



JIFX 21-4 Experiment Coordination Calls

04 August 2021

Call Agenda

JIFX Facility Overview

Event Logistics

Event Network

JVAB

COPERS

Questions

WHAT IS JIFX?

- Opportunity for NPS faculty, students, private companies, and academia to *experiment* with and *evaluate* new technologies *in a field environment* related to the operational needs of the Department of Navy and Department of Defense.
- Opportunity for government representatives and members of the operational force to observe these technologies and better understand the *capabilities* that they may represent.

What we are not:

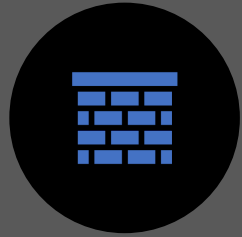
- Tradeshow
- Conference
- Sales Event
- Demonstrations



SESSION TIME (EST)	TITLE	PRESENTER	AUDIENCE
10:00 AM Welcome and Key Information for the Day: Susan Riley			
10:10AM	How to Write and Illustrate Your Own Stories	Rachel Wintenberg	🧑🏫 🧑🎨
10:30AM	Dancing through STEAM	Elizabeth Peterson	🧑🏫 🧑🎨
10:45AM	Artonia - More than Just a Gallery!	Donna Staten	🧑🎨
11:00AM BRAIN BREAK #1			
11:05AM	Patterns in Music, Dance and Mathematics	Marcia Daft	🧑🏫 🧑🎨
11:35AM	Exploring the Creative Process with Dance	Deirdre Moore	🧑🏫 🧑🎨
11:50AM	Experimenting with Color	Beth Elliston	🧑🏫 🧑🎨
12:05PM	Partner Showcase: Art to Remember		🧑🏫 🧑🎨
12:20PM	Partner Showcase: Buncee		🧑🏫 🧑🎨
12:35PM BRAIN BREAK #2			
12:45PM	Building an Arts Magnet School	Bobby Riley & Judy Kilma	🧑🏫 🧑🎨 🧑👤
1:10PM	Put on Your Math Goggles: Seeing Math in Art	Robin Ward	🧑🏫 🧑🎨
1:25PM	Design Brain-Friendly Learning Spaces	Erin Klein	🧑🏫 🧑🎨
1:50PM BRAIN BREAK #3			
	STEAM-Shop: African Thumb Piano	Tim Gregory	🧑🏫 🧑🎨
	Pinterest IN the Art Room	Donna Staten	🧑🎨
	What's the Mood...Setting...Theme?	Jennifer Kauffman	🧑🏫 🧑🎨
	Story Drama: Living through	Victoria Brown	🧑🏫 🧑🎨



FUNDAMENTAL TENANTS



AUSTERE BY
DESIGN



COLLABORATION
IS EXPECTED



BOUNDED, NOT
CONTROLLED



DEVELOP NOW!



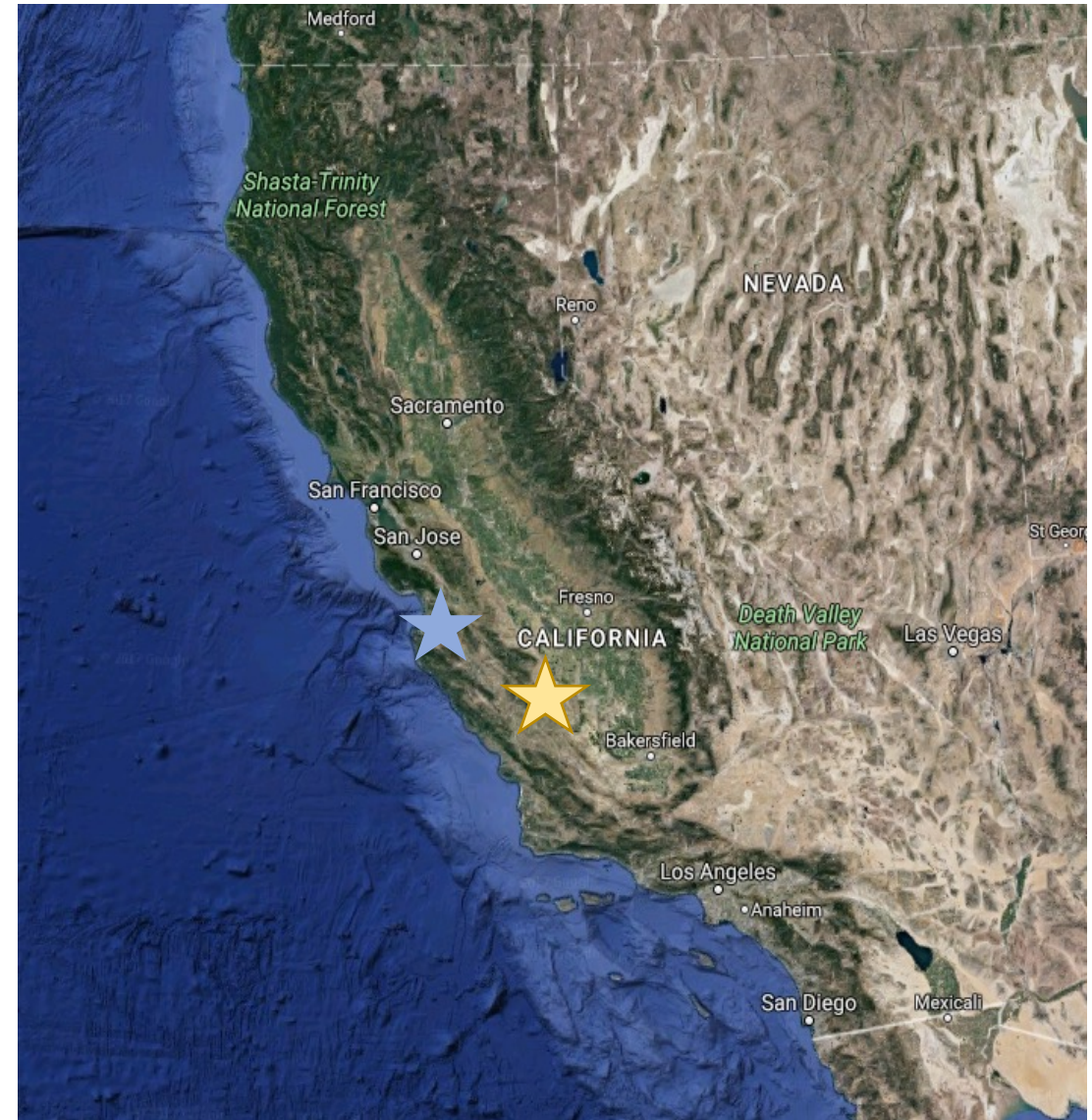
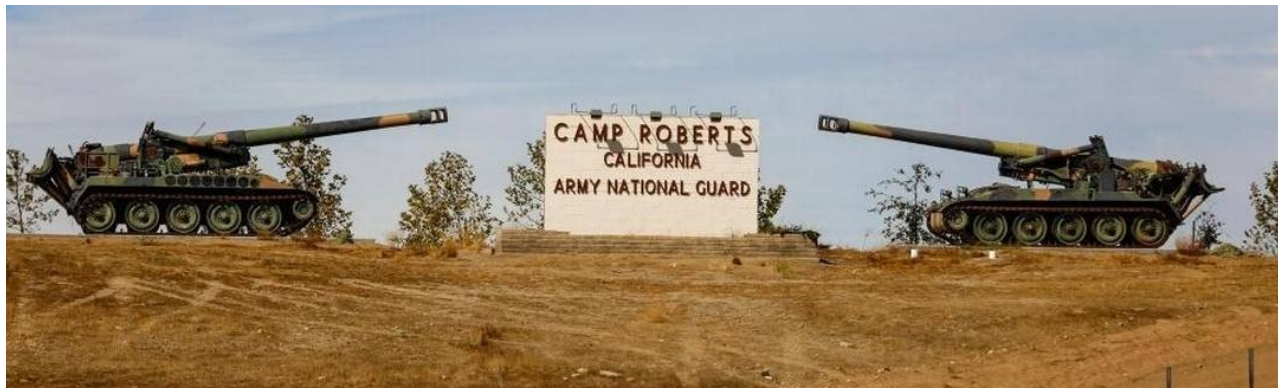
FAILURE =
LEARNING

“We assist experimenters to optimize their experiment outcomes and expand opportunities for collaboration.”

Event Locations

★ Camp Roberts Army National Guard Base

★ NPS Sea, Land, Air Military Research Aquatic Facility (SLAMR)



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.

Sea, Land, Air Military Research Facility (SLAMR)



Experiment Locations

	Experiment Number	Organization Name
		A-02
	A-03	Advanced Unmanned Aerospace
	A-04	AeroVironment Inc
	A-10	Greensight
	A-12	Spydar Sensors, Inc
	A-13	GreenSight
	A-14	Exyn Technologies
	A-15	Exyn Technologies
	A-16	Skydio
	B-02	California State University Bakersfield
	B-03	DropDrone
	C-01	Eikon Research, Inc.
	C-02	Pierce Aerospace
	E-01	Yotta Navigation
	E-02	Distributed Spectrum LLC
		Gantz-Mountain Intelligence Automation Systems, Inc.
	F-01	San Francisco Wireless Emergency Mesh
	F-02	San Francisco Wireless Emergency Mesh
	G-02	Inventina
	G-04	3amInnovations
	G-05	CommSafe AI
	G-07	Humaxa
	G-08	Digital Force Technologies
	G-09	Xona Space Systems
	H-01	Splunk & Orion Labs
	I-01	nCAP MEDICAL LLC
	I-02	Violet Defense, LLC

Camp Roberts & SLAMR	Experiment Number	Organization Name
	G-03	TMGcore LLC
	J-02	Craitor, Inc.

SLAMR	Experiment Number	Organization Name
	B-04	Booz Allen Hamilton
	D-03	infiot
	E-03	Inpher, Inc.
	G-01	Ex Scientia

Remote (Virtual)	Experiment Number	Organization Name
	G-06	Data Fusion & Neural Networks
	M-02	Cognovi Labs

Event Schedule

Monday, August 23

- 0900 Venue/Registration Opens
- 0900 - 1200 JVAB Frequency Verifications
- 1200 Event Kick-Off Brief*
- 1200 - 1600 Experimentation
- 1600 Evening Brief*

Tuesday, August 24

- 0730 Venue/Registration Opens
- 0800 Morning Brief*
- 0830 - 1600 Experimentation
- 1600 Evening Brief*
- 1630 - 2200 Evening Experimentation

Wednesday, August 25

- 0730 Venue/Registration Opens
- 0800 Morning Brief*
- 0830 - 1600 Experimentation
- 1200 JIFX Stakeholders Meeting (Govt. Only)
- 1600 Evening Brief*
- 1630 - 2200 Evening Experimentation

Thursday, August 26

- 0730 Venue/Registration Opens
- 0800 Morning Brief*
- 0830 - 1600 Experimentation
- 1600 Event Closing Brief

*All Briefs will be broadcast for virtual participation. Only 1 person per experiment will be allowed to attend the brief in the Briefing Trailer (Trailer #3) at McMillan Airfield. All other participants may participate by viewing the brief at a viewing location or dialing in on their own personal device (laptop, phone, etc). Zoom for Government dial-in information will be provided to all registered participants via email.

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

Registration

Registration is required for all participants!

Register Here:
www.nps.edu/fx

Foreign Citizens – Register ASAP!

Upcoming Events:

JIFX 21-4

23 – 27 August 2021

[Register Here](#)

Locations: McMillan Airfield at Camp Roberts & SLAMR Aquatic Tanks at NPS

Safety Notes

Per Camp Roberts Guidance, all personnel on Camp Roberts must wear a mask while indoors.

Non-vaccinated are required to wear an N95 Mask while indoors.

Expect excessive heat!

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...

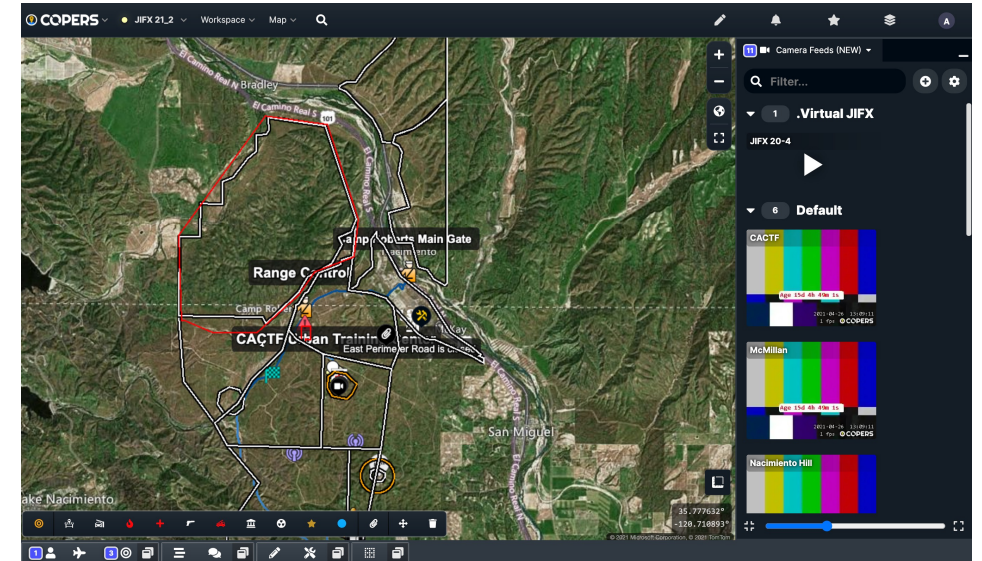
- JIFX network is intended for rapid collaboration & integration
- JIFX network is a USG system; subject to monitoring
- Acceptable use:
 - Respect others' operations, privacy, security
 - No malicious activity
- Consult your organization's IT & security policies
- Coordinate with network manager before connecting systems (Joseph Lukefahr)

Joint Vulnerability Assessment Branch

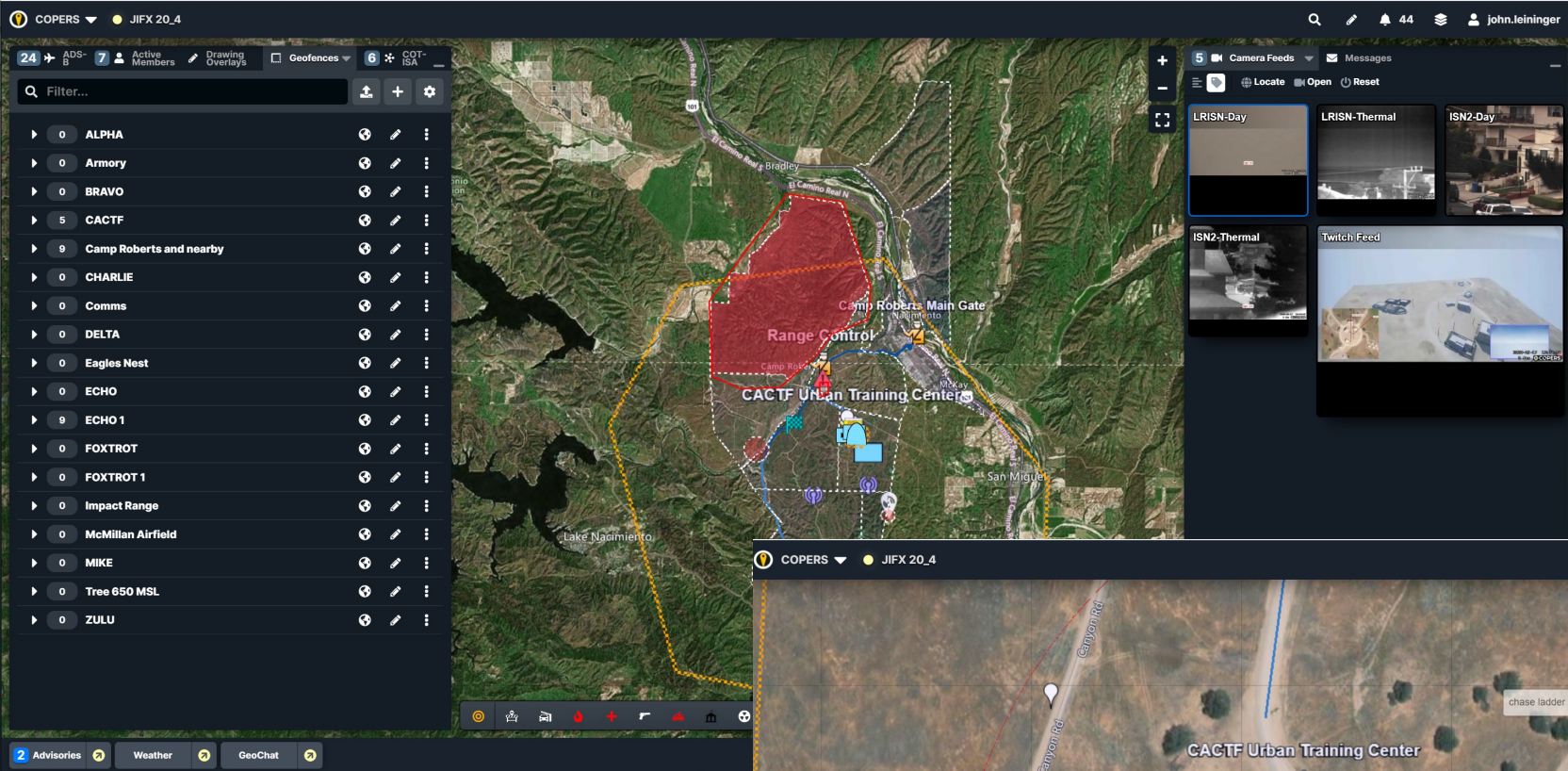
- Frequency Verifications
- Cyber Vulnerability Assessments (CVA's)
- www.nps.edu/web/fx/cybersecurity

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/>



<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

FUTURE MEETINGS

Friday, August 6

1000 PT

- Flyers Safety Meeting
- *Mandatory for all flying experiments!*

Wednesday, August 11

1030 PT

- Event Logistics (Registration, Shipping, Etc.)
- Joint Vulnerability Assessment Branch
- COPERS
- Event Network

Wednesday, August 18

1030 PT

- Event Schedule
- Final Logistics



Questions?