



ARSAG 2018

ARSAG INTERNATIONAL
Aerial Refueling Systems Advisory Group
CELEBRATING FORTY YEARS

24 – 26 April

Tucson, Arizona

DRAFT

Tuesday, 24 April

0700 **Registration, Check-In, Badging** *Ballroom Foyer*

0700 **Exhibits Grand Opening** *Turquoise Ballroom*
Coffee, Networking

0800 **Plenary Session Convenes** *Presidio Ballroom*

0800 Introductions

Lieutenant General John B. Sams, Jr. USAF, ret
ARSAG Chairman / Chief Executive Officer

0805 **Guest Speaker**

Lieutenant General Giovanni K. Tuck
Commander, 18th Air Force

International Military Status Reports

0845 Introductions
NATO IS/DI
NATO AIRCOM
EDA
JAPCC/NATO AARWG
MCCE
Australia
Canada
France
Germany

Moderator: Laurent Donnet, SkyTech

Donald Turnbull

Sqn Ldr Johnathan Berry

Dion Polman

Lt Col Edwin Markie

Lt Col Gian Luca D'Angelo

Gp Capt Steve Pesce

Maj Brian Crosier

LtC Thilo Scholz

1000 Coffee, Exhibits & Networking *Turquoise Ballroom*

1030 Plenary Session Reconvenes *Presidio Ballroom*

Israel
Italy
Japan
The Netherlands
Saudi Arabia
Spain
Turkey
United Arab Emirates
United Kingdom
Contract Refueling

Rami Tabac

Col Gieseppi Addesa

Maj Koji "Esper" Yokoyama

Maj Andy van Alphen

Tom Swiderek

For Sunday, 22 April and Monday, 23 April Schedules:
See Associated Key Meetings



Tuesday, 26 April, continued

1155 **Guest Speaker**

Brigadier General Francesco Saverio Agresti
EATC Deputy Commander (DCOM)

1210 **Luncheon** *Turquoise Ballroom*

Guest Speaker

Ronald Johnston

Chief Test Pilot, KC-46, The Boeing Company
Lieutenant General John B. Sams, Jr. USAF, ret
ARSAG Chairman / Chief Executive Officer

**ARSAG Award for Exceptional Service
to Aerial Refueling**

1340 Plenary Session Reconvenes, *Presidio Ballroom*

1340 Introductions

Lieutenant General John B. Sams, Jr. USAF, ret
ARSAG Chairman / Chief Executive Officer

1345 **Guest Speaker**

Lieutenant General Maryanne Miller, USAF/RE

Military Status Reports

1410 Introductions

Moderator: Lt Col Ed Schierberl, AFRC

USN/USMC Updated

Farhad Choudhury, NAVAIR, JSB Chair

US ARMY

USAF/AMC

AFSOC

1450 Q & A

1500 Coffee, Exhibits & Networking *Turquoise Ballroom*

1530 Plenary Session Reconvenes *Presidio Ballroom*

Safety Reports

1530 US Military Safety Reports

Moderator: Lt Col Ed Schierberl, AFRC

HH-60 Basket Oscillation

US Air Force

US Navy

US Army

US Marine Corps

International

1605 Q & A

1610 **ARSAG, Celebrating 40 Years**

Tom Swiderek, Omega Air

1620 **ARSAG Founders Award Presentation**

Lieutenant General John B. Sams, Jr. USAF, ret
ARSAG Chairman / Chief Executive Officer
Dexter H. Kalt, ARSAG Executive Director

**Reports from ARSAG Workshop / Joint Standardization
Board (JSB) for Aerial Refueling Systems**

1630 Introductions

Farhad Choudhury, NAVAIR, JSB Chair

1635 Working Group Reports

Working Group Leads

Eric Pepple, AFLCMC/WKC

Thomas Cavallaro, NAVAIR

John Luu, AFLCMC/WKE

Derek Ferwerda, NAVAIR

Gregory Twyford, Boeing

Jacob Benscoter, CASS

Steve McLaughlin, NAVAIR

Harry Slusher, Boeing

1655 Q & A

1705 Plenary Session Adjourn for the Day

1800 **Exhibitors Reception** *Turquoise Ballroom*



Wednesday, 25 April

0700 **Exhibits Re-Open** *Turquoise Ballroom*
Coffee, Networking

0800 Plenary Session Reconvenes *Presidio Ballroom*

0800 Introduction

Lieutenant General John B. Sams, Jr.
USAF ret., ARSAG Chairman / Chief Executive Officer

0800 **Guest Speaker**

Lieutenant General John F. Thompson
Commander, Space and Missile Systems Center

Operations Panel

0830 Introductions

Chair/Moderator, Col Greg Gilmour
Commander, 315 AW

0833 Tanker Planning Optimization

William Spacy, Office of the Deputy
Assistant Secretary of the Air Force (SAF/ EN)

0841 Optimizing Aerial Refueling Airspeeds for CORONET Missions

William Spacy, Office of the Deputy
Assistant Secretary of the Air Force (SAF/ EN)

0849 A-330 MRTT Operation in SESAR/NextGen

Loli Valer, Airbus

0857 RAAF Operations in the Middle East

Group Captain Steve Pesce, RAAF, OC 86 WG

0905 Aerial Refueling Optimization & Planning System

Eric Lepchenske, AASI

0913 MC-130 AFSOC CAPES Brief

MSgt Michael Mueller, ACC

0921 Q & A

0925 **Guest Speaker**

Major General Scott Zobrist
Commander, 9th Air Force

0955 Coffee, Exhibits & Networking *Turquoise Ballroom*

1025 Plenary Session Reconvenes *Presidio Ballroom*

Senior Military Panel Discussion

1025

Moderator, **Lieutenant General John B. Sams, Jr.**
USAF, ret., ARSAG Chairman / Chief Executive Officer

Major General Scott Zobrist
Commander, 9th Air Force

AIRCDRE Bill Kourelakos
RAAF, Commander, Air Mobility Grp.

Brigadier General Francesco Saverio Agresti
EATC Deputy Commander (DCOM)

1115 Q & A

Interoperability Panel

1125 Introductions

Lt Col Edwin Markie, JAPCC

1130 Certification Specifications

Maj Kees Verburg, RNLAFF Flight Test Center

1140 A-330 Synergies

Grp Capt Steve Pesce, RAAF, OC 86 WG

1150 Interoperability in Training

Lt Col Timothy Mach, Dep. CC 100th OG, RAF Mildenhall

1200 KDC-10 OIR Operations

Maj Jon O'Dell, USAF, RNLAFF 334 Squadron

1210 Q & A

1215 **Luncheon** *Turquoise Ballroom*

Guest Speaker

ARSAG Award for Exceptional Service to ARSAG

Lieutenant General John B. Sams, Jr.
USAF ret., ARSAG Chairman / Chief Executive Officer

1345 Plenary Session Re-Convenes *Presidio Ballroom*



Training Panel

- 1345 Introductions
- 1350 KC-46 Program Update
- 1400 KC-46 Training Status Update
- 1410 509th Weapons School Update
- 1420 KC-46 Aircrew Training Systems Update
- 1430 Q & A
- 1435 Coffee, Exhibits & Networking *Turquoise Ballroom*
- 1505 Plenary Session Reconvenes *Presidio Ballroom*

Moderator: Lt Col Al White, 54 ARS/CC
Col John Newberry, AFLCMC/WKC
Lt Col Dan Ruttenber, 56 ARS/CC
Maj Will Down, 509 ARS/DOA
Bruce LaCharite, FlightSafety

System Design Panel

- 1505 Opening Remarks & Session Agenda
- 1510 Aerial Refueling Standards
- 1520 Automatic Air-to-Air Refueling
- 1540 KC-390 Update
- 1555 Q & A

Chair/Moderator: Tom Cavallaro, NAVAIR
Mark Burket, AFLCLC/EZFA
Juan Cabrera, Airbus
Bruce Bunin, Embraer

Reliability and Maintainability Panel

- 1600 Introductions
- 1605 KC-135R/T and KC-10A Aerial Refueling System Status Report
- 1620 ARC-190 V9 update and HF Modernization Update
- 1630 KC-46 Maintenance Trainer
- 1640 Self Protection for Tankers
- 1650 Q & A
- 1655 Adjourn for the day

Chair/Moderator, Gregory Twyford, The Boeing Company
Col Matthew Muha,
Military Deputy Director for Tankers
Ron Broden, Rockwell Collins
Adrien Larsen, AFLCMC/WKC
Roberto Scotto di Vettimo, Elettronica SpA

Thursday, 26 April

- 0700 **Exhibits Re-Open** *Turquoise Ballroom*
Coffee, Networking

- 0800 Plenary Session Reconvenes *Presidio Ballroom*

- 0800 Introduction

Lieutenant General John B. Sams, Jr. USAF, ret
ARSAG Chairman / Chief Executive Officer

- 0800 **Guest Speaker**

AIRCDRE Bill Kourelakos
RAAF, Commander, Air Mobility Grp.

Advanced Concepts Panel

- 0830 Introductions
- 0835 Air Force Research Lab Advanced Aerial Refueling Research
- 0850 Integrated Precision Refueling On-Board Enhancement
- 0905 Q & A
- 0910 **Guest Speaker**
- 0940 Exhibits, Coffee, Networking
- 1020 Plenary Session Reconvenes

Chair/Moderator, Farhad Choudhury, NAVAIR
Dan Schreiter, AFRL
James "Buddy" Denham – NAVAIR

TBA



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Industry Panel

- 1020 Introductions Chair/Moderator, Tom Swiderek, Omega Air
- 1025 RAF Voyager Anniversary Geoff Winterbottom, Airtanker
Mike Soul, Airtanker
- 1035 HF Shunt Antennas Benefits for KC-135 & C-130 Aircraft Richard Hayden, ASB Avionics
- 1045 Auto Re-Router and the Tanker Mission Joe Diner, Rockwell Collins
- 1055 FAA Landing Allowances with HUD and Enhanced Vision Systems Installed Bobby Fowler, Rockwell Collins
- 1105 Aerial Refueling Services and Funding Solutions Laurent Donnet, SkyTech
- 1115 AAR Read Across Clearance Process Jorge de la Fuente, Airbus
- 1125 KC-130 Pod overhaul and Upgrade Program Mike Bandak, Northstar
- 1135 Q & A

Studies & Analysis Panel

- 1140 Introductions Chair/Moderator, Tom Swiderek, Omega Air
- 1145 Aerial Refueling Model (ARM) Overview & Demonstration James Donovan, AMC/A9
- 1155 Delivering Aerial Refueling Offload Solutions to the War Fighter Jeff Baker, Eaton Aerospace
- 1210 Q & A

Test & Evaluation Panel, *Including Clearance Testing*

- 1215 Introductions Chair/Moderator, Christopher Nickell, NAVAIR
- 1220 Airbus Flight Test Activities Jorge de la Fuente, Airbus
- 1235 Good Flow: E-2D Aerial Refueling LCDR Joe Breeden, USN
Nathan Atkinson, NGC
- 1250 Air Refueling Test and Evaluation - An Essential Enabler for Air Power in the Western Pacific Greg Pasfield, QinetiQ Australia
- 1305 Q & A
- 1310 Plenary Session Wrap-Up, Adjourn

1400 Focus Topic Seminars

1400 - Automated Aerial Refueling – Modeling and Simulation

Moderator: Steve McLaughlin, NAVAIR

Topics:

- 1) Architecture and Physics of model
- 2) Overall Model performance, Validation and Verification efforts
- 3) Applications of Model
- 4) Areas for collaboration?

- 1400 Analytical Mechanics Associates
- 1420 Mide Inc.
- 1440 NAVAIR/CTSI - Modeling& Tanker Based Stabilization
- 1510 Cobham
- 1530 Boeing
- 1550 Open Discussion
- 1600 Adjourn

1400 Aerial Refueling Operations

Moderators: Col James (Slim) Morgan, USAF, ret.
Lt Col Mark Hasara, USAF ret.

- 1600 Adjourn



ASSOCIATED KEY MEETINGS

Sunday, 22 April

0800 – 1400 **NATO Air-to-Air Refuelling Working Group** *Presidio 1 & 2*
 (Attendance by invitation)
 Moderator: Lt Col Edwin Markie, USAF/JAPCC

Monday, 23 April

0700 **Registration, Check-In, Badging Open**

ARSAG Workshop / JSB Meeting *Coronado 1*

0800	Introductions	Lt Gen John B. Sams, Jr., USAF ret. ARSAG Chairman / Chief Executive Officer
0815	Meeting Minutes from Feb 2018 Meeting Agenda	Farhad Choudhury, NAVAIR, JSB Chair
0830	ARSAG Workshop Review	Dexter H. Kalt, ARSAG Executive Director
0845	JAPCC/NATO Report	Lt Col Edwin Markie, JAPCC
0900	Working Group In-Briefs	Working Group Leads
	WG 1 Eric Pepple, AFLCMC/WKE	WG 4 Greg Twyford, Boeing
	WG 2 Tom Cavallaro, NAVAIR	WG 5 Jacob Benscoter, CASS
	WG 3 John Luu, AFLCMC/WKE	WG 5A Steve McLaughlin, NAVAIR
		WG 6 Harry Slusher, Boeing
0915	Working Groups Convene	
1200	Lunch	
1300	Working Groups Re-Convene	
1545	Working Group Out-Briefs	Working Group Leads
1625	Wrap-Up	Dexter H. Kalt, ARSAG Executive Director
1630	Adjourn	

NOTE: *ARSAG Workshops / JSB Meetings are open to military/government and industry representatives of NATO nations and Australia.*

Briefers Meeting *Presidio Ballroom*

Participants: **All Presenters and Panel Chairs**

1715 – 1730 **Instructions / Speakers' Information Dissemination Form**

1730 – 1830 **All Presenters Submit Electronic Copies of Briefings to Audio Visual Station**

Wednesday, 25 April

Steering Group Meeting *Agave Meeting Room*

1730 – 1830 **Steering Group Members**