



FUTURE INDIRECT FIRES USA

September 24-26, 2019 | Hilton Garden Inn Lawton-Fort Sill, OK



**ADVANCING INDIRECT FIRES - WINNING THE
FUTURE MULTI-DOMAIN BATTLEFIELD**

Welcome to the 2019 Future Indirect Fires Summit!

The **Future Indirect Fires Summit 2019** has been launched as a direct result of the Army Future Command vision and its resulting priorities as they lead the efforts to advance the current level of Military Indirect Fires capabilities. This timely summit will address the two decades long development of technologies and munitions that provide future Military battlefield overmatch for precision fires and the means to maintain competitive advantage over near-peer actors.

With more than a 65% budget increase from FY19 and \$1.35 billion requested budget for FY20, concepts and needs are rapidly transferring into actions and procurements.

FIF 2019 provides a unique and essential platform to share best practices, recommendations for greater collaboration with Military and industry partners and updates on upcoming equipment and program modernizations.

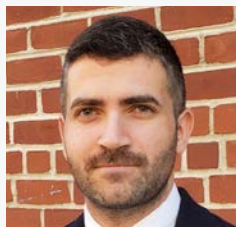
Future Indirect Fires will focus on the following themes:

1. Advancing Long Range Precision Fires
2. Modernization of Existing Munitions and Supporting Technologies
3. Artillery Technological Advancement and Mission Readiness

Briefings, focused groups and panels will address LRPM technologies, MSHORAD and the Indirect Fire Capability, as well as Economic Modernization Kits for Smarter Mortars, Centralized Communications Systems, in addition to live and synthetic training solutions to enhance readiness.

Don't miss the opportunity to take an active part in forging the future of Indirect Fires and connect to the leading principles from our Military Forces, supporting industries and International Allies.

See you there!



A handwritten signature in blue ink, appearing to read 'Shuki Hasson'.

Shuki Hasson
Director, Future Indirect Fires 2019
Institute for Defense and Government Advancement

p.s. -Join our workshop day, which will focus on Long Range Precision Fires and the Army top priorities for FY 2020.



CHAIRPERSON

Lieutenant General (R)
Richard Formica
Vice President, Strategic
Accounts
CALIBRE Systems Inc.

General Richard P. (Dick) Formica is responsible for strengthening CALIBRE's business position in the defense sector to achieve CALIBRE's 2020 Strategic Plan objectives.

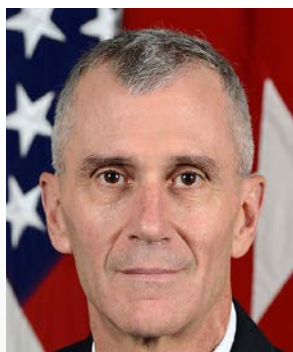
General Formica joined CALIBRE in June 2014 after 36 years of service in the U.S. Army. He is a career field artillery/fire support officer with experience in leadership, operations, and training. He has senior executive level experience in force management and space and missile defense. He served as the Commanding General, Combined Security Transition Command – Afghanistan; Joint Fires and Effects Coordinator/Force Field Artillery Commander in Multi-National Corps – Iraq; Deputy Director Political – Military Affairs (NATO/Europe) on the Joint Staff; and as the Director of Force Management for the U.S. Army.

His final assignment was as the Commanding General, U.S. Army Space and Missile Defense Command and U.S. Strategic Command's Joint Functional Component Command for Integrated Missile Defense.

General Formica received a Bachelor of Science Degree in Law Enforcement from Bryant University in Smithfield, Rhode Island; a Master's Degree in Military Arts and Science from the U.S. Army Command and General Staff College; and a Master's Degree in National Strategic Studies from the National War College.



KEYNOTE SPEAKERS



KEYNOTE SPEAKER

Lieutenant General James F. Pasquarette

Army Deputy Chief of Staff, G-8
US Army

Lieutenant General Pasquarette was commissioned as a second lieutenant armor officer in the U.S. Army upon his graduation from Furman University in 1983. In his first roles, he served in various positions as a staff officer in the Strategy, Plans and Policy Directorate, Office of the Deputy Chief of Staff, G-3, on the Army Staff in Washington, DC, as Chief of Plans, 3rd Infantry Division and operations officer for 3rd Battalion, 69th Armor Regiment and 1st Brigade, 3rd Infantry Division and as a plans officer in 3rd Army and as aide-de-camp to the U.S. Army Forces Command Commander.

His most recent assignments were as Chief of Staff, United States Army Pacific, from July 2013 to August 2014; Deputy Commanding General of U.S. Army Pacific Command at Fort Shafter, Hawaii; and as Commander, U.S. Army Japan from July 2015 to July 2018. He assumed his present duties in August 2018. His awards and decorations include the Distinguished Service Medal, Legion of Merit, Bronze Star, Defense Meritorious Service Medal and Meritorious Service Medal. He has earned Master's degrees from Harvard University, U.S. Army Command and General Staff College, and the Army War College. LTG Pasquarette hails from Florida.



KEYNOTE SPEAKER

Major General Wilson A. Shoffner

Commanding General, Fires Center of Excellence and Fort Sill
US Army

2018 Top Rated Speaker

MG Wilson A. Shoffner graduated from the United States Military Academy in 1988 with a Bachelor of Science degree in International Relations. He holds a Master of Military Art and Science degree from the School of Advanced Military Studies and a Master of Arts degree in National Security and Strategic Studies from the Naval War College.

From 2003-2005, MG Shoffner served as the Deputy Chief of Plans for the NATO Allied Rapid Reaction Corps, then located in Rheindalen, Germany. As a Colonel, he served as the Army's liaison to the U.S. House of Representatives. General Officer assignments include: Deputy Commanding General-Support, 1st Armored Division, Deputy Chief of Staff, G-3/5/7, Army Training and Doctrine Command, and Deputy Chief of Staff-Communications, NATO Resolute Support Mission Afghanistan. He most recently served on the Army Staff in the Pentagon as Director, Army Talent Management Task Force, and Director of Operations, Army Rapid Capabilities Office.

MG Shoffner's awards and decorations include: Defense Superior Service Medal, Legion of Merit (3), Bronze Star Medal (1), Defense Meritorious Service Medal, Meritorious Service Medal (3), Joint Service Commendation Medal, Army Commendation Medal (1), Joint Service Achievement Medal, Army Achievement Medal (2), Southwest Asia Service Medal, Iraq Campaign Medal, GWOT Service Medal, GWOT Expeditionary Medal, Humanitarian Service Medal, Joint Meritorious Unit Award, Valorous Unit Award, Kuwait Liberation Medals, and the Master Parachutist Badge.

SPEAKER FACULTY



Mr. Robert K. Strider
Deputy Director,
Army Hypersonic
Project Office
**Army Hypersonic
Project Office**



**Colonel (P)
John Rafferty**
Director, LRPFCFT,
FCoE
US Army



**Colonel Eamonn
Welch**
Assistant Head Joint
Effects in the Ground
Manoeuvre Capability
branch, Army HQ
British Army



**Colonel Kareem P.
Montague**
Fires Division Chief
Force Development
Army G-8



**Dr. Jennifer A.
Ciezak-Jenkins**
Research Physicist
Deputy Chief Scientist
**Army Research
Laboratory**



Colonel Jeremy Jelly
Director US Army Fire
Support Test
Directorate
US Army



Dr. David E. Johnson
Principal Researcher
RAND Corporation



Dr. David Van Wie
Head, Air and Missile
Defense
**Johns Hopkins
University Applied
Physics Laboratory**



Calvin Johnson
Director of Mission
Command Battle Lab
US Army



**Lieutenant-Colonel
Nicolas Konieczny**
French Liaison Officer
(FA and ADA) to the
Fires Center of
Excellence
French Army



MAJ Keith Woodill
Chief Instructor-in-
Gunnery
**the Royal Canadian
Artillery School**



Justin Wymore
Weapons PNT
Principal Account
Manager
Collins Aerospace



Tony Puckett
Consultant, Fires
Program
AMG General



Jon Milner
Director of Business
Development –
Weapons and
Munitions
**American
Rheinmetall
Defense, Inc**



Bob Bridgford
Senior Manager,
Global Marketing
Army Programs,
Boeing Austin Office
**Boeing Defense,
Space, & Security**



Roy E. Perkins
Land & Armaments
Director, Business
Development
BAE Systems (US)

THE ARMY'S TOP 5 INDIRECT FIRES OBJECTIVES

1

ADVANCING LONG-RANGE PRECISION FIRES



2

UPDATING THE HOWITZER



3

DELIVERING SMART, FAST, INTERCONNECTED WEAPONS



4

COLLABORATING WITH THE NAVY AND AIR FORCE



5

ACHIEVING CROSS-FUNCTIONAL CONNECTIVITY



FOCUS DAY:

Advancing Long Range Precision Fires

September 24th, 2019

0800 REGISTRATION & BREAKFAST

0900 Program Director Remarks & Intro

Shuki Hasson, Director, Future Indirect Fires 2019, [Institute for Defense and Government Advancement](#)

0915 Chairperson's Opening Remarks

LTG (R) Richard Formica, Chairman, [Future Indirect Fires 2019](#)

0945 NETWORKING BREAK

1030 Overview Of The Army Research Laboratory Efforts Towards Future Indirect Fires

- Reviewing latest research fields in support of Artillery advancement
- Addressing the leading priorities of ARL for 2020
- Mapping current collaborations across the Army for precision and suspensions technologies

Dr. Jennifer A. Ciezak-Jenkins, Research Physicist Deputy Chief Scientist, [Army Research Laboratory](#)

1115 Academic Perspective: technologies in support of advancing Future Indirect Fires

Dr. David Van Wie, Head, Air and Missile Defense, [Johns Hopkins University Applied Physics Laboratory](#)

1200 LUNCH

1300 Strategic Review Of Resourcing Efforts And Impact On Advancement Of Future Indirect Fires

LTG James F. Pasquarette, Deputy Chief of Staff, G-8, [United States Army](#)

1345 The Five Year Challenge: Reviewing Howitzer Shells, Rockets And Missiles Guided Multiple Launch Rocket Systems

- Outlining GMLRS and modernization efforts
- Viewing dual-purpose improved conventional munitions and the alternative warhead variants to service area targets
- Expanding adaptability to Multiple Launch Rocket System and High Mobility Artillery Rocket System launchers

Colonel Jeremy Jelly, Director, [US Army Fire Support Test Directorate](#)

1430 Chairperson's Closing Remarks

LTG (R) Richard Formica, Chairman, [Future Indirect Fires 2019](#)

1500 POST-CONFERENCE NETWORKING

MAIN DAY 1:

Modernization of Existing Munitions and Supporting Technologies

September 25th, 2019

0800 REGISTRATION & BREAKFAST

0850 Chairperson's Opening Remarks

LTG (R) Richard Formica, Chairman, **Future Indirect Fires 2019**

0900 Overview Of The Fires Center Of Excellence Programs, Priorities And Vision For The Future

Major General Wilson A. Shoffner, Commanding General, Fires Center of Excellence and Fort Sill, **US Army**

0945 Addressing The Joint Army, Air Force And Navy Efforts To Develop And Advance LRPF Capabilities

Colonel John Rafferty, Director, LRPF CFT, **FCoE, US Army**

1030 NETWORKING BREAK

1115 Guidance, Navigation And Control: Contributions To The Range And Lethality Challenge

- Reviewing APNT threatspace, technologies and solutions
- Addressing precision as a function of GNC and Control Actuation Systems
- Evaluating Precision/Range Tradespace and Precision/Lethality Tradespace

Justin Wymore, Weapons PNT Customer Requirements Manager, **Collins Aerospace**

1200 Analyzing current systems and needed advancement in support of Future Indirect Fires

- Mapping current capabilities and needed modernizations
- Discussing near-future plans and future generation of Indirect Fires

Colonel Montague is the Fires Division Chief in the **Force Development section of the Army G-8**

1300 LUNCH

1400 The Canadian Army Modernization Efforts And Vision For The Future Of Indirect Fires

- Reviewing Canada's leading priorities in advancement of current Artillery systems
- Addressing modernization efforts across the army
- Discussing future cooperation and vision for procurements

MAJ Keith Woodill, Chief Instructor-in-Gunnery, **The Royal Canadian Artillery School**

MAIN DAY 1:

Continued

September 25th, 2019

1445 NETWORKING BREAK

1530 The Latest Programs And Leading Priorities Of The British Army In Face Of Rapid Advancement Of Near-Peer Capabilities

- Discussing the latest near-peer advancements and the necessary counter capabilities
- Providing an over-view of the Army's leading programs for LRPF
- Addressing modernization efforts and cooperation to deliver over-matching capabilities

Colonel Eamonn Welch, Assistant Head Joint Effects in the Ground Manoeuvre Capability branch, Army HQ, **British Army**

1615 Chairperson's Closing Remarks

LTG (R) Richard Formica, Chairman, **Future Indirect Fires 2019**

MAIN DAY 2:

Technological Advancement and Mission Readiness

September 26th, 2019

0800	REGISTRATION & BREAKFAST
0850	Chairperson's Opening Remarks LTG (R) Richard Formica, Chairman, Future Indirect Fires 2019
0900	Addressing Hypersonic weapons for Future Indirect Fires Mr. Robert K. Strider, Deputy Director, Army Hypersonic Project Office, Army Hypersonic Project Office
0945	Exploring MCBL Ongoing Efforts To Support C2 for Future Indirect Fires Advancement <ul style="list-style-type: none">• Evaluating the continuous work with DARPA• Understanding the Adaptive C2 to maximize FIF and other future effects on A2AD missions• Answering the need for Adaptive C2 related to FIF in the MDO environment Calvin S. Johnson, Director of Mission Command Battle Lab, Director of Mission Command Battle Lab
1030	NETWORKING BREAK
1115	With Artillery, War is Made: Field Artillery for the Future. Dr. David E. Johnson, Principal Researcher, RAND Corporation
1230	LUNCH
1315	Multinational Fires in Large Scale Ground Combat Operations/ Multi-Domain Environment: the French Army perspective <ul style="list-style-type: none">• French Army Fires Organization and Road to Modernization• Task Force Wagram: Lessons Learned from Operations (Operation Inherent Resolve/Operation Chammal)• Interoperability with French Army and Multinational Partners Lieutenant-Colonel Nicolas Konieczny, French Liaison Officer (FA and ADA) to the Fires Center of Excellence, French Army
1415	Industry Panel - The cross sector challenges and the vision for proving future solutions Tony Puckett, Consultant, Fires Program, AMG General Bob Bridgford, Senior Manager, Global Marketing, Army Programs, Boeing Austin Office, Boeing Defense, Space, & Security Jon Milner, Director of Business Development - Weapons and Munitions, American Rheinmetall Defense, Inc Roy E. Perkins, Land & Armaments Director, Business Development BAE Systems (US)
1500	Chairperson's Closing Remarks LTG (R) Richard Formica, Chairman, Future Indirect Fires 2019
1530	CLOSE OF SUMMIT

ABOUT OUR LEAD SPONSOR



Collins Aerospace

Collins Aerospace, a unit of United Technologies Corporation (NYSE: UTX), is a leader in technologically advanced and intelligent solutions for the global aerospace and defense industry. Created in 2018 by bringing together UTC Aerospace Systems and Rockwell Collins, Collins Aerospace has the capabilities, comprehensive portfolio and expertise to solve customers' toughest challenges and to meet the demands of a rapidly evolving global market.

Website: <http://www.utcaerospacesystems.com>



SPONSOR FUTURE INDIRECT FIRES 2019

Future Indirect Fires 2019 is a unique opportunity to participate, share knowledge and connect to those who are forging the future, right around the corner from the Fires Center Of Excellence.

8 REASONS FUTURE INDIRECT FIRES 2019 CAN BENEFIT YOU!

- ✈ Generate New Sales Leads
- ✈ Launch New Products Or Services
- ✈ Demonstrate Thought Leadership
- ✈ Enter New Markets
- ✈ Build Customer Loyalty With Leading Commanders
- ✈ Position Your Company Brand
- ✈ Broker New Business Partnerships

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Thank you to everyone who took advantage of the 100 'Early Bird No Cost Passes' issued for the event. These have now all be allocated and pricing will now revert to \$599 for Active U.S Military, Law Enforcement and Government Employees.

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\$1,515

All Access: Main Conference + Focus Day

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One Workshop

\$750

TEAM DISCOUNTS

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