

Welcome to the: Thirty-First Tactical Fire Remote Sensing Advisory Committee (TFRSAC) Meeting

Hosted By:

**NASA Applied Science Program: Vince Ambrosia
USDA-Forest Service: Everett Hinkley**

29-30 May 2019

NASA Ames Conference Center (NACC)

NASA / Ames Research Park

Moffett Field, CA.



Meeting Logistics

Please sign-in each day on the attendance sheet in back of room (on table);

NASA Guest Wireless Access Info available on back of name badge;

Continental breakfast/ Lunch / break snacks / drinks provided both days

Presentations will be made available to all participants (author permitting) after the meetings. We will provide a link to the access point.

POCs:

Vince Ambrosia cell: 408-666-7609

Everett Hinkley cell: 801-455-8764



Introductions: All

Name:

Organization Affiliation:

Role at Meeting: (Presenter, Cheerleader,
etc.)





Objective / Goals of TFRSAC Meeting



OBJECTIVES

- Share on EO of wildfire by community partners; both from airborne and orbital assets; Help to increase awareness of use of data / information;
- Inform on partner affiliated programs (NASA, USFS, JFSP, DOI, DoD / Intelligence Community, Universities, Private orgs., etc.);
- **Encourage Collaborations!**

GOALS

- Build new relationships / knowledge;
- Be exposed to new ideas / concepts; Learn something new today and tomorrow!
- Walk away from the meeting with a sense of accomplishment and excitement for the coming year!
- **Be relaxed and casual while learning!!**



TFRSAC Schedule: 29 May (AM)



8:25AM Meeting start

Welcome and Introductions / Logistics (15)

Hinkley / Ambrosia

NASA Outlook (25)

Vince Ambrosia

National Infrared Operations Update (20)

Tom Mellin

U.S.F.S. (Beltway) Update (20)

Everett Hinkley

CalFire Update (25)

Phil SeLegue

10:15 AM

Break (15 min)

Canadian Fire / WildFireSat (15)

Josh Johnston

Fire Imaging Mission to Support Wildland Fire Ops (25)

Evans Kuo

DoI UAS Program Update (25)

Rich Thurau

USFS UAS Program Update (25)

Brad Quayle

Wildland Fire Vis. And 1st Responder Location (15)

Bailey Farren

12:15 PM- 1:15 PM

Lunch



TFRSAC Schedule: 29 May (PM)

1:15 PM

Fire Immediate Response System (FIRS) Wksp (25)	Ambrosia
DHS Wildland Urban Interface Fire Initiative (20)	Everett Hinkley
Status Update: Operational GOE-R Fire Products (25)	Chris Schmidt
Auto Scheduling of Agile Spacecraft Constellations for Rapid Response Imaging (20)	Sreeja Nag
Update on GeoCollaborate (15)	Dave Jones

3:00 PM Break (15 minutes)

3:15 PM

Thermal Working Group Update	Phil Mead
Tactical Information Technology Portal (20)	Davd Bernat
FASMEE Iupdate (20)	Adam Watt
SBIR Update (15)	Phil Mead
Machine Learning for Smoke Detection (15)	Kinshuk Govil

5:00 PM Adjourn



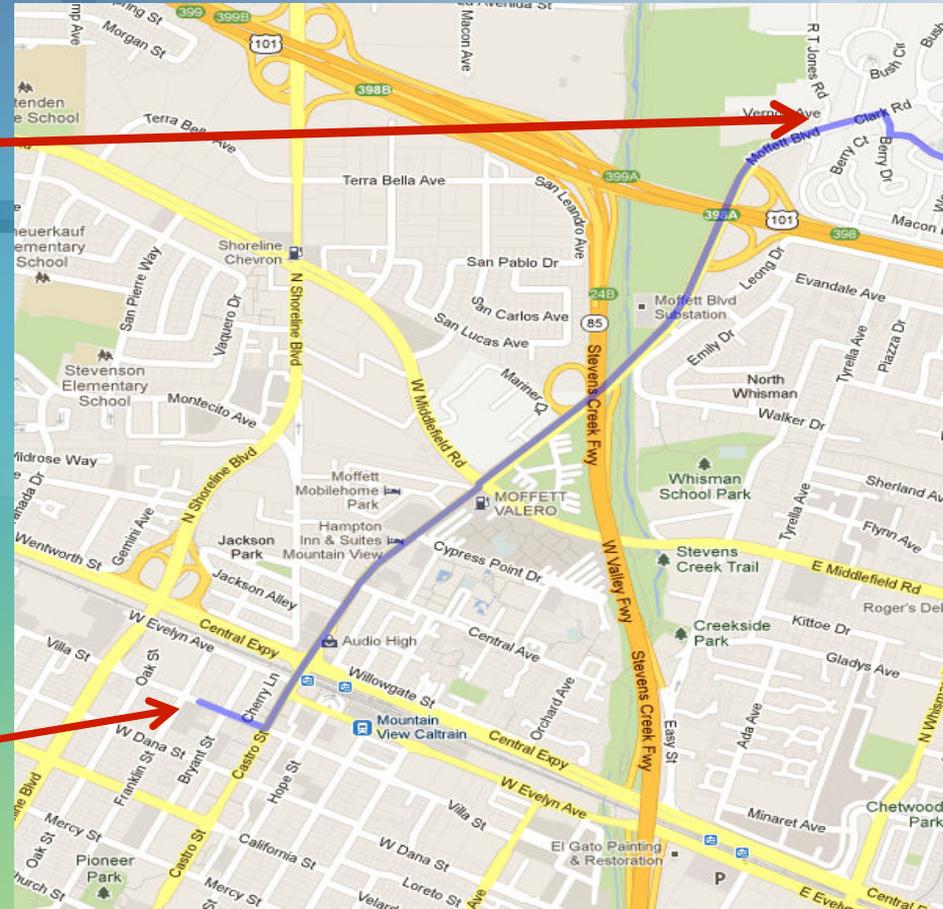
Dinner – Tied House



6:30 PM

Reservation Name: NASA TFRSAC Meeting
954 Villa Street, Mountain View, CA.

- Exit NASA-Ames Main Gate (**Moffett Blvd.**)
- Proceed 1.4 miles towards Downtown Mountain View (Moffett changes names to Castro St.)
- Pass over **Central Expy** and **RR tracks**.
- Proceed 1 block and turn **RIGHT** on **Villa Street**
- **Tied House** is just past next short block, on **RIGHT** on **Villa Street (954 Villa Street)**.
- Parking across street or behind Tied House





TFRSAC Schedule: 30 October (AM)



8:30 AM	Meeting start	
	Wednesday Recap (10)	Hinkley / Ambrosia
	VALUABLES Cost Effectiveness Study (20)	Richard Bernknopf
	Wildfire & Radar / Active Remote Sensing (20)	Nicholas McCart
	Persisted Elevated Sys. Support to Wildfire (25)	Ilya Schiller & Charlie Lambert
	R/T Fire Detection & Results of Suppression (25)	David Fuhr
10:15 AM	Break (15 min)	
10:30 AM		
	Apps of R/T Tactical Intelligence on Wildland Fires (30)	Hart Drobish & Pat Basch
	Update: TBIRD & TMAS TIR Systems (25)	John Green
11:30-12:30	AM/PM Open Discussion	All
12:30 PM	Lunch and Close of Meeting	

TFRSAC Recap: 5-29-19

- Partner Agency Status Updated
- Evans Kuo update on requirements matrix, understanding requirements from for management community, then helping to then drive development of capabilities;
- UAS activity updates;
- Fire science mission / campaign updates (FASMEE & FIRE-AQ)
- GOES update (Goes-E / GOES-W) for early fire detection;
- Development of a fire Application for public / law enforcement use to provide info to the community;
- Fire towers / camera developments towards early detection and “sensor web” considerations.
- Swarm / sensor web (Sreeja Nag) for fire disaster monitoring from small sats;
- Geocollaborate cross-platform data sharing system;
- NASA UTM and using the fire scenario as a test bed for UAS low altitude integration into airspace.