

Berkeley Fire Research Workshop Fire in the Environment

May 9, 2019 | Sibley Auditorium, Bechtel Hall, UC Berkeley

AGENDA

9:00 AM Welcome

Dean Tsu-Jae King Liu (College of Engineering), Dean David Ackerly (College of Natural Resources), and Associate Lab Director Susan Hubbard (Earth and Environmental Sciences Area)

Organizers' welcome and orientation to the day: Margaret Torn

9:10 AM Climate and Fire in California (Chair: Lara Kueppers)

1. Maggi Kelly, Remote sensing in support of fire modeling
2. Brandon Collins, Drivers of large fire activity in northern California
3. Bill Collins, Climate and climate change
4. Larry Dale, Energy and fire

9:50 AM Discussion

10:15-10:35 AM Break

10:35 AM Fire, Carbon, and Water (Chair: Scott Stephens)

1. John Battles, Fire and terrestrial carbon in California
2. Bill Riley, Ecosystem and fire modeling
3. Michelle Newcomer, Water quality
4. Scott Stephens, Fire and water in the Sierra Nevada

11:15 AM Discussion

11:40 AM Breakout sessions (Introduction: Margaret Torn)

12:00 PM: LUNCH and Breakouts

Grab a lunch (provided), head to breakout (12:15-1:15).

1:20 PM Quick report on breakouts

1:30 PM Engineering Technologies (Chair: Tarek Zohdi)

1. Carlos Fernandez-Pello, The science of combustion
2. Khalid Mosalam, Infrastructure and buildings in emergencies
3. Mark Mueller, Frontiers in UAV technology
4. Tarek Zohdi, Next generation real-time fire simulation technologies

2:10 PM Discussion

2:35 PM Wrap up. Scott Stephens and Tarek Zohdi

Adjourn formal workshop. Lounge available for continued discussions until 3:30pm

Berkeley Fire Research Workshop

Fire in the Environment

FIRE BREAKOUT TOPICS (downselect to 6)

- 1. Health and Pollution** (Lead: John Balmes)
- 2. Climate Change Adaptation** (Lead: Matt Potts)
- 3. Fire on Parks and Public Lands** (Lead: Jon Jarvis)
- 4. Energy and Infrastructure** (Lead: Max Wei)
- 5. Before the Fire: Managing Risks** (Lead: Van Butsic)
- 6. After the Fire: Carbon and Water, Impacts, Policy, Modeling** (Leads: Daniel Sanchez and Erica Woodburn)
- 7. Remote Sensing, Novel Platforms, New Technologies** (Leads: Robinson Negron-Juarez and Carl Pennypacker)
- 8. During the Fire: Structures, Detection, Monitoring, Response**

Breakout Rooms

Garbarini Lounge, outside Sibley Auditorium (holds 3 groups)

210 McLaughlin (available 11:30-1:30)

317 McLaughlin (available 11:30-1:30)

240 Bechtel (available 12-2pm)

Workshop Co-chairs: Scott Stephens, Margaret Torn, and Tarek Zohdi

This Workshop Generously Supported by UC Berkeley and Berkeley Lab.



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