

## **Lightning Talks: Fire Science**

**A Research Networking Event Hosted by the Oregon Research Development Working Group**

Friday, February 4, 2pm – 3:30 pm

### **Hosts:**

Kate Petcosky-Kulkami  
University of Oregon  
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Susan Emerson  
Oregon State University  
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Eric Dickey  
Western Oregon University  
[edickey@wou.edu](mailto:edickey@wou.edu)

### **List of Presenters:**

#### **Session 1: Wildfire Monitoring and Modeling**

Pat Bartlein (for Dan Gavin, Melissa Lucash and Lucas Silva)  
[bartlein@uoregon.edu](mailto:bartlein@uoregon.edu)

“Fire, Climate and Environmental Change Research”  
University of Oregon, Geography Department  
Fire, Climate and Environmental Change Research

Markus Allgaier

[markusa@uoregon.edu](mailto:markusa@uoregon.edu)

“Optical sensors for quantifying the spatial distribution and melt-enhancement through light-absorbing particles in the Oregon Cascades snowpack”  
University of Oregon, Physics

Doug Toomey

[drt@uoregon.edu](mailto:drt@uoregon.edu)

“ALERTWildfire, Emergency Communications, and Multi-Hazards Monitoring and Alerting”  
University of Oregon, Earth Sciences  
Oregon Hazards Lab

David Szpakowski

[szpakowskid@mail.wou.edu](mailto:szpakowskid@mail.wou.edu)

“GIScience and Fire”  
Western Oregon University, Earth and Environmental Science

David Blunck

[David.Blunck@oregonstate.edu](mailto:David.Blunck@oregonstate.edu)

“The spread of wildfires by firebrands, what every homeowner should know”  
Oregon State University, Mechanical, Industrial, and Manufacturing Engineering

Daniel Leavell

[Daniel.Leavell@oregonstate.edu](mailto:Daniel.Leavell@oregonstate.edu)

“Fire Management Degree for the College of Forestry”  
Oregon State University, Forest Engineering, Resources & Management Outreach and Engagement

## Session 2: Impact of Wildfire: Social, Ecological, and Public Health Research

Jacob Powell

[jacob.powell@oregonstate.edu](mailto:jacob.powell@oregonstate.edu)

“Vegetative fuel breaks in agriculture”

Oregon State University Extension Service, Crops and Soil Science

Yong Chen

[yong.chen@oregonstate.edu](mailto:yong.chen@oregonstate.edu)

“Regional economic impacts of natural disasters”

Oregon State University, Applied Economics

Lauren Ponisio

[lponisio@uoregon.edu](mailto:lponisio@uoregon.edu)

“The effect of high-severity wildfires on plant-pollinator community assembly & disease dynamics”

University of Oregon, Biology

Institute for Ecology and Evolution, Data Science Initiative

Diana Rohlman

[diana.rohlman@oregonstate.edu](mailto:diana.rohlman@oregonstate.edu)

“Wildfire Smoke and Infant Health”

Oregon State University, Environmental and Occupational Health

Pacific Northwest Center for Translational Environmental Health

Kelly Gleason

[k.gleason@pdx.edu](mailto:k.gleason@pdx.edu)

“Intersections between fire and snow”

Portland State University, Environmental Science and Management

Aaron Groth

[aaron.groth@oregonstate.edu](mailto:aaron.groth@oregonstate.edu)

“Revisiting Coast Fire History”

Oregon State University Extension Service, College of Forestry

Regional Fire Specialist, Coast

### **Slides and Recording:**

The presentation slides and a recording of the event and chat can be found in this [BOX FILE](#)

### **Additional Resources:**

Jonathan Fink  
Portland State University  
Cascadia Wildfire and Urban Smoke Working Group  
<https://sites.google.com/pdx.edu/cascadiawildfireandurbansmoke/webinar-schedule>

Spring Creek Project  
Oregon State University  
Lecture series  
Lookout: Envisioning Futures with Wildfire  
<https://liberalarts.oregonstate.edu/feature-story/lookout-envisioning-futures-wildfire>.

Bart Johnson  
University of Oregon  
FireNet: Adaptation through Collaboration: <https://firenet.uoregon.edu/>  
“3 wildfire lessons for forest towns as Dixie Fire destroys historic Greenville, California.”  
<https://theconversation.com/3-wildfire-lessons-for-forest-towns-as-dixie-fire-destroys-historic-greenville-california-165718>

Torsten Kjellstrand  
University of Oregon  
“Life in a Flammable Forest: Oregon’s McKenzie River Valley recovers from the Holiday Farm Fire of 2020.” <https://sciencestory.uoregon.edu/>