



Poster Presentations

SOCIAL SCIENCE AND LEARNING

1. Understanding wildfire science use and needs in Oregon and Washington

Chad Kooistra

2. Learn and Publish Courses Online via the Fire Research and Management Exchange System (FRAMES) Online Course System

Wilson, Gina M., Research Web Developer, Northwest Knowledge Network, University of Idaho

3. Prescribed Fire Council Characteristics, Priorities, and Needs

Fawcett, Jennifer E., Extension Associate, North Carolina State University

4. The Interagency Fuels Treatment Decision Support System (IFTDSS)

Hyde, Josh, Fire Research Scientist, University of Idaho

SMOKE

5. Smoke Management Information Resources on the FRAMES Emissions and Smoke Portal

Hyde, Josh, Fire Research Scientist, University of Idaho College of Natural Resources

6. Detection and Inventory of Intense Pyroconvection from New Generation Geostationary Sensors

Peterson, David, PhD, Meteorologist, Naval Research Laboratory, Monterey, CA

7. A Method to Mitigate Satellite-Based Fire Sampling Limitations in Deriving Biomass Burning Emissions

Jun Wang

8. CALIOP-based Biomass Burning Smoke Plume Injection Height

Soja, Amber, Ph.D., Assoicat Research Scientist, NIA / NASA LaRC

9. Characterization of Volatile Organic Compounds (VOCs) from North American Wildfires and Agricultural Fires during NASA Airborne Missions and Fire Lab Experiments

Blake, Nicola, PhD, Project Scientist, University of California, Irvine

10. Fire Emission Measurements Using Lightweight Sensors and Samplers on Unmanned Aerial Systems

Brian Gullett, Ph.D., Senior Research Engineer, U.S. EPA/ORD

11. NWCG Smoke Committee (SmoC)

David Mueller

FIRE AND FUEL MANAGEMENT

12. BLM and Fuels Management

David Mueller

13. **Pre- and post-burn fuel characterization and tree mortality assessment for the Forest Resiliency Burning Pilot**
Jim Cronan
14. **Lolo National Forest Wildfire Risk Assessment**
Anne RysSikora
15. **Lolo National Forest Wildfire Response 2017**
Anne RysSikora
16. **Lolo National Forest Hazardous Fuels Reduction - Reducing Threat to Communities**
Anne RysSikora, Lolo National Forest Fire Planner
17. **An Assessment of High-Cost Wildfires in Relation to the Native Range of Ponderosa Pine for the Eleven Western States (2000-2016)**
Panunto, Matthew, Ecologist, US Forest Service
18. **Large Tree Mortality in Fuels-Treatment Projects in Central Oregon**
Alison E. Dean
19. **Monitoring Medusahead and Prescribed Fire on Crooked River National Grassland**
Alison E. Dean
20. **A National Position on Prescribed Burning**
Sparkes, Deb, Senior Project Officer, AFAC
21. **LANDFIRE MoD-FIS: Near real-time monitoring of fuel conditions**
James (Jim) Napoli
22. **Post-Harvest Fuel Loading and Other Ecological Effects Related to Biomass Harvest Variability from Forest Restoration Treatments in the Southwest**
Worley-Hood, Graham, Student, University of Montana
23. **LiDAR as a Tool for Assessing Hazard Fuel Reduction Projects**
Julia Olszewski, Master's Student, Oregon State University, Forest Engineering and Resource Management
25. **Human Cognition and Wildland-Fire Decision Making**
Van V. Miller and Kurt H. Loess
26. **Fuel Treatment Monitoring on the Kenai Peninsula, Alaska**
Lisa Saperstein, Regional Fire Ecologist, US Fish and Wildlife Service
27. **Vegetation and Bird Monitoring in Tundra Burns on the Yukon Delta National Wildlife Refuge, Alaska**
Lisa Saperstein, Regional Fire Ecologist, US Fish and Wildlife Service
28. **Comparison of two methods for quantifying coarse surface fuel loading**
Katelynn J. Bowen, Forester, Mark Twain National Forest

FIRE BEHAVIOR

29. **The Canadian Fire Information Toolbox: International Application of the FWI System**
Jurko, Natasha, Geo Spatial Fire Technologist, Canadian Forest Service-Natural Resources Canada
30. **Canadian Conifer Pyrometrics - a New Empirical Fire Spread Modelling Scheme**
Daniel Perrakis
31. **Fire Regime Analysis of Army Garrison Camp Williams, Utah**
Alexander, Martin, PhD, RPF, Former Full Adjunct Professor, Department of Wildland Resources, Utah State University

32. Wildfire Behavior Case Study of the 2010 Machine Gun Fire, Army Garrison Camp Williams, Utah

Alexander, Martin, PhD, RPF, Former Full Adjunct Professor, Department of Wildland Resources, Utah State University

33. Fuels, fire behavior, and fire effects monitoring on active wildfires – support for Incident Command Teams, land managers, and fire scientists

Vaillant, Nicole, Fire Application Specialist, USDA Forest Service, Wildland Fire Management Research, Development & Application Program

34. Wind Tunnel Measurements of Gas Phase Pyrolysis Products from Southern Wildland Fuels using Extractive Infrared Spectroscopy

Oeck, Ashley, Post Bachelors Research Associate, Pacific Northwest National Laboratory

FIRE ECOLOGY

35. Post-fire Propagule Availability Following Short Interval Fires in California Closed-Cone Conifer Forests

Agne, Michelle, Graduate Student, University of Washington

36. How do fuel treatments impact trees and seedlings in a ponderosa pine forest 1 year vs 9 years post-fire?

Jessie Dodge

37. Assessing post-wildfire conifer regeneration: Validation of a non-destructive seedling aging method

Mangini, Emily, Student, University of Idaho

38. What We Know About Mountain Big Sagebrush Fire Ecology, Postfire Recovery Time, and Fire Regimes

Innes, Robin, Ecologist, Missoula Fire Sciences Laboratory

39. Spatial Characteristics of Burn Severity Patches and Effects on Post-Wildfire Conifer Regeneration in Ponderosa Pine Forests

Hammond, Darcy H., Graduate Research Assistant, Department of Forest, Rangeland, and Fire Sciences, College of Natural Resources, University of Idaho

40. Is a new invasive species, *Ventenata dubia*, altering fire regimes and native plant communities?

Tortorelli, Claire, Graduate Student, Oregon State University

41. Why do we continually do the things we do? Help wanted in changing a mindset about prescribed fire in the South

Hermann, Sharon, PhD, Assistant Professor, Auburn University Department of Biological Sciences

42. Building Social-Ecological Resilience to Wildfire in the Williams Lake Community Forest, British Columbia

Copes-Gerbitz, Kelsey, PhD Student, University of British Columbia

43. The Big Burns Project: Biogeochemical Legacies of Wildfire in Subalpine Forests of the Northern Rocky Mountains

Wolf, Kyra, Graduate Research Assistant, University of Montana

44. Relationship of Soil Type and Burn Severity to Post-Fire Vegetation Response

Audrey MacLennan, Master's Student, Oregon State University, College of Forestry, Forest Engineering, Resources and Management Department

45. Wildflowers and Post-Fire Restoration

Gucker, Corey, Writer and Program Support Assistant, University of Nevada, Reno

46. Ecotoxicological Effects of Wildfire Ash from Forest and Shrubland Catchments.

Doerr, Stefan, PhD, Professor of Physical Geography, Swansea University

47. Downstream legacy effects on water quality and aquatic ecology after wildfire in large river systems: The critical importance of fine sediment-phosphorus dynamics

Mike Stone

48. The Transformation and Mobilization of Water-Soluble Soil Organic Carbon and Nitrogen from Thermally-Altered Surface Soils

Yun Yu, Environmental, and Architectural Engineering, University of Colorado Boulder

FIRE SEVERITY

49. Do You CBI What I See? Relationships among Multiple Field Measures of Burn Severity in the Interior PNW and US Northern Rockies

Saberi, Saba, University of Washington

50. Do trends in climate influence the increase in area of high-severity wildfire in the southwestern, US from 1984 to 2015?

Mueller, Stephanie, Graduate Student, Northern Arizona University

51. Effects of Wildfire on Soil Organic Matter and Source Water After 14 Years

CHEN, HUAN, PhD, Post-doctoral Research Associate, Clemson University

52. Mechanisms of post-fire water repellency degradation

Ekaterina Rakhmatulin, Doctoral Student, UC Berkeley Civil and Environmental Engineering

HAZARD ASSESSMENT

53. Physical characteristics, chemical composition and water contamination potential of wildfire ash from different ecosystems

Doerr, Stefan H. PhD, Professor, Swansea University (UK)

54. Catchment-scale validation of a physically-based, post-fire runoff and erosion model

Quinn, Dylan, Graduate Research Assistant, University of Idaho

55. Evaluating Satellite Microwave Sensors for Fire Danger Assessment in Boreal and Arctic Regions

Miller, Mary Ellen PhD, Research Engineer

56. The impact of US National Fire Danger Rating System (NFDRS) 1-day forecast accuracy on concurrent fire activity.

Walding, Nicholas, PhD Candidate, University of Exeter

57. Evaluating fire danger rating indices.

Patrick Freeborn

Remote Sensing

58. A Comparison of Machine Learning Algorithms for Hyperspatial Mapping of Post-Fire Effects

Student

59. Evaluation of Image Spatial Resolution for Machine Learning Mapping of Wildland Fire Effects

Student

60. Post-Fire Effects Landsat Mapping with Artificial Intelligence Trained from sUAS Imagery

Student

61. Connecting Rural Abandonment and Wildfire in Mallorca, Balearic Islands, Spain: Quantifying spatial changes in land-use and fuels using remote sensing techniques

Grant Snitker, Doctoral Student, Arizona State University, School of Human Evolution and Social Change

62. Assessing the flammability of boreal broadleaf forest patches in interior Alaska

Maija Wehmas, Master's Student, University of Alaska Fairbanks, School of Natural Resources and Extension

