

There is an eye in the sky. The Drones are coming to help on Wednesday, July 22, 2020. You are invited to join our joint virtual meeting at 3:00 pm a Free ZOOM Webinar entitled.

DRONE TECHNOLOGY & HOW IT SERVES SOCIETY DURING TIMES OF CRISIS

Scheduled are two presentations. The first presenter is Andrew Dennison, Director of Professional Services at DroneDeploy



CALIFORNIA WILDFIRE

Supporting 'Camp Fire' Relief Efforts from Above

The story of a surprising ally in the fight to save lives during California's most destructive ...

The Camp Fire is already a source for history books, but one record you may not know about is the largest UAV disaster response to date. Drones have increasingly become go-to tools for collecting aerial insights in the wake of the disaster, but the efforts that unfolded after the Camp Fire are unprecedented. Read on to learn how rescue teams used **DroneDeploy** to [map the destruction](#) to aid the recovery process in the days leading up to its containment. Coordinating all 16 drone teams would have been challenging enough with the dense smoke, high winds, and low visibility — but planning hundreds of flights with dozens of pilots meant everyone needed to be on the same page. And teams on the ground turned to **DroneDeploy** to manage flight planning and data collection.

The second presenters are the SAE Collegiate Design Series students from the Kettering University AeroConnect Challenge



2020 CHALLENGE MISSION DETAILS

Wildfires are expected to once again impact California in 2020, and local authorities are looking for new rapidly deployable Unmanned Aerial Vehicle (UAV) systems to support the fire-fighting mission. The primary missions of the UAV system shall be:

- Fire Detection, Imaging, and Tracking: The UAV system shall be capable of monitoring an area for new fires, provide imagery of on-going fires, and tracking of fire progression.
- Fire Suppression Aircraft Routing: Once a fire system is identified, the UAV system shall be capable of generating optimal routes for fire suppression aircraft into and out of the fire zone and disseminating those routes back to the ground station. Routes should ensure aircraft separation for ingress and egress of the fire suppression aircraft, as well as separation from any UAV traffic.
- Persistent Communications Node: Communication within a fire zone is critical, and lives have been lost due to communication failure. Standard Land Mobile Radios (LMR) work on Line-of-Sight, which can be a challenge in a mountainous fire zone. The UAV system shall serve as a persistent communications relay for LMRs in the VHF and UHF frequency ranges.

Registration is required for this Free ZOOM Webinar (500 link below)

<https://us02web.zoom.us/meeting/register/tZYkcO2sqzozGtT7z1A7c1ieq-kCWKGRmhf6>

Webinar scheduled for Wednesday July 22, 2020 at 3:00pm to 4:00pm EDT

For more information <http://www.midmichigansae.org/>