



JIFX
Joint Interagency Field Experimentation



NPS Joint Interagency Field Experimentation 24-4 Update

The Naval Postgraduate School (NPS), in support of the Innovation & Modernization Office OUSD R&E and NavalX, executed JIFX 24-4 at the NPS Field Laboratory on McMillan Airfield, Camp Roberts, CA from 5-9 August 2024.

There were 17 small businesses at the event exploring technologies that included UAS, situational awareness platforms, encryption, and sensors. Stakeholders represented the UK MoD, TRANSCOM, NORTHCOM, SOCOM, NSW, MARSOC, I&M, NSWC Panama City, NIWC Atlantic, AFRL, USAF Wx Systems PO, NAVAIR, NAVSEA SBIR/STTR PO, NavalX, Navy Nuclear Propulsion Lab, FLEETWERX, MSU MilTech, NAMC, the Foreign Commercial Service, and twenty NPS students, faculty, and staff.

The 24-4 event marked the end of an era for JIFX. We farewelled Mr Dirk Hale who joined the NPS team in March 2003 as the Field Laboratory facilities manager. He supported thousands of NPS researchers and visiting technologists and was a key member of all the major campus field experimentation programs including the Center for Interdisciplinary Remotely Piloted Aircraft Studies (CIRPAS), the Surveillance and Target Acquisition Network (STAN), Tactical Network Testbed (TNT), Research and Experimentation for Local and International Emergency and First Responders (RELIEF), and the Joint Inter-Agency Field Experimentation (JIFX).

We welcomed Mr Grady Gatoloai who relieved Dirk and assumed duties as the facilities manager.

The next JIFX event is scheduled for 4-8 November 2024. We are open to all technologies with relevant defense applications especially those directly related to uncrewed systems & counter-measures to those systems. Proposals for flying or emitting technologies are due by 30 August 2024. You can submit a proposal for that event here

<https://www.nps.edu/web/fx/experiment-proposal>.

167
Total
Participants

42%
DoD
Stakeholders

58%
Technologists

19
Unique
Technologies

124
Aircraft
Sorties

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Quad ID	Experiment Title	Organization	Vulcan Scout Card ID
A-04	Non-GNSS Autonomous ISR Mission with ES and SIGINT Capabilities	Bavovna Inc.	17084
A-05	One Way Lifter (OWL)	GreenSight	16095
A-06	WeatherHive	GreenSight	14423
A-07	Build 7 Transition Flight Testing	Odys Aviation	17094
A-08	Vision Based Object Tracking and Following	Odys Aviation	17644
A-09	VESA UAS Interceptor	ESAero	11615
B-02	Marco Polo - Expendable Aircraft Positioning System	Thin Air Nav Corporation	17646
B-03	Development & Assessment of Off-Road Autonomous-Driving Capabilities	BlueSpace.ai	14088
B-05	Tactical Edge Embodied AI Mesh (TEEAM)	Gambit Defense Inc.	16481
B-10	Attritable APNT System	MilTech	
B-11	Uncrewed Aircraft Using a Unique Navigation System for Extended-Range Flights Using a Controlled Glide Profile	AeroTargets International, LLC	

[nps.edu/fx](https://www.nps.edu/fx)

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Quad ID	Experiment Title	Organization	Vulcan Scout Card ID
D-01	Global Multi-Carrier Communication Solutions	Veren Industries, LLC	16566
E-02	Encrypted Secure Data-Messaging & Sharing in Contested/Denied Environments	Cyphlens	15375
F-03	Multi-Domain Expeditionary Artificial Intelligence and Behavior Analysis at-the-edge for Tactical Surveillance Application	Gantz-Mountain Intelligence Automation Systems Inc.	4624
G-01	Exercise Overview and Control	Transparent Sky, LLC	
G-02	Hadean - AI-powered Spatial Computing Platform	Stucan Solutions Corp	17146
G-03	REDQUEEN	Darkhive	17362
K-01	QUICKBLOCK - Rapid Infrastructure Construction & Protection	Stucan Solutions Corp	16112
M-02	Narrative Intelligence: Actionable Insights for Information Operations	Clara Copilot	16451

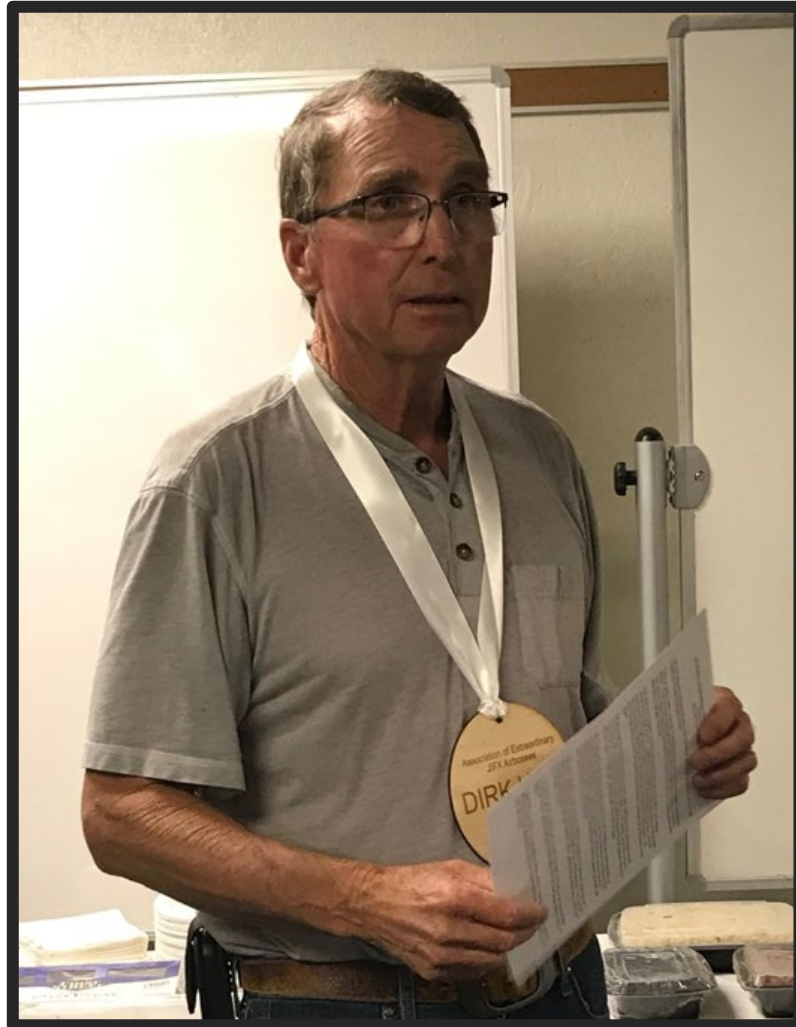


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Association of Extraordinary JIFX Air Bosses (AEJAB) Hall of Fame Induction



Mr Dirk Hale, NPS Field Laboratory Manager, was inducted into the AEJAB Hall of Fame at the conclusion of 24-4. Dirk, the longest serving and most dependable air boss in program history, supported his final JIFX in August.



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B-11: AeroTargets International employed COTS UAS to gather data on a “Pulse Gliding Flight” (PGF) technique in preparation for future experimentation. The technique extended UAS range by up to 60%.



B-05: Gambit Defense aircraft recovered after completing a three-ship autonomous swarm mission.



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K-01: QUICKBLOCK begins a one-year longitudinal experiment with their newest flat pack shelter prototype. We encourage all McMillan visitors to explore the shelter and provide feedback directly to the Quicklook team.




QUICKBLOCK®

We're thrilled to have this opportunity to trial our QUICKBLOCK shelter

This is a prototype (V1) of our shelter, and we would be delighted to have your feedback, thoughts and suggestions to improve it for instant infrastructure and protection. The goal is to keep people safe in a situation of need.



Scan the QR code to find out more, leave your thoughts and suggestions.

www.quickblock.uk
+44 (0)1786 643 939

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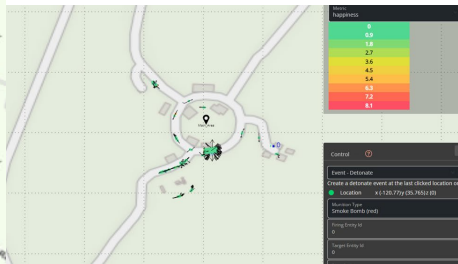
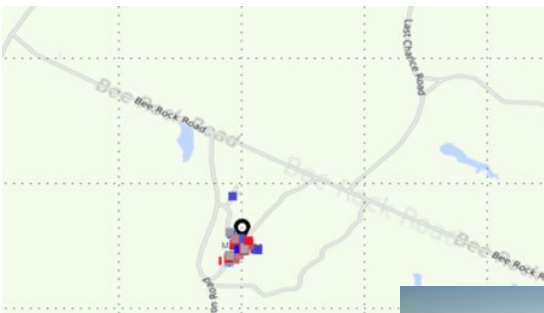


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A-04: Bavovna passive RF sensing payload attached to a UAS platform ready to conduct a experiment to identify participating JIFX aircraft and precisely locate each system's ground control station.



G-02: Hadean employed an AI enabled system to fuse data from JIFX participants, with simulation derived and computer-generated data into a single web interface to create a dynamic live, virtual, and constructive visualization displayed on wall monitors as well as in VR goggles.



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G-01: Transparent Sky, LLC operated their low cost wide angle camera sensor system from a manned aircraft to produce high resolution 3D renderings of the CATF and other experimentation sites.



Upcoming Events

Event	Dates	Focus Area	Location
JIFX 25-1	4-8 November 2024	Unmanned Systems and Counter-measures	NPS Field Laboratory
JIFX 25-2	3-7 February 2025	Sustained Operations	NPS Field Laboratory
JIFX 25-3	12-16 May 2025	Command, Control, and Communications	NPS Field Laboratory
JIFX 25-4	11-15 August 2025	Human Machine Integration	NPS Field Laboratory



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