the Wisconsin Army National Guard. Major General Lawson deployed as a Platoon Leader during Operation DESERT SHIELD/STORM, as a Company Commander to Kuwait and Bahrain, and as the Regional Police Advisory Commander to Regional Command West, Herat, Afghanistan. Major General Lawson holds a B.S. in Law Enforcement Administration from Western Illinois University and a Master of Strategic Studies from the U.S. Army War College. His decorations include the Legion of Merit with two bronze oak leaf clusters and the Bronze Star Medal with one bronze oak leaf cluster.

LT GEN DAVID THOMPSON, USAF

Vice Commander
U.S. Space Force

Lt. Gen. David D. Thompson is Vice Commander, Headquarters, United States Space Force. He is responsible to the Chief of Space Operations for the U.S. Space Force in carrying out space missions and integrating space policy, guidance, coordination and synchronization of space-related activities and issue resolution for the Department of the Air Force. U.S. Space Force organizes, trains, equips and maintains mission-ready space forces and provides missile warning, positioning, navigation and timing and communications for North American Aerospace Defense Command, U.S. Strategic Command, U.S. Space Command, and the other functional and geographic combatant commands. Lt. Gen. Thompson was commissioned in 1985 as a graduate of the U.S. Air Force Academy. He is a career space officer with assignments in operations, research and development, acquisition and academia. He has commanded operational space units at the squadron, group and wing levels. The general is also an Olmsted Scholar, graduate of the Senior Acquisition Course, and a Level III-Certified Program Manager. Prior to his assignment as Vice Commander, U.S. Space Force, Lt. Gen. Thompson was the Vice Commander, U.S. Air Force Space Command.

SPONSOR DESCRIPTIONS

BAE SYSTEMS

REGISTRATION SPONSOR

BAE Systems, Inc. and its 33,000 people are part of a global defense, aerospace and security company with 87,800 employees worldwide. We deliver products and services for air, land, sea and space, as well as advanced electronics, security, information technology solutions, and customer support and services. Our dedication shows in everything we create and deliver—from advanced electronic systems to cyber operations and intelligence analysis, from combat vehicles to naval weapons, and from ship maintenance and modernization to vehicle upgrades and services. We push the limits of possibility to provide a critical advantage to our customers where it counts.

MAXAR

VIRTUAL LOBBY SPONSOR

Maxar is a trusted partner and innovator in Earth Intelligence and Space Infrastructure. We deliver disruptive value to government and commercial customers to help them monitor, understand and navigate our changing planet; deliver global broadband communications; and explore and advance the use of space. Our unique approach combines decades of deep mission understanding and a proven commercial and defense foundation to deploy solutions and deliver insights with unrivaled speed, scale and cost effectiveness. Maxar’s 4,000 team members in 20 global locations are inspired to harness the potential of space to help our customers create a better world.
HANDOUTS PAGE SPONSOR
Braxton drives innovation by challenging tradition. Braxton delivers high-quality solutions on time, on budget, and at orders of magnitude less cost than traditional providers. Our services and products support all elements of satellite operations while bringing expertise in systems engineering, cross domain data dissemination, information assurance, cybersecurity, and other relevant competencies. Braxton is proud of our stellar reputation among our customers and industry partners, earned by delivering tailored solutions to match each customer’s needs and budgets. Braxton's products include the hardware and software components necessary for complete satellite ground system implementation, including command and control, scheduling and resource optimization, flight dynamics and mission planning, situational awareness, factory compatibility testing, front-end communications processors, crypto integration and controllers, and spacecraft and ground simulation – everything to outfit an entire Satellite Operations Center. Braxton is a wholly-owned subsidiary of Braxton Science & Technology Group.

NETWORKING CHAT LOBBY SPONSOR
E3/Sentinel understands the complexities of space. With rapidly evolving threats to contest U.S. domain superiority, solutions are needed to quickly adapt to this rapidly changing environment. Our portfolio of Space and Cyber Control, Space and Cyber Superiority tools and rapid access to commercial space data makes us a leading provider of non-kinetic effects as solutions. As a trusted advisor to our clients, E3/Sentinel provides holistic support to transform the space landscape against these threats. As an independent, technology-agnostic services provider, E3/Sentinel provides unbiased assessments on existing and emerging technologies to mitigate operational needs and critical shortfalls; architecture refinement related to supporting resiliency and transformative mission capability; and policy and mission support that aligns to the individual missions, priorities, and needs of our clients, while bridging a collaborative space approach across the broad stakeholder community.

VIDEO SPONSOR
Defense, Space & Security is one of The Boeing Company’s three business units. One of the world’s largest defense contractors, BDS operates in six key markets: Commercial Derivative Aircraft, Military Rotorcraft, Human Space Exploration, Satellites, Autonomous Systems, and Services. BDS also has a significant presence in the fixed-wing strike, weapons and integrated missile system markets.

STAY UP TO DATE ON CHANGES AND TRENDS IN REGULATORY POLICY WITH NDIA’S POLICY BLOG
The NDIA Policy Team monitors, advocates for, and educates government stakeholders on policy matters of importance to the defense industrial base. Help ensure the continued existence of a viable, competitive national technology and industrial base by keeping up with the latest reforms, rules, and regulations. Read more at NDIA.org/PolicyBlog
AN ONLINE COMMUNITY FOR DEFENSE PROFESSIONALS

Enhance your Division and Chapter participation through NDIA Connect

NDIA Connect is the latest member benefit of the National Defense Industrial Association and its Affiliates. All members have automatic and 24/7 access to the platform. If you are not yet a member, we invite you to become one today to gain you the same access to NDIA Connect and all that it enables:

- Connect with like-minded individuals from industry, government, and academia
- Stay up to date on NDIA upcoming events, whitepapers, policies, and much more
- Network with colleagues in your field and any other
- Collaborate on projects and documents of all kinds
- Plan meetings, seminars, webinars, conferences, or any NDIA-related event
- Foster discussion, promote innovation, and grow your network

Log in today at Connect.NDIA.org