Event Agenda

2025 ALASKA GEOSUMMIT

Wed, Apr 09, 2025

7:30 AM - 8:30 AM — **Breakfast**
Location: Exhibit Hall

8:00 AM - 5:00 PM — **ESRI Hands-On Learning Lab (HOLL)**
Location: K'enakatnu Boardroom

8:30 AM - 9:00 AM — **Welcome and Conference Kick-off**
Location: Kahtnu 1&2

9:00 AM - 10:00 AM — **Keynote: Devaki Raj, Chief Digital and AI Officer at Saab Inc.**
Location: Kahtnu 1&2
Speaker: Devaki Raj

10:00 AM - 10:30 AM — **Networking Break**
Location: Exhibit Hall

10:30 AM - 12:00 PM — **Beyond Observing: Understanding the Earth from Space**
Location: Kahtnu 1&2
Moderator: Becci Anderson

Advancing Earth Observation with ICEYE: SAR Technology for Persistent Monitoring in All Conditions
10:30 AM - 10:50 AM
Speaker: Vince Hurley

No-Cost High Resolution Commercial Imagery Collection for Alaska
10:50 AM - 11:10 AM
Location: Recorded presentation
Speaker: Paul Young

GINA: Serving Near-Real Time Satellite Imagery and Building Geospatial Collaboration
11:10 AM - 11:30 AM
Speaker: Owen Larson

Get Ready For NISAR: Using NISAR data in GIS
11:30 AM - 11:45 AM
Speaker: Jacquelyn Smale

10:30 AM - 12:00 PM — **Community-Based Solutions and Insights**
Location: Tubughnenq'
Moderator: Gary Greenberg

Climate Resilient Rural Infrastructure
10:30 AM - 10:40 AM
Speaker: Jacquelyn Overbeck

Geospatial Program Development at Tanana Chiefs Conference, Interior Alaska
10:40 AM - 10:50 AM
Location: Recorded presentation
Speaker: Robert "Bob" Sattler

Critical Infrastructure: From Community Mapping to Statewide Common Operating Pictures
10:50 AM - 11:45 AM
Speakers: Hillary Palmer, Harper Baldwin, Christine Langley

12:00 PM - 1:30 PM — **Lunch**
Location: Exhibit Hall

1:30 PM - 3:00 PM

Bridging Data and Innovation: Collaborative Approaches to Flood Hazards and River Mapping in Alaska
Location: Kahtnu 1&2
Moderator: Angie Southwould

River Mapping in Remote Alaska: Topobathymetric Lidar Solutions
1:30 PM - 1:45 PM
Speaker: Lara Heitmeyer

A State and Federal Agency Collaboration for Advancing Sea-level Rise and Flood Risk Products for Alaskan Coastal Communities
1:50 PM - 2:50 PM
Speakers: Nora Nieminski, Ann Gibbs, Harper Baldwin, Dana Brown

1:30 PM - 3:00 PM

From Space to Sea: Geodesy and GNSS
Location: Tubughnenq'
Moderator: Joel Cusick

GNSS New Signals in Space Revisited
1:30 PM - 1:55 PM
Speaker: Bob Green

Surveying the Alaskan Wilds: Geodetic Best Practices for Reliable Results
1:55 PM - 2:20 PM
Speaker: Evon Silvia

Adventures in Multipath: Extracting Tides & Water Levels from Noise
2:20 PM - 2:45 PM
Speaker: Nathan Wardwell

3:00 PM - 3:30 PM

Networking Break
Location: Exhibit Hall

3:30 PM - 5:00 PM

From Planning to Publishing: How to Improve Data Accessibility
Location: Kahtnu 1&2
Moderator: Leslie Jones

Tackling Complexities of Large-Scale Data Management. Innovations and Insights
3:30 PM - 3:50 PM
Speaker: Rada Khadjinova

The Future of the US Mapping Coordination Site
3:50 PM - 4:00 PM
Speaker: Cathleen Yung

Modernizing Access and Visualizations to Alaska's LiDAR: NUVIEW's Approach
4:00 PM - 4:20 PM
Speaker: Jacob Thiel

Automation...the "Easier Button" to Parcel Data Governance
4:20 PM - 4:40 PM
Speaker: Dustin Walters

Leveraging In-State Data Storage and Compute Capability...Improved Access, Speed, and Quality at a Reduced Cost
4:40 PM - 4:50 PM
Speaker: Sam Enoka

3:30 PM - 5:00 PM

Innovation in Wildfire Management
Location: Tubughnenq'
Moderator: Marta Kumle

Advancing Wildfire Management in Alaska: A Practical Approach to Real-Time Fire Detection and Tracking
3:30 PM - 3:50 PM
Speakers: Yali Wang, Arghya Das

Wildfire Exposure and Risk Map Development with Dillingham and Igiugig, Alaska
3:50 PM - 4:00 PM
Speaker: Hannah Chapman-Dutton

Tracking Alaska Wildland Fire Spread derived from VIIRS Satellite Thermal Point Data.
4:00 PM - 4:20 PM
Speaker: Melania Stoeber

Quantifying Land and Infrastructure Values Impacted by or in Proximity to Wildfire
4:20 PM - 4:40 PM
Speaker: Connor Edick

5:00 PM - 8:00 PM

Gold Sponsor's Networking Social
Location: Exhibit Hall

Thu, Apr 10, 2025

7:30 AM - 8:30 AM **Breakfast**
Location: Exhibit Hall

8:00 AM - 5:00 PM **ESRI Hands-On Learning Lab (HOLL)**
Location: K'enakatnu Boardroom

8:30 AM - 9:00 AM **Awards Ceremony**

9:00 AM - 10:00 AM **Keynote: Holli Howard, Geospatial Industry Lead for Google Maps**
Location: Kahtnu 1&2
Speaker: Holli Howard

10:00 AM - 10:30 AM **Networking Break**
Location: Exhibit Hall

10:30 AM - 12:00 PM **Modalities in Motion: Platform Considerations for Alaska**
Location: Kahtnu 1&2
Moderator: Xan Fredericks

    Multi-modal Acquisition - Choosing the Right Acquisition Platform
    10:30 AM - 10:50 AM
    Speaker: Ron Chapple
    NOAA Furthers its Mission in Alaska with Uncrewed Aerial Systems
    10:50 AM - 11:10 AM
    Speaker: Jessica Cherry
    Lidar Processing and Specification Considerations for the Arctic
    11:10 AM - 11:30 AM
    Speakers: Andrew Herbst, Caroline Raiford, Drew Carey
    Revolutionizing Earth Observation with Space-Based LiDAR
    11:30 AM - 11:50 AM
    Speakers: Jacob Thiel, Clint Graumann

10:30 AM - 12:00 PM **Monitoring and Early Detection for Effective Management**
Location: Tubughnenq'
Moderator: Kerry Shakarjian

    How Aerial Thermal Infrared Mapping can Improve Monitoring the Health of Vertical Support Heat Pipes along the Trans Alaska Pipeline System
    10:30 AM - 10:55 AM
    Speaker: Mousa Diabat
    North Slope Tundra Travel Management Using Remote Data Loggers and GIS
    11:00 AM - 11:25 AM
    Speakers: Alexander Zinck, Becky Baird
    Partnering Across Alaska's Data Gaps
    11:30 AM - 11:55 AM
    Speaker: Marcus Geist

10:30 AM - 12:00 PM **Unlocking Surface Water Insights with USGS 3D Hydrography Program Data**
Location: K'enakatnu Boardroom
Speaker: Karen Adkins

12:00 PM - 1:30 PM **Lunch**
Location: Exhibit Hall

12:20 PM - 1:30 PM **AAUG Trivia GeoPardy!**
Location: K'enakatnu Boardroom
Moderator: Joel Cusick

1:30 PM - 3:00 PM

Digital Horizons: 3D Mapping Above Below, and Beyond
Location: Kahtnu 1&2
Moderator: Andrew Herbst

So, you think you know what a Digital Twin is?
1:30 PM - 1:50 PM
Speaker: Steve Mulberry

Subsurface Mapping: Leveraging Airborne TDEM and Triaxial Mag/Rad Technologies for Geological and Environmental Insights
1:50 PM - 2:10 PM
Speaker: Kevin Killin

Subsea Laser Scanning: Innovation in Cook Inlet
2:10 PM - 2:30 PM
Speaker: Adam Taylor

The USGS Earth Mapping Resources Initiative: Using Airborne Methods to Map Critical Mineral Potential
2:30 PM - 2:50 PM
Speaker: Jamey Jones

1:30 PM - 3:00 PM

Wayfinding the Wild: Exploring Transportation in Alaska
Location: Tubughnenq'
Moderator: Tracy Fuller, Marta Kumle

Discoveries in the Arctic: Overcoming Challenges to Map the Arctic Port Access Route
1:30 PM - 1:40 PM
Speaker: Caroline Wilkinson

Team Approach for Alaska DOT&PF GIS Project
1:45 PM - 2:00 PM
Speaker: Matt Murphy

Evolution of MOA Winter GIS
2:05 PM - 2:20 PM
Speakers: Christopher Smith, Grant Cain

Introduction to the Federal Trail GIS Schema: Leveraging a Unified Strategy
2:25 PM - 2:40 PM
Speaker: Kerry Shakarjian

Incorporating Alaska's Marine Highway System into the Statewide Roads and Highways LRS
2:45 PM - 3:00 PM
Location: Recorded presentation
Speaker: Tyler Hislop

3:00 PM - 3:30 PM

Networking Break
Location: Exhibit Hall

3:30 PM - 5:00 PM

Energizing Rural Alaska: Harnessing 2D & 3D Data for Smarter Solutions
Location: Kahtnu 1&2
Moderator: Chris Noyles

Energyshed Alaska: Leveraging Data to Deploy Renewable Energy Projects
3:30 PM - 3:55 PM
Speaker: Jay Byam

Mapping and Capturing the Gaps: Inventory and Assessment of Critical Energy Infrastructure in Rural Alaska
4:00 PM - 4:25 PM
Speaker: Chris McConnell

Spatial Complexities of Alaska's Energy Data
4:30 PM - 4:55 PM
Speaker: Will Fisher

3:30 PM - 5:00 PM

The Coast from Above: Satellite Applications
Location: Tubughnenq'
Moderator: Ann Gibbs

Deep Dive of Satellite Capability for Mapping Alaska Coastline
3:30 PM - 4:10 PM
Speaker: Ross Smith

Satellite-based coastal monitoring: tools for efficient pre- to post-storm assessments
4:15 PM - 4:35 PM
Speaker: Edward Albada

An Update on NOAA's SatBathy Tool - Mapping Bathymetry in Challenging Waters and Harnessing the Potential of Satellite Imagery
4:40 PM - 4:50 PM
Location: Recorded presentation
Speaker: Brian Madore

3:30 PM - 5:00 PM	**Unlocking Surface Water Insights with USGS 3D Hydrography Program Data**
Location: K'enakatnu Boardroom
Speaker: Karen Adkins

5:30 PM - 8:30 PM	**Platinum Sponsor's Spatial Social**
Location: 49th State Brewery

Fri, Apr 11, 2025

8:00 AM - 9:00 AM	**Breakfast**
Location: Exhibit Hall

8:00 AM - 1:30 PM	**ESRI Hands-On Learning Lab (HOLL)**
Location: K'enakatnu Boardroom

9:00 AM - 10:30 AM	**Permafrost, Water and Fisheries: Data and Tools**
Location: Kahtnu 1&2
Moderator: Sydney Thielke

> **The Permafrost Discovery Gateway: A Free Map Toolbox to Empower all Alaskans**
> 9:00 AM - 9:20 AM
> Speaker: Anna Liljedahl
>
> **The better the dot, the better the fishing? Habitat Mapping with Community-based Soundings and Local Tide Data**
> 9:25 AM - 9:35 AM
> Speaker: Mike Willis
>
> **Virtual Watersheds in Alaska: Characterizing Salmonid Habitats, Flood Zones, Riparian Functions, Road-Channel Interactions, and Landslide-Debris Flow Susceptibility**
> 9:40 AM - 10:00 AM
> Speaker: Lee Benda
>
> **3DHP Hydrography in Alaska and the Potential for Its Increased Utility**
> 10:05 AM - 10:25 AM
> Speaker: Joseph Jones

9:00 AM - 10:30 AM	**AI in Action: Simple to Sophisticated Solutions**
Location: Tubughnenq'
Moderator: Hillary Palmer

> **AI is Your Friend: How AI Can Modernize the GIS Professional's Role in Today's World**
> 9:00 AM - 9:25 AM
> Speaker: Brett Clark
>
> **GeoAI for Environmental Understanding in Alaska**
> 9:30 AM - 9:55 AM
> Speaker: Matthew Macander
>
> **Comparative Analysis of Aspen Leaf Miner Detection and Severity Assessment in interior Alaska Using Multi-Resolution Remote Sensing**
> 10:00 AM - 10:25 AM
> Speakers: Sumana Sahoo, Santosh Panda

10:30 AM - 11:00 AM	**Networking Break**
Location: Exhibit Hall

11:00 AM - 11:30 AM	**Who Is a GISP: A Guide to Becoming a Certified Geospatial Professional**
Speaker: Tony Spicci, GISP CGMP

11:30 AM - 12:30 PM	**Closing Plenary: Leveraging Geospatial Technologies to Improve Emergency Response: From Technology to People**
Location: Kahtnu 1&2
Moderator: Leslie Jones ; Speakers: Nicole Kinsman, Ryan Marlow, Xan Fredericks, Mike Knapp

12:30 PM - 1:30 PM	**Boxed Lunch To Go**
Location: Exhibit Hall

1:30 PM - 5:00 PM	**Hands-on Training Workshop: Preparation for NSRS Modernization in Alaska : Tools, Products, and Services**
Location: Kahtnu 1&2
Speakers: Jeff Jalbrzikowski, Nate Murry, Nathan Wardwell, Joel Cusick, Gwen Gervelis, Lynda Bell

1:30 PM - 5:00 PM   **Assessing the Quality of Remotely Sensed Data: Practical Tools and Techniques for Data Users**

Location: Tubughnenq'
Speakers: Amr Abd-Elrahman, Andrew Herbst, Drew Carey