

INTERNATIONAL FIGHTER



18-19 November

INTERNATIONAL FIGHTER CONFERENCE BACKGROUND

The International Fighter Conference (IFC) is the premier global forum for the fighter community. We have been bringing together senior Air Force Officials, Program Managers, air power advocates, and international OEMs for 20 years. Seen as the most intellectually important conference for the combat air community, the forum brings senior officers together to share knowledge, and engage in unbiased debate and discussion. The IFC has never been a large expo. Business leaders use the conference to show thought-leadership and share their strategic vision of the future of fighter aviation.

The 2020 IFC will take place online. Here, more than ever, content is king. Our vision for the world's first digital forum for the fighter community is to split the conference into 8 discrete sessions each dedicated to a specific topic led by an expert moderator.

Our web platform integrates a secure conference feed with advanced matchmaking algorithms to ensure enhanced networking. This takes place through virtual private meeting rooms and the ability to communicate through text, audio, or video conferencing with other delegates. Participation at our virtual conferences is much larger than our physical events with multiple military officers able to attend from each organisation without expensive and disruptive travel. The conference sessions are timed to facilitate global participation with a focus on ensuring participation is possible from all Nations that comprise the Nato alliance. Sessions will be made available on-demand where permission has been granted.

Born out of necessity the online conference provides an opportunity to:

1. Expand the network and reach a much vaster audience – free to attend to the military
2. Be specific and focus on niche topics without alienating sections of the audience
3. Share information with nations who would usually find it difficult to travel and take part
4. Harness data-driven matchmaking to deliver enhanced networking and facilitate 1-on-1 virtual meetings and sidebars

ONLINE CONFERENCE OVERVIEW

EST	GMT	SGT	Wednesday 18 November 2020	Thursday 19 November 2020
0800	1300	1900	Loyal Wingmen and Manned Unmanned Teaming (MUM-T)	UK Tempest programme
0930	1430	2030	<i>Break</i>	
1000	1500	2100	Harnessing the Combat Cloud	Future Combat Air System
1130	1630	2230	<i>Break</i>	
1200	1700	2300	Naval Air Power & Carrier Enabled Power Projection	Adapting the Force for the Peer Fight
1330	1830	0030	<i>Break</i>	
1400	1900	0100	Building the Fighter of the Future: USAF Next Generation Air Dominance	LVC and Combat Air Training
1530	2030	0230	<i>Break</i>	

CONFIRMED SPEAKERS		SESSION MODERATORS	
	Lieutenant General David Nahom Deputy Chief of Staff for Plans and Programs HQ U.S. Air Force		Lt. Gen. Dave Deptula (USAF Retired) Dean, Mitchell Institute of Aerospace Power Studies
	Major General Jean-Pascal Breton Programme Lead FCAS, French Air Force		Lt. Gen. Christopher Bogdan (USAF Retired) Senior Vice President, Booz Allen
	Air Vice Marshal Simon 'Rocky' Rochelle Former CoS CAP, awaiting next appointment, Royal Air Force		Lt. Gen. (Retired) Klaus-Peter Stieglitz Former Commander, German Air Force
	Rear Admiral Gregory 'Hyfi' Harris Director, Air Warfare, Office of the Chief of Naval Operations (OPNAV Ng8), U.S. Navy		AM Sir Chris Harper (RAF Retired) Former Director General of the HQ NATO International Military Staff
	Frank Konieczny SAF/CN Chief Information Technology Officer Office of Deputy CIO, Secretary of the Air Force		Lt. Gen. Jon 'Dog' Davis (USMC Retired) Former Deputy Commandant for Aviation, United States Marine Corps
	Brigadier General Andrea DI PIETRO Head of Department, Planning and Transformation, Italian Air Force		AVM Gavin Turnbull GAICD (RAAF Retired) Former Deputy Chief of Air Force, Royal Australian Air Force
	Brig. Gen. (S) Dale White PEO for Fighters & Advanced Aircraft, Air Force Life Cycle Management Center, USAF		
	Air Cdre incoming Head Combat Air Acquisition Programme, DE&S - UK MoD		
	Commander Christophe Charpentier Former French Navy Air Wing commander, incoming aircraft carrier plan and procurement officer, French Navy		
	Air Commodore Adrian Maso Director General Air Combat Capability, Royal Australian Air Force		
	Dr. Rajesh Naik, Chief Scientist, 711th Human Performance Wing, Air Force Research Laboratory, Air Force Materiel Command, U.S. Air Force		
	Oscar Bladh, Chief Engineer Gripen E., Swedish Defence Materiel Administration, FMV		

EXTANT INVITATIONS (NOT CONFIRMED)			
<i>Please note, invitation process is ongoing</i>			
	General tbc, Incoming Commander, Air Combat Command, USAF		Lieutenant General tbc Incoming Deputy Commandant for Aviation, U.S. Marine Corps
	Vice Admiral Dean Peters, USN Commander, Naval Air Systems Command, U.S. Navy		Lieutenant General Fernando de la Cruz Caravaca Commander, NATO CAOC Torrejon
	Air Vice-Marshal Lincoln S. Taylor Chief of Staff, Capability, HQ Air Command, RAF		Brigadier General Leon-Antonio Maches Michavila Head of Air Systems NAD, Directorate for Programmes, Spanish MoD
	Rear Admiral John S. Lemmon Commander, Naval Air Warfare Center Aircraft Division, U.S. Navy		Colonel Andrii Kramarenko Deputy Chief Of Operations Planning Center, Ukrainian Air Force
	Major General Michel Lalumiere Chief Fighter Capability, Royal Canadian Air Force		Chief, LVC-OT, Air Combat Command, U.S. Air Force

EST	GMT	SGT	Wednesday, 18 November 2020
0800	1300	1900	Loyal Wingmen and Manned Unmanned Teaming (MUM-T)
0930	1430	2030	Break
1000	1500	2100	Harnessing the Combat Cloud
1130	1630	2230	Break
1200	1700	2300	Naval Air Power & Carrier Enabled Power Projection
1330	1830	0030	Break
1400	1900	0100	USAF Next Generation Air Dominance
1530	2030	0230	End

Loyal Wingmen and Manned Unmanned Teaming (MUM-T) | 18 November 2020

Summary:

The Royal Australian Air Force (RAAF) has received the first of three Loyal Wingman aircraft prototypes from Boeing. The unmanned combat drone built by a Boeing-led Australian industry team for the RAAF as part of the Loyal Wingman Advanced Development Program is the first military aircraft to be designed, engineered, and manufactured in Australia in over 50 years.

Similar Programmes are underway in other advanced air forces and yet more still are working on MUM-T concepts of operations, autonomous technologies, and Unmanned Combat Air Vehicles (UCAVs).

Benefits of Attending:

- Gain insight from one of the world's most modern and advanced air forces
- Understand the mile stones and lessons learnt from the RAAF Loyal Wingman Program
- Discuss MUM-T and UCAV challenges and opportunities with participants from both military and industry

Sessions moderated by:



AVM Gavin Turnbull GAICD (RAAF Retired), Former Deputy Chief of Air Force, **Royal Australian Air Force**

AVM Turnbull is a Defence and Aerospace professional and leader with 36 years of Air Force and higher Defence organisational experience, including fifteen years of board and senior executive management. Broadly experienced in Strategy, Strategic risk management, innovation, and advanced technologies in the Australian Defence Force, the Royal Australian Air Force and the United States Airforce, with particular experience in the Defence and Defence Industry sectors.

He was most recently the Deputy Chief of Air Force and Australia's Air Commander. In these roles he led strategy development, directed the personnel management system, prioritised the capability and investment budgets, and drove cultural reform and innovation. He also gained experience as the Director, United States Air and Space Operations Centre and was the Director of Military Strategic Commitments with the Australian Defence Force.

A pilot with more than 3600 flying hours on rotary wing and fast jet aircraft. He completed his basic training in 1984 and spent the next four years flying UH-1H helicopters as a member of No. 9 Squadron. Gavin remains actively engaged in Defence as a senior Air Force Reserve Officer maintaining a TS-PV clearance, conducting airworthiness boards as president and as a member of the Team Australia panel.

Time Zone			Presentation
EST	GMT	SGT	
0800	1300	1900	KEYNOTE: RAAF LOYAL WINGMAN ADVANCED DEVELOPMENT PROGRAM Air Commodore Adrian Maso , Director General Air Combat Capability, Royal Australian Air Force
0830	1330	1930	HUMAN-MACHINE TEAMING & ENABLING TECHNOLOGY Dr. Rajesh Naik , Chief Scientist, 711th Human Performance Wing, Air Force Research Laboratory, Air Force Materiel Command, U.S. Air Force <i>Dr. Rajesh R. Naik, a member of the scientific and professional cadre of senior executives, is the Chief Scientist of the 711th Human Performance Wing of the Air Force Research Laboratory, Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio. He is the primary science and technology adviser to the wing commander. In this position he provides technical vision and strategy for the wing's science and technology plans, coordinates with other Department of Defense organizations, academic and industrial partners.</i>
0900	1400	2000	INDUSTRY PERSPECTIVE: / GENERAL DISCUSSION
0930	1430	2030	SESSION END AND MODERATOR SUMMARY REMARKS

Harnessing the Combat Cloud: Enabling Multidomain Command and Control across the Range of Military Operations | 18 November 2020

Summary:

The combat cloud represents the intellectual construct necessary to unify US Air Force and Department of Defense efforts in pursuit of decision superiority and multidomain command and control (MDC2). However, these goals require that the combat cloud and associated network exhibit critical attributes such as the ability to be self-forming, self-healing, gracefully degradable, and redundant. Under this construct, the ability to collect data and integrate it in an open, adaptive information system will significantly enhance C2 and operational agility for the United States and its allies across the range of military operations (ROMO).

Information must be generated, synthesized, shared, and accessible by all, for all, and through all domains; the combat cloud is the instrument to do so. Similar concepts are developing for the European Future Combat Air System, as well as more generally shared through militaries, Joint Forces, and DoD/MoDs globally. As warfare develops in the information age, the ability to gather, share, and use data is increasingly viewed as the deciding factor in future peer conflict.

Benefits of Attending:

- Gain insight into the architecture required to deliver decision making superiority
- Understand how nations are progressing programs to increase C2 and networked combat power
- Discuss challenges and opportunities with participants from both military and industry


Sessions moderated by:



Lt. Gen. Dave Deptula (USAF Retired), Dean, Mitchell Institute of Aerospace Power Studies

David A. Deptula is the Dean of the Mitchell Institute of Aerospace Power Studies. He transitioned from the U.S. Air Force in 2010 at the rank of Lieutenant General after more than 34 years of service.

He was the principal attack planner for the Desert Storm coalition air campaign (Iraq) in 1991 and was instrumental in the formation and development of the concept later known as "effects-based operations". He is a world-recognized leader and pioneer in conceptualizing, planning, and executing national security operations from humanitarian relief to major regional conflict. Named for 2014 as one of the 100 most influential people in U.S. defense. A visionary-warrior-scholar-doer, whose innovations in planning and strategy have changed the character of modern warfare. A driving force behind positive change.

Time Zone			Presentation
EST	GMT	SGT	
1000	1500	2100	KEYNOTE: USAF JADC2  Lieutenant General David Nahom , Deputy Chief of Staff for Plans and Programs, HQ U.S. Air Force. General Nahom is confirmed to take part at the conference the focus of his presentation is still being finalized. <i>Lt. Gen. David S. Nahom is the Deputy Chief of Staff for Plans and Programs, Headquarters U.S. Air Force, Pentagon, Arlington, Virginia. In support of the Chief of Staff and Secretary of the Air Force, he leads the development and integration of the Air Force resource allocation plan. As the Air Force's senior programmer, he directs and coordinates activities ensuring the Air Force builds and employs effective air, space and cyber capabilities to achieve national defense objectives.</i>
1030	1530	2130	INDUSTRY SESSION
1100	1600	2200	PANEL DISCUSSION and/or complementary national perspective (UK/USA distributed lethality/Eurofighter nation?)
1130	1630	2230	SESSION END AND MODERATOR SUMMARY REMARKS

Summary:

From training requirements, to the variety of missions flown, naval aviation and in particular combat air comes with a number of differences compared to air force counterparts. Not least being the challenges of carrier-based operations.

Benefits of Attending:

- Gain insight into the specialist challenges faced by naval aviation
- Understand the equipment used, operational fleet mix required, and challenges unique to carrier operations
- Discuss challenges and opportunities with participants from both military and industry



Sessions moderated by:



Lt. Gen. Jon 'Dog' Davis (USMC Retired), Former Deputy Commandant for Aviation, United States Marine Corps

After graduating from Allegheny College he was commissioned in 1980, received his wings in 1982, and was selected to fly the AV-8A Harrier. He served in VMA-231 deployed aboard the USS Inchon and served as an instructor in VMAT-203, as Weapons and Tactics Instructor and Operations Officer in VMA-223, as a Royal Air Force (RAF) exchange pilot with 3(F) squadron in Germany, and as a MAWTS-1 instructor (the Marine Corps Aviations Weapons and Tactics Instructor Schoolhouse). From 1998 to 2000, he commanded VMA-223 – a AV-8BII+ squadron. He served as Commanding Officer of MAWTS-1 from 2004 to 2006. From 2006 to 2008, he served as the Deputy Commander – Network Warfare at Fort Meade, Maryland. He commanded the 2nd Marine Aircraft Wing from 2010 to 2012. From 2012 to 2014, he served as the Deputy Commander, United States Cyber Command. His last active duty billet was to serve as the Deputy Commandant for Aviation, Headquarters Marine Corps from 2014 to 2017. He retired in 2017 from the Marine Corps after 37 years active duty service.

In the course of his military career he has flown over 4,300 mishap free hours in primarily the AV-8, but also in the F-5, FA-18, and every type model series tilt-rotor, rotary winged and air-refueler in the USMC inventory plus over 900 hours in general and experimental aviation aircraft.

Time Zone			Presentation
EST	GMT	SGT	
1200	1700	2300	<p>KEYNOTE: U.S. NAVAL AVIATION PROGRAMS</p> <p> Rear Admiral Gregory 'Hyfi' Harris, Director, Air Warfare (OPNAV Ng8), U.S. Navy</p> <p><i>Rear Adm. Gregory Harris is a native of Yarmouth, Maine, and a 1987 graduate of the U. S. Naval Academy. He was designated a naval flight officer in May 1989 and subsequently a naval aviator in May 1993. He has accumulated over 4,300 flight hours, 1,045 arrested landings and has flown over 100 combat missions in direct support of Operations Desert Shield, Desert Storm, Southern Watch, Enduring Freedom, Iraqi Freedom, and Inherent Resolve.</i></p> <p><i>Harris became Director, Air Warfare (Ng8) in August 2019. The Air Warfare Division (Ng8) balances warfighting requirements with available funding to provide an investment strategy intended to reduce Naval and Marine Corps aviation warfighting risks. Ng8 is mainly responsible for building, integrating, and defending yearly Program Objective Memorandums (POMs) for all Naval Aviation Programs.</i></p>
1030	1730	2130	<p>FRENCH CARRIER STRIKE PRESENTATION</p> <p>KEYNOTE: U.S. NAVAL AVIATION PROGRAMS</p> <p> Commander Christophe Charpentier, Outgoing Carrier Air Group Commander, incoming Aircraft Carrier Plan and Procurement Officer, French Navy</p> <p><i>Joining the French Naval Academy in 1996 and qualifying as a fighter pilot in 2002, CDR Christophe Charpentier has amassed a wealth of experience in naval aviation as both an operational and test pilot.</i></p> <p><i>In July 2018, CDR Christophe Charpentier was selected to become Commander of the French carrier Air Wing. Since 2018, he has overseen the regeneration of the Air group on board the French Aircraft Carrier, which underwent a major mid-life refit. The culmination of this effort was the first French CSG deployment in over two years, Mission CLEMENCEAU, a busy and rewarding operational period with the Task Group navigating as far east as the China Sea.</i></p> <p><i>In total he has flown so far 2900 hours, 40 combat missions, conducted 490 carrier deck landings. He is a Knight of the Legion d'honneur and has been awarded 3 Military Crosses for Valour.</i></p>
1100	1800	2200	Panel session or additional national perspective
1130	1830	2230	SESSION END AND MODERATOR SUMMARY REMARKS

USAF Next Generation Air Dominance | 18 November 2020

Summary:

The U.S. Air Force is gearing up to build the aircraft to succeed the F-35. The National Defense Authorization Act has authorized \$955 million for the Air Force Next Generation Air Dominance (NGAD) Program. The new USAF strategy for acquiring next generation fighter aircraft departs radically from the approach used to field today's F-35 and F-22. The new Advanced Aircraft PEO will transform the Next Generation Air Dominance (NGAD) program into the Air Force's Digital Century Series initiative.

The original 1950s-era Century Series was characterized by rapid development, groundbreaking innovation, and sometimes by failure. The original Century Series produced at least 10 new designs that included the first supersonic fighter. Today, the USAF characterizes the Digital Century Series in terms of a "holy trinity" of agile development, open architecture, and digital engineering.

Benefits of Attending:

- Gain insight into the future plans of the world's most modern and advanced air force
- Understand what to expect from 6th Gen. aircraft, and the design and prototype approaches being considered
- Discuss challenges and opportunities with participants from both military and industry



Sessions moderated by:



Lt. Gen. Christopher Bogdan (USAF Retired), Senior Vice President, **Booze Allen**

Chris Bogdan is a leader in Booz Allen's aerospace business, delivering transformational solutions for the services, Department of Defense (DoD), NASA, and commercial clients.

Prior to joining Booz Allen, Chris was 34-year U.S. Air Force officer, retiring as a lieutenant general in 2017. He was an operational pilot, a test pilot who flew more than 30 different aircraft types, and an acquisition program manager. He was the program executive officer for the Air Force KC-46 Tanker Program and the F-35 Joint Strike Fighter Program for the Air Force, U.S. Navy, U.S. Marine Corps, and 11 allied nations.

Time Zone			Presentation
EST	GMT	SGT	
1400	1900	0100	<p>KEYNOTE: USAF NEXT GENERATION AIR DOMINANCE PROGRAMME</p> <p> <u>Tentatively confirmed:</u> Brigadier General. (Select) Dale White, PEO for Fighters & Advanced Aircraft, Air Force Life Cycle Management Center, U.S. Air Force</p> <p><i>Colonel Dale R. White is currently the Program Executive Officer (PEO) for Advanced Aircraft, Air Force Life Cycle Management Center (AFLCMC) Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio. He is responsible for a multi-billion dollar portfolio which includes the development of the Next Generation Air Dominance (NGAD) capability and other highly classified advanced capability development programs. He leads the Department's efforts in molding the continuous delivery pipeline for advanced aircraft and warfighting capabilities, and is charged with mapping acquisition strategies focused on leveraging agile software development, modular and open architecture design, and digital engineering.</i></p> <p><i>Col. Dale R. White, USAF, has been nominated for appointment to the rank of brigadier general. This Summer Brig. Gen. Dale White will become PEO for fighters and advanced aircraft with oversight of program offices for A-10 Thunderbolt II, Attack Systems, F-22 Raptor, F-15 Eagle, F-16 Viper, Next-Generation Air Dominance and Skyborg aircraft. He will also organize, equip and train the F-35 personnel of the joint strike fighter program office.</i></p>
1430	1930	0130	<p>5G, SKYBORG AND OTHER MISSION RELATED CAPABILITIES</p> <p> Frank Konieczny, Chief Technology Officer, Office of Deputy Chief Information Officer, Office of the Secretary of the Air Force</p> <p><i>Frank Konieczny, a Senior Level Executive, is the Air Force Chief Technology Officer, Office of Deputy Chief Information Officer, Office of the Secretary of the Air Force, the Pentagon, Arlington, Virginia. He has primary responsibility to advance the Information Technology landscape of the Air Force. His current focus areas include developing the future technical target baseline, mobility enterprise solutions, data management, identity, Credential and Access Management access/claims management, mesh networks, artificial intelligence/quantum capabilities, cyber and technology innovation pathfinders and advancing the Joint Information Environment.</i></p>
1500	2000	0200	<p>INDUSTRY LEADERS PANEL DISCUSSION: MEETING THE CHALLENGE</p> <p><i>With many nations exploring next generation and future combat air systems industry is exploring the strategies and technologies required to meet this challenge.</i></p> <ul style="list-style-type: none"> • How Digital engineering can enable weapons developers to assess technologies, material configurations to rapidly prototype aircraft designs

			<ul style="list-style-type: none"> • What systems need to surround the platform to deliver future combat air capability? How will open architectures play a role in allowing an air force to procure the best pick & mix technologies and what drawbacks might this have? • What are the inhibiting technologies that need to be advanced and refined in order to make the vision of future combat air a reality? <p>OEMS Leaders from Boeing, LMCO, Textron, Airbus and others to be invited</p>
1600	2030	0230	SESSION END AND MODERATOR SUMMARY REMARKS

EST	GMT	SGT	Thursday, 19 November 2020
0800	1300	1900	UK Tempest programme
0930	1430	2030	<i>Break</i>
1000	1500	2100	Future Combat Air System
1130	1630	2230	<i>Break</i>
1200	1700	2300	Adapting the Force for the Peer Fight
1330	1830	0030	<i>Break</i>
1400	1900	0100	Live, virtual and constructive (LVC) training for Combat Air Forces
1530	2030	0230	<i>End</i>



UK Tempest Programme | 19 November 2020

Summary:

Tempest will be a sixth-generation Combat Aircraft, operating at the cutting edge of technological innovation, and securing the UK's position as a global leader in Combat Air. It is being developed by the RAF Rapid Capabilities Office and UK industry working together, as part of a £2 billion investment from the Ministry of Defence and includes international partners

Benefits of Attending:

- Gain insight and program overview of the UK's 6th Gen Programme
- Understand the technologies involved and the milestones for this cutting edge project
- Discuss challenges and opportunities with participants from both military and industry

Time Zone			Presentation
EST	GMT	SGT	
0800	1300	1900	<p>KEYNOTE: UK TEMPEST PROGRAMME UPDATE & FUTURE MILESTONES</p> <p> Air Cdre incoming, Head Combat Air Acquisition Programme, DE&S - UK MoD</p>
0830	1330	1930	<p>ITALIAN AIR FORCE: WORKING WITH THE UK ON THE DEVELOPMENT OF A 6th GEN AIRCRAFT</p> <p> Brigadier General Andrea DI PIETRO, Chief of the Aerospace Policy and Planning Division, Italian Air Force</p> <p><i>Since 21st August 2019, Brig. Gen. Andrea DI PIETRO (2nd of May 1967) is appointed as the Chief of the "Aerospace Policy and Planning Division" of the Italian Air Force – Staff HQ.</i></p> <ul style="list-style-type: none"> • <i>From 2017 to 2019 he was Deputy Chief of the "Aerospace Policy and Planning Division".</i> • <i>From 2015 to 2017 he was the Chief of the "Planning & Transformation Office" (same Division).</i> • <i>From 2013 to 2015 he was assigned at 6th Wing Ghedi Air Base as the Wing & Base Commander.</i> <p><i>Previously assigned in Rome as the Deputy Chief of the "Strategic Capability Planning Office" within the 3rd Division "Defence Policy and Planning" at the Italian Defence General Staff – MOD, he contributed, from 2009, to the development and supervision of the Italian Medium-Long Term Capabilities & Strategic Planning, and to the Strategic Defence Vision and Military-Design-Model.</i></p> <p><i>Brig. Gen. Andrea DI PIETRO was commissioned in September 1990 after graduating from the Italian Air Force Academy (Pozzuoli, Naples). He is native from the town of Viterbo, close to Rome in Italy. He graduated as an Air Force Pilot at the ENJJFPT (Euro NATO Joint Jet Pilot Training) program in Sheppard AFB, TEXAS-USA, and he had different assignments and commands, all in Combat-Fighter Squadrons, in Italy and in UK (14th Squadron Royal Air Force – Exchange Tour from 1998 to 2001 as a pilot on Tornado GR-4).</i></p> <p><i>Brig. Gen. Andrea DI PIETRO has around 3,100 hours of flight time, almost all on Fast Jet Combat Aircrafts (around 2800 on Tornado) and he is qualified on 10 type of different airplanes (SF260, T37, T38, G-91, Tornado PA-200, Tornado GR-1, Tornado GR-4, Tucano, Hawk, MB-339A).</i></p>
0900	1400	2000	PANEL DISCUSSION and/or Industry Presentation
0930	1430	2030	SESSION END AND MODERATOR SUMMARY REMARKS

Future Combat Air System (FCAS) | 19 November 2020

Summary:

FCAS is the European answer to the evolving threat at the horizon 2040, to ensure operational superiority on the whole spectrum of air missions.

The FCAS concept is not just an aircraft. The FCAS is a network, an architecture of system of systems with new platforms. The system of systems will be generated around a new-generation fighter, which will act and operate with remote sensors or effectors called remote carriers. These platforms will operate in a complex environment with land, sea or other air assets. It will be fully integrated in the combat cloud; and planned to reach initial capability in 2040, and will include in that global system legacy fighters.

Benefits of Attending:


- Gain insight on development in the FCAS program, one of the world's most important future combat air programs
- Understand the mile stones, lessons learnt and future flight path as well as the industry involved
- Discuss FCAS challenges and opportunities with participants from both military and industry

Sessions moderated by:



Lt. Gen. (Retired) Klaus-Peter Stieglitz, Former Commander, **German Air Force**

Lieutenant General Stieglitz joined the Luftwaffe in October 1968 and commenced officer training, followed by pilot training in the USA to become a fighter pilot. During his flying career he has accumulated more than 3,600 flight hours, mostly on combat aircraft (F-104 Starfighter, F-4F Phantom, Mig-29 and Eurofighter/Typhoon). In 1981 - 83 he attended the German Armed Forces Staff College. During his career he held numerous national and international staff and command positions. In his last assignment he was Chief of Staff of the German Air Force from January 2004 to October 2009. Today he is engaged as senior advisor and consultant.

Time Zone			Presentation
EST	GMT	SGT	
1000	1500	2100	<p>FRENCH AIR FORCE FCAS PRESENTATION</p> <ul style="list-style-type: none"> • New generation fighter (NGF) - key capabilities • Remote carrier (RC) - key capabilities • Combat cloud (CC) - key elements <p> Major General Jean-Pascal Breton, Programme Lead FCAS, French Air Force</p> <p><i>Major general Jean-Pascal Breton is a fighter pilot with over 2700 flying hours on Jaguar and Mirage F1. His operational career saw him do a dozen operational detachment on different theaters of operations and almost 200 flight hours on a war mission. In particular, he participated in the first Gulf War and operations in the former Yugoslavia.</i></p> <p><i>Beyond this operational path, the GDA Breton has worked extensively within the branch plan and acquisition of the Air Force staff and the joint forces staff. In 1996, he worked in the Rafale program before its active duty in the Air Force. He was then UAVs project manager for the Air Force, president of the NATO Group Effective Air Commitment Group CG / 2. He also served as Deputy Chief of Plans for the FAF Staff and Commander of the FAF Air Warfare Center and Commander.</i></p> <p><i>Beyond that predominant theme of armament programs, he has held various high-level staff positions, like commander of the Joint Space Command, director of the Center for Strategic Aerospace Studies and Manager for Internal and Institutional Communication with the Air Force Chief of Staff. Since January 2018, he was assigned to co-manage the SCAF project. He has the honor and opportunity to command the 2/33 recce squadron on mirage F1CR et CAZAUX air force base.</i></p>
1030	1530	2130	SPANISH / GERMAN or INDUSTRY PRESENTATION
1100	1600	2200	PANEL DISCUSSION
1130	1630	2230	SESSION END AND MODERATOR SUMMARY REMARKS

Adapting the Force for the Peer Fight | 19 November 2020

Summary:

Many advanced militaries are prioritising planning for the peer-fight. Fighter aircraft are the apex predator and jewel in the crown of national defence. Ensuring these assets are focused on high-end conflict and peer adversaries is paramount.


Suppression/Destruction of Enemy Air Defenses capability (SEAD/DEAD) challenges are becoming increasingly relevant with aircraft upgraded to this capability, most recently the F-35 retrofit which will be applied to both U.S. and foreign F-35s in Lots 14 and 15, and will be completed by August 2022.

Mixed fleet interoperability and using advanced aircraft as a force multiplier. Many nations are acquiring 5th Generation aircraft, but most also continue to operate 4th Generation aircraft as part of a mixed fleet. This presents some communication challenges but also represents a powerful force-multiplier using the advanced capabilities of 5th Gen. aircraft to enhance the 4th Gen. fleet.

Electronic Warfare and advanced capabilities – the air superiority gap closes against peer adversaries perhaps nowhere else as critically as in EW. Long under-invested in post Cold-War many nations have spent the last 5 years rapidly working to address this gap, but there is further work to be done.

Benefits of Attending:

- Understand SEAD and DEAD programmes and their necessity for future conflict
- Gain insight on 4/5 Gen interoperability and integration
- Understand how air forces are modernizing to face the EW challenges and ensure communication interoperability
- Discuss the challenges and opportunities of operating a mixed fleet with participants from both military and industry

Time Zone			Presentation
EST	GMT	SGT	
1200	1700	2300	NATO KEYNOTE
1230	1730	2330	NATIONAL PERSPECTIVE
1300	1800	0000	<p>CONTINUAL UPGRADE TO COUNTER PEER ADVERSARIES</p> <ul style="list-style-type: none"> • Explaining the strategy of continual improvement • How this strategy has influenced the design of the Gripen Es avionics system • The rationale for the design of Gripen E to cope with IADS. <p> Oscar Bladh, Chief Engineer Gripen E., Swedish Defence Materiel Administration, FMV</p>
1330	1830	0030	SESSION END AND MODERATOR SUMMARY REMARKS

live-virtual-constructive (LVC) training for Combat Air Forces | 19 November 2020

Summary:

While US and joint training demonstrations have validated the concept of blended live-virtual-constructive (LVC)-based air combat training, the primary remaining challenge is the integration of virtual and constructive entities with front line aircraft Operational Flight Programs (OTFs). Sophisticated aircraft systems can readily detect what virtual and constructed entities are, in order to successfully 'spoof' these systems and provide a realistic training experience OTFs need to be modified to believe the virtual and constructive elements.

Along with the AFRL and the US Navy's Naval Air Systems Command (NAVAIR), several major defense and aerospace companies, including Northrup Grumman, Collins Aerospace, and Cubic Defense Systems, are working towards the goal to achieve a true blended air combat training LVC solution

The AFRL 711th Human Performance Wing is the lead service agency involved in air combat LVC. This Air Force research and development entity with a focus on training has conducted numerous LVC demonstrations and exercises to advance and promote LVC training as a part of its goal to enhance the service's training and education efforts.

Benefits of Attending:

- Gain insight into the latest development of air combat LVC training
- Understand the limitations as well as the advantages that LVC allows
- Discuss challenges and opportunities with participants from both military and industry

Sessions moderated by:



Air Marshal Sir Chris Harper (RAF Retired), Former Director General, **NATO International Military Staff**

Air Marshal Sir Chris Harper joined the RAF as a pilot in 1976. He has flown numerous aircraft including the Jaguar, the CF-18 and, more recently, the Eurofighter Typhoon. He was involved in active operations over Iraq and in the Balkans and has commanded at all levels of the RAF including, from 2007 to 2009, as AOC No 1 Group. His last 7 years in the RAF saw him working in NATO. From 2009 to 2011, he was deputy commander of NATO's JFC Brunssum; following that, he was the UK's military representative to NATO and the EU. More recently, from 2013 to 2016, he was director general of the HQ NATO International Military Staff.

Sir Chris left the RAF in January 2017 and started a small independent company, CH4C Global Ltd, which offers bespoke consultancy services to organisations working in the international defense and security sector. During early 2018 he worked with the Tallinn-based International Center for Defense and Security to lead an in-depth study of Baltic region air defense. Sir Chris is the Honorary Air Commodore of No 2620 'County of Norfolk' Squadron of the Royal Auxiliary Air Force and is the president of the RAF Flying Clubs Association. He is also a vice president of the Royal International Air Tattoo, a trustee of the Air League and a nonresident senior fellow with the Atlantic Council's Scowcroft Center for Strategy and Security.

Time Zone			Presentation
EST	GMT	SGT	
1400	1900	0100	KEYNOTE:
1430	1930	0130	INDUSTRY PERSPECTIVE:
1500	2000	0200	Panel session or UK presentation
1530	2030	0230	SESSION END AND MODERATOR SUMMARY REMARKS