JIFX 23-3
Experiment Coordination Calls
Event Dates: 1 – 5 May 2023
# Call Agenda – Call #1

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<td>JIFX Team</td>
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Call Agenda – Call #2

Event Information

Event Safety

Airspace Safety

Event Network

COPERS
Call Agenda – Call #3

Experiment Introductions

Q&A
Call Agenda – Call #3

- Event Schedule
- Final Logistics
- Q&A
Dr. Mike Richardson, JIFX Director
Ashley Hobson, Event Operations
Jonathan Coon, Data Management
Aurelio Monarrez, Air Operations
Joseph Lukefahr, Tech & Network Management
Dirk Hale, Camp Roberts Facilities
WHAT IS JIFX?

Mission Statement:
The JIFX team leads experimentation in alternative methods to enable rapid technological development by cultivating a community of interest and hosting broadly scoped quarterly collaborative field events which enable DoD, US government, and allied stakeholders to identify, influence, and accelerate early-stage technology development that address national and collective security challenges.

JIFX is an experiment on the methods to enable rapid technological development.

JIFX provides researchers a turn-key solution for safe, secure, legal, and collaborative experimentation.
What JIFX isn’t:

• Tradeshow
• Conference
• Sales Event
• Demonstration
• Lectures
• Presentation
• Acquisition Event
FUNDAMENTAL TENETS

AUSTERE BY DESIGN

COLLABORATION IS EXPECTED

BOUNDED, NOT CONTROLLED

DEVELOP NOW!

FAILURE = LEARNING

INCLUSIVE
Event Location

1 – 5 May 2023
McMillan Airfield at Camp Roberts

Closest Town: Paso Robles, Atascadero, San Luis Obispo
Closest Airports: San Luis Obispo (45m), Monterey (1h30m), Bakersfield (2h), San Jose (2h15m), SF (2h40m)
Camp Roberts Facilities: McMillan Airfield
Camp Roberts Facilities: Combined Arms Collective Training Facility (CACTF)

26-acre full-scale urban operations training facility including a mock church, police station with underground jail, three-story hotel, businesses, residential buildings, underground tunnels, and a rubble pile.
Registration & Gate Access

• Registration is required for all participants
  • [www.nps.edu/web/fx/register](http://www.nps.edu/web/fx/register)
  • Be sure to scroll all the way through the safety brief!

• Non-US Citizens deadline: 14 April 2023
## Event Schedule

<table>
<thead>
<tr>
<th><strong>Monday:</strong></th>
<th>0900 Venue/Registration Opens</th>
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<tbody>
<tr>
<td></td>
<td><strong>1000 Event Kick-Off Brief</strong>*</td>
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<td>Frequency Verifications</td>
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<td>Experimentation</td>
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<td>1630 Evening Brief***</td>
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<th><strong>Tuesday:</strong></th>
<th>0730 Venue/Registration Opens</th>
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<td>0800 Morning Brief***</td>
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<td>0830 Flyers Meeting</td>
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<td>0800 Morning Brief***</td>
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<th><strong>Thurs:</strong></th>
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<tr>
<td></td>
<td>0800 Morning Brief***</td>
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<td>0830 Flyers Meeting</td>
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<td>Experimentation</td>
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<td>1200 Event Closing Brief***</td>
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<td>Experimentation</td>
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| **Fri:**     | Clean-up (As Needed)          |

*All Briefs will be broadcast for virtual participation.*
Monday Schedule

Arrive at JIFX
- Enter through the Camp Roberts main gate and follow the signs to McMillan Airfield
- Park in Designated Parking Areas

Check-In at Registration
- Receive your participant badge

Attend the Event Brief at 1200
- Virtually or In-Person

Frequency Verification
- Required for all emitters!

COPERS Check-In
- Get log-in information
- Required for all experiments

Experiment!
Experiment Introductions

• Introduction of Experiment
• How can you support other experiments?
• How can other experiments integrate with you?
• Share contact info in the chat

1-2 minutes each
Shipping

**Parcel Service (Individual packages, less than 150 lbs)**
NPS Field Laboratory - McMillan Airfield
Attn: (*Your Company / Your Name*)
Bldg 914, Shipping & Receiving
Camp Roberts, CA 93451-5000
Ph 805-227-1314

**Directly to the Airfield: Freight**
NPS Field Laboratory - McMillan Airfield
Attn: (*Your Company / Your Name*)
McMillan Airfield, East Perimeter Rd
Camp Roberts, CA 93451-5000
Ph 805-227-1314

Addresses are posted on the website!
www.nps.edu/fx
Event Safety

- Emergency Services are 30-45 minutes away
- Lots of wildlife, big and small.
- Dry, desert heat. Cold nights, warm days.
- Fire safety is a major concern.
- Emergency Phone Numbers will be on the back of all participant name badges.
- Food options are limited.
Airspace Safety

www.nps.edu/fx

- Airspace Control Plan (ACP)
- Pre-Mishap Plan (PMP)
Airspace Control Plan (ACP)

This **Airspace Control Plan (ACP)** outlines airspace procedures for NPS activities aboard Camp Roberts CA ARNG base and within Restricted Area R-2504A/B. The ACP is directive for all NPS JIFX event participants.

**Airspace Boundaries and Buffers must be displayed on GCS**
Pre-Mishap Plan

The PMP established procedures that will assist personnel immediately following a mishap

“In case of a mishap, or any unintended impact with the ground or another vehicle, the flying unit will immediately notify the Air Boss via Radio or phone.”
Air Operations

No flight operations are permitted unless the RED RANGE FLAG is flying. The airspace is considered “HOT” when the flag is raised.

• All UAVs and Frequency Emitting devices must be verified by JVAB prior to flight approval. Expect to complete this on Monday of JIFX week.

• An “Airboss” will manage all UAVS and always maintain safety in the airspace.
  • Prior to radiating – you need airboss approval!
  • Prior to take-off – you need airboss approval!
  • Prior to landing – you need airboss approval!

• All airboss communication will be down over the JIFX radio network.

• All event participants (on foot or on vehicle) must remain clear of the active runway and at all times unless first cleared by the Air Boss.
JIFX Networks

Communications

Local IP networking (Ethernet, WiFi)
- McMillan Airfield
- CACTF
- SLAMR
- Limited Internet connectivity

Information Technology (Camp Roberts)

Printing @ McMillan Airfield
Tactical Assault Kit (TAK)
Cursor-on-Target debugging/routing
Before You Connect...

• JIFX network is intended for:
  • Event administration
  • Rapid collaboration & integration

• Acceptable use:
  • Respect others’ operations, privacy, security
  • No malicious activity

• Consult your organization’s IT & security policies before connecting
• Coordinate with network manager before connecting systems (Joseph Lukefahr)
COPERS

• COPERS Common Operating Picture (COP) provides real-time situational awareness of your connected experiment, team and equipment.
• COPERS provides a broad array of tools and integrations including:
  • Cursor on Target (CoT)
  • Android Team Awareness Kit (ATAK)
  • ADS-B
  • Geofencing
  • Ad hoc shared map drawing
  • geochat among ATAK devices and COPERS Users
  • Biomedical sensor status
  • Cameras feeds and live streams
  • Forms and checklists
  • Equipment management

http://copers.tdkc.com/
COPERS – JIFX Integration

• Group logins available for each Experiment
• ADS-B
• Cursor on Target Integration
• Live Stream
  • YouTube
  • Twitch
• Camera Feeds
  • 1 connection between the camera feed and COPERS
  • Typically configured for, low frame rates (~1 frame / sec) to COPERS