

# 2023 GLOBAL AUTONOMOUS SYSTEMS CONFERENCE

## Wednesday, August 9, 2023

8:30 AM Exhibit Hall Open | Conference Registration Open | Breakfast is Served

9:30 - 9:40 AM Welcome Remarks by **Dr. Cathy Cahill** (Alaska Center for Unmanned Aircraft Systems Integration, University of Alaska Fairbanks)

9:40 - 9:45 AM Welcome Remarks by **Mayor Dave Bronson** (The City of Anchorage)

9:45 - 9:55 AM Welcome Remarks by **Lt. Governor Nancy Dahlstrom** (The State of Alaska)

9:55 - 10:00 AM Recorded Welcome Remarks by **Rep. Mary Sattler Peltola** (U.S. House of Representatives)

10:00 - 10:30 AM Skyward Bound: How Drones Can Revolutionize Healthcare Delivery in Remote Areas by **Dr. Anne Zink** (The State of Alaska)

10:30 - 10:45 AM Break - Visit Exhibitor Booths

10:45 - 11:45 AM	Emergency Management	Policy	AI Device Control
Description:	<i>This panel will address the question: How are autonomous solutions being implemented and removing limitations in emergency management?</i>	<i>As new autonomous technologies are introduced, governments create policies addressing community concerns. This panel will discuss policies that governments are considering to address concerns and safety.</i>	<i>Experts are developing new methods and technologies for autonomous operations. This panel will discuss some of these cutting-edge methods and technologies.</i>
Moderator:	<b>Greg Foster</b> (ACUASI, UAF)		<b>Bill Smith</b> (The State of Alaska)
Panelists:	<b>Adam Kayser</b> (Alaska Clean Seas) <b>William Mason</b> (U.S. Coast Guard)	<b>Cathy Cahill</b> (ACUASI, UAF)	<b>Jonathan Bearce</b> (Merlin Labs) <b>Jay Byam</b> (Kartorium) <b>Humberto Garcia</b> (Idaho National Laboratory)

11:45 AM - 12:15 PM Break - Lunch is Served

12:15 - 1:15 PM Introducing Autonomous AI Systems into Everyday Life through an Ethical and Responsible Lens by **Michael Cruz** (Microsoft) and **Pam Wood** (Hewlett Packard Enterprise)

1:15 - 1:30 PM Break - Exhibitor Booths

1:30 - 2:30 PM	Geophysical Hazards	Advanced Air Mobility	AI for Systems Optimizations
Description:	<i>Autonomous systems are used for mapping and collecting data. Join us for a discussion of operational applications and state-of-the-art systems currently in use for geophysical hazard mapping and sampling.</i>	<i>This panel will discuss Advanced Air Mobility and the potential for the future of aviation in the United States.</i>	<i>This panel will discuss the use of autonomous systems to streamline operations, data collection, and safety for public and private organizations.</i>
Moderator:	<b>Peter Webley</b> (ACUASI, UAF)	<b>Mark Guid</b> (Lumark Technologies, Inc.)	<b>Manu Kalia</b> (Greensparc Inc.)
Panelists:	<b>Lance Brady</b> (United States Geological Survey) <b>Timothy Glassett</b> (Alaska DOT & PF) <b>Tyson Lee Swetnam</b> (University of Arizona)	<b>John S Eberhardt III</b> (ATA, LLC) <b>Elizabeth Soltys</b> (Collins Aerospace   An RTX Business)	<b>David Krause</b> (Influential Drones) <b>Jenn Player</b> (Skydio, Inc.) <b>John Younkin</b> (Collins Aerospace)

2:30 - 2:45 PM Break - Exhibitor Booths

2:45 - 3:45 PM	Wildfire	Communications	AI Safety & Security
Description:	<i>This panel will explore new and innovative ways to monitor or mitigate wildfire utilizing autonomous systems.</i>	<i>This panel will examine the rapidly growing communication needs of both Alaska and our nation to improve access to education, healthcare, and other vital services in underserved communities.</i>	<i>This panel will examine and address concerns about AI, including cybersecurity infrastructure and the path for safely utilizing AI.</i>
Moderator:	<b>Nettie La Belle-Hamer</b> (University of Alaska Fairbanks)	<b>Mark Guid</b> (Lumark Technologies, Inc.)	<b>Leonard Robertson</b> (Office of Governor Mike Dunleavy)
Panelists:	<b>Matt Parker</b> (Precision Integrated Programs, LLC) <b>Jennifer Schmidt</b> (University of Alaska, Institute of Social and Economic Research) <b>Dave Whitmer</b> (Global UAS Solutions)	<b>Lorne Cass</b> (Aero NowGen Solutions LLC) <b>Francis LaChapelle</b> (MTA) <b>Chris Stoner</b> (AWS Open Data Team)	<b>Michael Cruz</b> (Microsoft) <b>Sam Enoka</b> (Greensparc, Inc.) <b>Rahul Gupta</b> (Accenture Strategy and Consulting) <b>John Younkin</b> (Collins Aerospace)

# 2023 GLOBAL AUTONOMOUS SYSTEMS CONFERENCE

Wednesday, August 9, 2023

3:45 - 4:00 PM

Break - Exhibitor Booths

4:00 - 5:00 PM

Law Enforcement Support for UAS  
Tactical/SAR Deployment

C-UAS Security

Full Integration, Corridors, UTM,  
Oh, My!

Description:

*How is law enforcement utilizing unmanned aerial systems to support the mission of search and rescue and tactical incidents? This panel will examine how drones as first responders, dedicated UAV teams, and first line officers utilizing drones are addressing these challenges while balancing the need for transparency, respecting privacy and civil liberties.*

*This panel will discuss known and future policy initiatives to address security concerns in the National Airspace with the rapid influx of drones.*

*This panel will discuss the pros and cons of different visions for how drones could operate in the National Airspace System.*

Moderator:

**Troy LaRue** (Alaska DOT & PF)

**Henry Cathey** (New Mexico State University Physical Science Laboratory)

**Dawn Zoldi** (P3 Tech Consulting)

Panelists:

**Greg Foster** (ACUASI, UAF)

**David Krause** (Influential Drones)

**Lorne Cass** (Aero NowGen Solutions LLC)

**Kyle Nordfors** (Mountain Rescue Association/Weber County Search and Rescue)

**Abigail Smith** (Federal Aviation Administration)

**Aaron Pierce** (Pierce Aerospace)

**Clay Taylor** (Dedrone)

**Nazzareno "Kip" Spurio** (Collins Aerospace)

5:00 - 6:30 PM

Welcome Reception - Dena'ina Civic and Convention Center

# 2023 GLOBAL AUTONOMOUS SYSTEMS CONFERENCE

## Thursday, August 10, 2023

8:30 AM

Exhibit Hall Open | Conference Registration Open | Breakfast is Served

9:30 - 9:45 AM

Recorded Welcome Remarks by **Senator Dan Sullivan** (U.S. Senate)

9:45 - 10:30 AM

Advanced AI Technologies by **Vinn White** (U.S. Department of Transportation)

10:30 - 10:45 AM

Break - Visit Exhibitor Booths

10:45 - 11:45 AM

Socio-Economics

Military

Transportation

Description:

*Autonomous aviation is poised to transform global transport networks, but it is crucial to examine ground level impacts across diverse economic contexts. This panel will compare anticipated impacts in key domestic and international settings.*

*This panel will look at the future of AI integration into military operations.*

*This panel will discuss how the transportation industry - from public to private sector - sees the future of Autonomous Systems integration into existing transportation systems and infrastructure.*

Moderator:

**Mike Jones** (University of Alaska, Institute of Social and Economic Research)

**Steve Wackowski** (Office of Senator Lisa Murkowski)

**James Parrish** (ACUASI, UAF)

Panelists:

**Bob Brock** (Kansas Department of Transportation)  
**David Heath** (BBP Solutions)

**Randy "Church" Kee** (Ted Stevens Center for Arctic Security Studies)  
**Tanya Parypa** (National Security Innovation Network)  
**Dawn Zoldi** (P3 Tech Consulting)

**Commissioner Ryan Anderson** (Alaska DOT & PF)  
**Clint Johnson** (National Transportation Safety Board)  
**Randy Ruaro** (AIDEA)

11:45 AM - 12:15 PM

Break - Lunch is Served | Live Stream by Dawn of Drones

12:15 - 1:15 PM

Lunch Presentation by **Senator Wayne Langerholc** (Pennsylvania Senate)

1:15 - 1:30 PM

Break - Exhibitor Booths

1:30 - 2:30 PM

Rural Community Needs & Impact

Repeatable Operations

Infrastructure

Description:

*This panel will discuss the needs of rural communities and the possible positive and negative impacts of implementing autonomous systems to address these needs.*

*This panel will explore the use of automated solutions in current commercial and governmental operations. The panel will include businesses and agencies who are currently using autonomous or remotely piloted systems in real-world, repeatable operations.*

*This panel will discuss the development and implementation of infrastructure to support autonomous aircraft systems in Alaska and across the Nation.*

Moderator:

**Tanya Kaquatosh** (Doyon, Limited)

**Peter Webley** (ACUASI, UAF)

**Adam McCullough** (NV5 Geospatial)

Panelists:

**Clarence Daniel** (Association of Village Council Presidents)  
**Victor Joseph** (Center for Alaska Native Health Research, UAF)  
**Linda Pulli** (Merck)

**Bob Brock** (Kansas Department of Transportation)  
**Jacques Cloutier** (Alyeska Pipeline Service Company)  
**Jenn Player** (Skydio, Inc.)

**Joe Carlton** (Alaska Railroad Corporation)  
**Rich Hanowski** (Virginia Tech Transportation Institute)  
**Greg Dyer** (Woolpert)

2:30 - 2:45 PM

Break - Exhibitor Booths

2:45 - 3:45 PM

Emerging Technology

Security

Inspection

Description:

*This panel will focus on the current state of the art Autonomous Systems and beyond. What's around the corner and coming next? What might be the next groundbreaking Autonomous Systems technology that could change the industry, and how can the Autonomous Systems community help?*

*National and international defense departments are using autonomous systems to respond to emergencies, increase domain awareness and protect their assets. This panel will discuss the challenges and benefits of implementing these technologies.*

*This panel will look at how autonomous systems best practices can reduce risk and increase safety for infrastructure inspections.*

Moderator:

**Peter Webley** (ACUASI, UAF)

**Nick Adkins** (ACUASI, UAF)

**Clay Koplin** (Cordova Electric Cooperative)

Panelists:

**Cathy Cahill** (ACUASI, UAF)

**Rita Castonguay Hunt** (Wingtra)

**John Beaudet** (Silent Falcon UAS Technologies)

**Bryan Cole** (NOAA Federal)

**Andrew Krum** (Virginia Tech Transportation Institute)

**Joshua Gross** (U.S. Coast Guard)

**Elizabeth Soltys** (Collins Aerospace | An RTX Business)

**Barritt Lovelace** (Collins Engineers, Inc.)

3:45 - 4:00 PM

Break - Exhibitor Booths

4:00 - 5:00 PM

Building a Safe Autonomy Future by **John Younkin** (Collins Aerospace)

5:00 - 8:00 PM

Networking Reception - Alaska Aviation Museum

# 2023 GLOBAL AUTONOMOUS SYSTEMS CONFERENCE

## Friday, August 11, 2023

8:30 AM

Exhibit Hall Open | Conference Registration Open | Breakfast is Served

9:30 - 9:45 AM

Welcome Remarks by **Senator Lisa Murkowski** (U.S. Senate)

9:45 - 10:30 AM

Chat GPT by **Michael Cruz** (Microsoft)

10:30 - 10:45 AM

Break - Visit Exhibitor Booths

10:45 - 11:45 AM

Education

Research & Development

Oceanography

Description:

*This panel will discuss the jobs and skills required to enable the development and use of current and future autonomous systems.*

*This panel will focus on new and upcoming R&D areas to benefit the UxS community, what is needed in R&D to support the scaling of the UxS industry, and how academia, government, and private sector can work together for the benefit of all.*

*This panel will discuss how autonomous systems are changing our understanding of the ocean.*

Moderator:

**Dayna DeFeo** (University of Alaska Anchorage)

**Peter Webley** (ACUASI, UAF)

**Seth Danielson** (University of Alaska Anchorage)

Panelists:

**Adam Low** (University of Alaska Fairbanks)

**Jill Brandenberger** (Pacific Northwest National Laboratory)

**Brian Connon** (Saildrone)

**Michael Hatfield** (University of Alaska Fairbanks)

**Don Berchoff** (TruWeather Solutions Inc.)

**Tommy Sheridan** (Alaska Blue Economy Center)

**Hank Statscewich** (University of Alaska Fairbanks)

**Jamey Jacob** (Oklahoma State University)

11:45 AM - 12:15 PM

Break - Lunch is Served

12:15 - 1:15 PM

North to the Future by **Jake Sloan** (JS Media LLC), **Ben Kellie** (University of Alaska) and **Nick Adkins** (Alaska Center for Unmanned Aircraft Systems Integration, University of Alaska Fairbanks)

1:15 - 1:30 PM

Break - Visit Exhibitor Booths

1:30 - 2:30 PM

Filling Future Jobs

Current Research

Economic Opportunities

Description:

*This panel will discuss how we excite and prepare a workforce for filling the new jobs needed to enable future autonomous systems and their operations.*

*This panel will discuss some of the exciting areas of research in the area of autonomous systems.*

*This panel will discuss some of the economic opportunities being generated by the development and use of autonomous systems.*

Moderator:

**Nick Adkins** (ACUASI, UAF)

**Steve "Lux" Luxion** (ASSURE)

**Mark Billingsley** (University of Alaska Fairbanks Center ICE)

Panelists:

**Bob Brock** (Kansas Department of Transportation)

**Andrew Denney** (Physical Science Laboratory / NMSU)

**Jody Edmondson** (The Alaska Blue Economy Center)

**Lee Butterfield** (Advanced Aerial Education)

**Matt Fladeland** (NASA Ames Research Center)

**Ben Kellie** (University of Alaska)

**Jerry Hendrix** (University of Alabama Huntsville)

**Peter Webley** (ACUASI, UAF)

2:30 - 2:45 PM

Break - Exhibitor Booths

2:45 - 2:55 PM

Remarks by **President Pat Pitney** (University of Alaska)

2:55 - 3:45 PM

Closing Presentation by **Dr. Cathy Cahill** (Alaska Center for Unmanned Aircraft Systems Integration, University of Alaska Fairbanks)

3:45 - 4:00 PM

Closing Remarks