

## 2019 Airlift/Tanker Association Symposium Seminars

T h u r s d a y	<b>Lunch Seminar: 11:30 AM - 12:30 PM</b>			
	Lunch Seminar 1	Federal Legislative Update on Service Pay and Benefits	Crystal P-Q	78
	<b>Seminar Block 1: 12:55 PM - 1:45 PM</b>			
	Seminar 1	Breaking Barriers: Airlift's First Woman Aircraft Maintenance Officer, Pilot, and Aerial Port Squadron Commander	Crystal Ballroom	1100
	Seminar 2	"MAF Rated Officer Development"	Crystal J	500
	Seminar 3	Capabilities for an evolving landscape: The Arctic, Antarctic and the LC-130	Crystal K-N	330
	Seminar 4	Multi Domain Command and Control (MDC2) in a Contested Environment	Crystal A-C	240
	Seminar 5	Heavy Airlift Wing – The Model of Multinational Airlift Operations	Crystal D-F	240
	<b>Seminar Block 2: 1:55 PM - 2:45 PM</b>			
	Seminar 6	2019-Return to Normandy and Berlin-Your Great Grandfather's Contribution to Modern Airlift	Crystal Ballroom	1100
	Seminar 7	Enlisted Force Hot Topics	Crystal J	500
	Seminar 8	Condition Based Maintenance Plus (CBM+)	Crystal K-N	330
	Seminar 9	Royal Air Force Air Mobility – The Challenges of New Aircraft	Crystal A-C	240
	<b>Seminar Block 3: 2:55 PM - 3:45 PM</b>			
Seminar 10	The Berlin Candy Bomber	Crystal Ballroom	1100	
Seminar 11	VAMRAM – Virtual/Augmented/Mixed Reality for Aircraft Maintenance	Crystal J	500	
Seminar 12	KC-46 Pegasus: A View from the Wing	Crystal K-N	330	
Seminar 13	The role of Air Mobility in a 5th Generation Military Force	Crystal A-C	240	
Seminar 14	Kickin' Assets at Mobility Guardian 2019...Now What?	Crystal D-F	240	
F r i d a y	<b>Seminar Block 4: 10:35 AM - 11:25 AM</b>			
	Seminar 15	Senior Enlisted Leader Panel	Crystal Ballroom	1100
	Seminar 16	Rapid Spacelift: Entering the Era of Mobile Space Access	Crystal J	500
	Seminar 17	Mobility Aircraft Interoperability in a Multi-Domain Environment	Crystal K-N	330
	Seminar 18	MARSRADIO – Global DoD HF System	Crystal A-C	240
	<b>Lunch Seminar: 11:40 AM - 12:40 PM</b>			
	Lunch Seminar 2	Pop Quiz: Seven Money Questions, Do You Have the Answers?	Crystal P-Q	78
	<b>Seminar Block 5: 12:55 PM - 1:45 PM</b>			
	Seminar 19	#InnovativeAF	Crystal Ballroom	1100
	Seminar 20	Future Space Mobility Capabilities, and Commercial Satellite Connectivity for Airlift	Crystal J	500
	Seminar 21	Threats, Needs, and Force-Structure: The Future of the Air Mobility Fleet in the Military Worlds of Today and Tomorrow	Crystal K-N	330
Seminar 22	Op DELIBERATE RESOLVE & the Joint Training Environment	Crystal A-C	240	
Seminar 23	Agile Combat Employment: A New Requirement for the MAF	Crystal D-F	240	

## **Lunch Seminar 1: Federal Legislative Update on Service Pay and Benefits**

*(Pick up food in the exhibit hall for this seminar. Seating is limited)*

An update on current legislation working on Capitol Hill in regards to Service pay and benefit programs. Also provides an assessment on the environment in government for support of Service pay and benefit issues. And the status of the DOD budget concerning pay and benefit programs. Presenter: Shane Ostrom, CFP® , LtCol USAF (Ret), Program Director for Finance and Benefits, Military Officers Association of America (MOAA).

## **Seminar 1: Breaking Barriers: Airlift's First Woman Aircraft Maintenance Officer, Pilot, and Aerial Port Squadron Commander**

Lt Col Kathy LaSauce presents her experiences as airlift's first woman aircraft maintenance officer, C-141 pilot, Special Air Missions (Presidential support) pilot, and aerial port squadron commander. In 1972, Kathy LaSauce became the airlift's first female aircraft maintenance officer. Later at Norton AFB, she qualified as the first woman C-141 aircraft commander, instructor pilot, and flight examiner pilot. Lt Col LaSauce became the first woman Special Airlift Mission (SAM) pilot and also served as the first woman to command an Aerial Port Squadron.

## **Seminar 2: MAF Rated Officer Development--AMC/A1**

This briefing is focused toward active duty rated officer force development, but anyone is welcome as similar milestones and general principles of officer development will be discussed. The audience will be familiarized with the commander's intent behind new policies, programs, and opportunities available to an officer at different points throughout their career. The briefing will touch on officer career progression, milestones and lessons learned with respect to MAF force development.

## **Seminar 3: Capabilities for an Evolving Landscape: The Arctic, Antarctic and the LC-130**

A brief discussion of how the LC130 ski-equipped aircraft is utilized as an asset to strategically project force in polar environments while also providing a critical lifeline for scientific research in the field.

## **Seminar 4: Multi Domain Command and Control (MDC2) in a Contested Environment**

This will be an interactive seminar with the 618th AOC Commander first covering the AOC's current C2 construct and processes while further discussing recent associated changes. We will highlight past missions by detailing their successes, lessons learned, and unit contributions. Next, the AOC's vision for multi-domain C2 in contested environments will be presented along with the associated challenges. Additionally, we will outline the efforts between TRANSCOM, AMC/A3 and the 618th AOC to build a sustainable approach for aircrew (and direct supporting units). Topics for discussion may include; Mission Command, Mission Type Orders, Distributed Operations, etc. Finally, the audience will have an opportunity to ask questions and provide feedback to the 618th AOC leadership.

## **Seminar 5: Heavy Airlift Wing – The Model of Multinational Airlift Operations**

The Heavy Airlift Wing is a multinational unit comprised of 10 NATO and 2 Partner for Peace nations that operate 3 C-17s worldwide in support of NATO, EU, UN, and national requirements. The unit celebrates 10 years of operations in 2019. The seminar will feature the latest promotional video, an overview of the multinational Strategic Airlift Capability (SAC) Program, and a couple specific case studies of humanitarian aid operation in the Caribbean in 2017 and its first combat airdrop in support of Swedish Special Operations Forces in Mali in 2018. Additionally, the flexibility of a lean organization will be highlighted throughout the presentation in order to show the benefits of a flat command structure and how this leads to increased flexibility in operations.

## **Seminar 6: 2019-Return to Normandy and Berlin-Your Great Grandfather's Contribution to Modern Airlift**

We formed an organization named the D-DAY squadron to represent the United States in the commemoration of the 75th anniversary of D-DAY, in Normandy France, on 6 June 2019. The D-DAY squadron flew fifteen historic C-47/DC-3 aircraft across the North Atlantic to participate in those commemorations. Several of the aircraft were actual D-DAY veterans along with some still surviving pilots and paratroopers. Multiple sorties were flown dropping paratroops on the original drop zones as well as ceremonial formation flights on 6 June. In addition, we flew in Commemoration of the 70th anniversary of the Berlin Airlift and had Col Gale Halvorson and his family as our guest during the event. This story is being told to demonstrate the historical significance of the development of Airlift and Airlift Aircraft in Air Mobility Command and for our nation.

## **Seminar 7: Enlisted Force Hot Topics--AMC/A1**

The Enlisted Force "Hot Topic" brief discusses the hot topics impacting our active duty enlisted force. The brief will highlight the deliberate transformation that has occurred over the past year and how the Air Force will continue to develop our total force. Furthermore, this brief will provide insight on expectations and benefits to the enlisted corps. The Enlisted Force Hot Topic briefing will include discussions on the Enlisted Base of Preference (BOP) Program, Join Spouse Assignments, Indefinite Reenlistments, Adjustment to Mandatory "Referral" Reports, Elimination of SNCO Promotion Testing, Professional Military Education (EPME), Sister-Service Joint EPME and Developmental Special Duties

## **Seminar 8: Condition Based Maintenance Plus (CBM+)--AMC/A4**

CBM+ is a holistic methodology that utilizes data to enable the Logistics enterprise to make proactive, data driven decisions. CBM+ is not a single product or algorithm, but a shift in how the Air Force leverages the data we have always generated to improve Aircraft Availability, Mission Readiness, and Mission Effectiveness.

## **Seminar 9: Royal Air Force Air Mobility – The Challenges of New Aircraft.**

The presentation will initially describe the size and capability of the Royal Air Force Air Mobility Force. It will then go on to share some of the lessons and challenges identified by the Royal Air Force with the introduction of new and more capable aircraft. Furthermore, it will look at challenges faced with IT/IM, digitisation optimisation and innovation as we build a Royal Air Force for the 21st Century. The presentation should be particularly interesting to those involved in the KC-46 programme learning from the UK's experience with the Voyager tanker/transport aircraft.

## **Seminar 10: The Berlin Candy Bomber**

When the Soviet Union cut off Berlin from the outside world, all supplies, food, fuel, industrial goods and raw materials had to be flown in. Operation Vittles began on 26 June, 1948, and continued for more than a year. Every three minutes an Allied plane landed in the blockaded city of Berlin. The Allies began feeding a former enemy and the animosity that previously existed between nations began to melt. By the end of the blockade on 30 September 1949, Allied planes had delivered 2.3 million tons of supplies in more than 278,000 flights that had been part of this exceptional act of humanity by countless heroes, working incessantly to save human lives and preserve freedom.

Operation Little Vittles began when Col Halvorsen started dropping candy to the children of Berlin during his flights and by the end of the airlift American pilots had dropped over 20 tons of goodies from the sky and delivered 3 tons on the ground! Little Vittles was really about bringing hope to a beleaguered people. It influenced the course of German-American relations from that point forward, and averted another world conflict. Come and listen to the adventures of Col Halvorsen, "The Berlin Candy Bomber" and have the opportunity to ask him questions about his experiences.

## **Seminar 11: VAMRAM – Virtual/Augmented/Mixed Reality for Aircraft Maintenance**

Virtual / Augmented / Mixed Reality for Aircraft Maintenance (VAMRAM) aims to harness the power of modern, digital-age technologies to revolutionize aircraft maintenance. VAMRAM is an Air Force Research Laboratory (AFRL) team working to rapidly mature, integrate, and transition these advanced "digital age" technologies for both aircraft maintenance training and aircraft maintenance execution applications. In this seminar, members of the AFRL VAMRAM team will introduce participants to the VAMRAM vision, enabling technologies, and development/implementation challenges and conduct live demonstrations of several V/A/MR applications.

## **Seminar 12: KC-46 Pegasus: A View from the Wing**

All military planners understand that no plan survives first contact. The United States Air Force, Air Mobility Command, and the 22nd Air Refueling Wing worked tirelessly to develop plans for bringing on the KC-46A Pegasus. However, upon delivery of the first aircraft to McConnell Air Force Base, it became apparent that even the best and most thought out plans require flexibility to achieve success. During this presentation, the 22nd Air Refueling Wing leadership will discuss the KC-46 Rollout and Sequence of Events from the operators perspective, maintenance challenges, and innovations from the airmen that have driven success as the aircraft

## **Seminar 13: The Role of Air Mobility in a 5th Generation Military Force**

The seminar will focus on the challenges of keeping the Air Mobility of the Royal Australian Air Force capable of operating in a modern battlefield. Risks and opportunities will be presented to stimulate discussion on the evolving role of air mobility to assist future decision makers.

## **Seminar 14: Kickin' Assets at Mobility Guarding 2019...Now What?--AMC/A3Y**

Mobility Guardian 2019 executed 8-28 Sep 2019. 30 countries descended on Fairchild AFB, WA and three FOLs giving 2500+ international, total force MAF airmen superb full spectrum readiness focused training. From JFE ops to aeromedical evacuation, and airfield opening to interoperability proofs of concept, AMC's premiere Tier 1 exercise again allowed the MAF to train in all facets of Rapid Global Mobility. Key lessons were gleaned and will be shared to keep the MAF and international partners moving forward to prep for tomorrow's contingency. Future MGs need to adapt to both likely world situations as well as the changing FSR exercise/training environs. MG "Next" is still being developed, but will better integrate wing FSR efforts and existing JEP/JNTC results for an effective, efficient, relevant MAF training event.

## **Seminar 15: Senior Enlisted Leader Panel--AMC/CCC**

Focus on how AMC supports the NDS, especially in relation to global scale operations supporting the Indo Pacific and TRANSCOM.

## **Seminar 16: Rapid Spacelift: Entering the Era of Mobile Space Access**

In this presentation the current status of rapid spacelift will be introduced through the use of the air-launched Launcher One mobile launch platform – a launch system that launches a rocket from a modified 747-400. The near future will usher in the use of spacelift systems of this variety that enable the agility and responsiveness needed by Combatant Commanders to replenish, reconstitute and refresh their space capabilities, or provide space capabilities on tactically relevant timelines. The mobility community is essential to both proliferating and enabling a robust on-demand space asset delivery capability. VOX Space will introduce its vision on current and future states of this capability as well as highlighting the impact that the mobility community will play in assured space access.

## **Seminar 17: Mobility Aircraft Interoperability in a Multi-Domain Environment**

Multi-Domain Operations (MDO) requires increased warfighter speed in data to decision to operate inside the adversary's Observe, Orient, Decide, and Act (OODA) loop. Mobility aircraft platforms will need to interoperate in a flexible Command and Control (C2) architecture where decision making is distributed across the battlespace. Platform datalink communications, machine-to-machine information exchange, and automated/autonomous decision aids are key enablers for realizing this next generation distributed MDO architecture.

Lockheed Martin is developing and maturing foundational technology through flight test demonstrations to realize MDO sooner than thought possible. This session will provide an overview of Lockheed Martin's vision for MDO using Open Systems Architecture (OSA) and highlight our flight test demonstration history. Additionally, we will demonstrate how our Flexible Autonomy Framework and innovative approach to System of System (SoS) interface adaptation provide the warfighter robust MDO capability, while also reducing "vendor lock" concerns.

## **Seminar 18: MARSRADIO – Global DoD HF System**

MARSRADIO is a DoD authorized HF communication system for aircraft and ground units for phone patch, weather information, radio / SELCAL checks and messaging. MARSRADIO is a backup to other systems like HF Global.

## **Lunch Seminar 2: Pop Quiz: Seven Money Questions, Do You Have the Answers? - They should be on the tip of your tongue!**

*(Pick up food in the exhibit hall for this seminar. Seating is limited)*

How does what you know about your own finances stack up? No pressure, but if you ace this quiz you're probably already on the road to financial security. JJ Montanaro, a CERTIFIED FINANCIAL PLANNER with USAA will test you on a wide variety of financial topics from saving and investing to taxes and insurance. You'll leave this session with an "A" or the homework necessary to get you there.

## **Seminar 19: #InnovativeAF**

Dr Roper Seminar *(Pending Abstract Information)*

## **Seminar 20: Future Space Mobility Capabilities, and Commercial Satellite Connectivity for Airlift**

SpaceX is currently developing new technologies enabling expanded and enhanced U.S. mobility capabilities. The first of these is the Starlink low earth orbit (LEO) satellite communication service, a connectivity solution for air mobility aircraft and support vehicles. SpaceX will discuss the Starlink capability, deployment plans, and demonstrations including on aircraft in the Global Lightning project. In addition, SpaceX will provide an overview of the Starship launch vehicle currently under development, focusing on capabilities most relevant to air mobility. This fully reusable launch vehicle is primarily designed to carry humans and cargo to Mars and the Moon, but will also have many other applications. Of particular interest, Starship will be able to lift substantial payload capacity deliver payloads and personnel anywhere on Earth in less than one hour with a point-to-point launch capability.

## **Seminar 21: Threats, Needs, and Force-Structure: The Future of the Air Mobility Fleet in the Military Worlds of Today and Tomorrow**

This panel will discuss the implications of current and near-future operational threats and requirements for the modernization of air mobility forces. Though still vague, official or “orthodox” modernization planning generally prioritizes continued equipping of the air refueling force with repurposed airliners and on modernizing the long-range/high-capacity “strategic,” airlift force with an advanced-technology aircraft of broad operational capabilities. Planning for a new medium-range/medium-capacity “theater” airlifter, is even more vague and largely mooted by continued acquisition of the C-130. Based on their assessments, however, the two panelists will suggest that these orthodox visions of air mobility modernization likely will produce a fleet no more suited to the evolving logistical and operational needs of land, air, and Joint commanders than the current force. Further, they will suggest that acquiring a more operationally and logistically useful fleet likely will be cost-neutral in relation to the fiscal implications of current planning.

## **Seminar 22: Op DELIBERATE RESOLVE & the Joint Training Environment--621 MSOS**

Maj Thomas Weber, deployed AMLO to CJTF-OIR, supported the EXFIL of a Syrian airfield for almost three months. Likewise, Maj Thomas Leyden augmented a second austere, dirt LZ in Syria for almost 4 months, serving as AMC’s most forward echelon ensuring safe air mobility operations during Op DELIBERATE RESOLVE. Anecdotes from their experience will demonstrate how important it is for AMC to continue to develop competencies in Semi-Prepared Operations. These operations are inherently risky. A C-17 did become stuck at Kobani LZ and shut down the runway for considerable lengths of time. More recently, a CONUS training event resulted in a C-17 being stuck at a dirt LZ. AMC owes training platforms to their aircrews to ensure they have a chance to take these risks in training before heading to combat environments. Recently, the C-130 community mandated SPRO operations as part of their continuation training tables. Air Mobility Liaison Officers across the entire joint force have ground truth knowledge on the health of the CONUS and OCONUS dirt LZs, oftentimes located on a joint service’s land. This presentation will provide a CONUS-wide status of these training areas and LZs and offer suggestions on what needs to be done to sustain them.

## **Seminar 23: Agile Combat Employment: A New Requirement for the MAF**

The 2018 National Defense Strategy requires DoD to rethink how it deploys, employs, sustains and redeploys forces. The seminar seeks to provide insight into how mobility forces may be employed in the future (at the unclassified level), and review ongoing initiatives within the DoD, USAF, and geographic combatant commands to support operations in contested and degraded environments using agile combat employment concepts.

*Current as of: 13 Oct 2019*