



## **MEGUG Drone Mini-Conference and Mappy Hour** **May 11, 2022 ■ Brunswick, Maine**

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### **Presentations**

Brunswick Landing Community Room, 8 Venture Avenue

### **Tours**

UMA Brunswick Center, 2 Pegasus Street

### **Mappy Hour**

Flight Deck Brewing, 11 Atlantic Avenue

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Welcome everyone! We are so happy to be back in person again! We will be spending the afternoon talking about drones and their utility across different industries, how they can be used in education, and different regulations that exist around their usage in the state of Maine.

Thank you for joining us this afternoon. We hope you find this mini-conference an enriching experience.

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*Thank you* to our conference sponsors:



MEGUG appreciates the continued support from our sustaining members:

*Blue Marble Geographics ■ ESRI ■ James W. Sewall Company ■ Wheatland Geospatial Lab ■ Maine Office of GIS ■ Maine Public Utilities Commission ■ Maine Department of Transportation ■ Spatial Alternatives ■ CAI Technologies ■ CGIS Solutions ■ City of Portland ■ Portland Water District ■ Stantec ■ Summit Natural Gas ■ Tetra Tech ■ TRC ■ Wright-Pierce*

**12:30-1:00 Arrive and Check-In**

Please check in at Brunswick Landing Community Room at 8 Venture Avenue, Brunswick, Maine

**1:00 - 1:20 Drones in Distribution Line Inspection**

*Muhammad Shah, SA Engineering*

Muhammad Shah will present information on drone services and how drones are used in the power sector.



**1:20 - 1:40 Applications of Drones in Aggregates Mining**

*Aneesh Kona and Justin Zduncyk, Pike Industries*

Pike is an aggregates mining and construction company that uses drones for mapping sites, identifying inventory on the ground, and other tasks. Pike also incorporates GIS technology in a variety of workflows, including updating site plans and capturing and using state lidar data.



**1:40 - 2:10 Drone Regulations: Current and Future**

*Daniel Leclair, University of Maine at Augusta*

Understanding the different rules and regulations that surround the usage of drone technology in the state of Maine.



**2:10 - 2:35 Break**

**2:35 - 3:05 Using Drones and Photogrammetry to Assist in Coastal Resilience Planning**

*Alex Gray, GEI Consultants*

GEI staff used a DJI Phantom 4 Pro drone, Trimble R12 GNSS receiver, Maine Technology Source RTK correction service, and the application Drone Deploy to capture ground control points and georeferenced images at four coastal boat ramp/access sites in Maine. Terrain models were developed from data collected and will be used to assist local towns with designing more resilient access to the water. Beyond the technical data they provide, drones allow us to survey environmentally sensitive areas with minimal at-grade impacts and make surveying of challenging rocky coastal terrain and offshore areas easier and safer.



**3:05 - 3:35 Getting off the Ground with Drone Photogrammetry**

*Sam Knight, Blue Marble Geographics*

From flight planning to processing data, there are many things new pilots need to know to get a successful start in drone-based mapping whether for 2D or 3D purposes. This session will explore operational concerns with getting started in photogrammetry data collection, from flight operations to data processing.



**3:35 - 3:40 Break**

**3:40 - 4:00 Drones and Old School Mapping**

*Justin Richardson, Kennebunk, Kennebunkport, and Wells Water District*

The Kennebunk, Kennebunkport, and Wells Water District has purchased a drone and uses it frequently for projects. We use it for documenting construction projects and for aerial mapping. We do not have the money for a proper mapping system, so we use control points, GPS the points and georeference the drone's aerial photos to the GPS points. It's not perfect, but it suits our needs for small projects.



**4:30 Tours of UMA Aviation Facility / Mappy Hour!**

As presentations wrap up, we will migrate to Flight Deck Brewing, which is within walking distance of UMA's facility.

# MEGUG Drone Mini-Conference and Mappy Hour Locations

