



## *Yosemite Fire Science Symposium*



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## Yosemite Fire Science Symposium

The purpose of the Symposium is to provide a venue for researchers to communicate their recent research results on to park staff, land managers throughout the Sierra Nevada, and interested stakeholders.

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**Yosemite National Park  
Resources Management and Science  
Fire Management**

For additional information please contact:  
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**April 27 & 28, 2010  
8 AM — 5 PM  
Garden Terrace Room,  
Yosemite Lodge**

**Tuesday April 27, 2010**

**Garden Terrace Room, The Yosemite Lodge**

**8:00 – 8:20**

***Welcome & ~Introductions, Logistics & Moderation***

Niki Nicholas, Chief, Resources Management & Science, Yosemite NP

Kelly Martin, Fire Management Officer, Yosemite NP

Joe Meyer, Physical Science and Landscape Ecology, Yosemite NP

**8:20 – 8:50**

***History of Fire Management at Yosemite***

Jan van Wagtenonk, Emeritus, U.S. Geological Survey

**8:50 - 9:20**

***Fire Regimes, Forest Changes, and Simulated Vegetation Management in Yosemite Valley***

Alan Taylor, Professor, Pennsylvania State University

**9:20 - 9:40**

***Fire, Fire History, and Black Oak in Yosemite Valley***

Bill Kuhn, Landscape Ecologist, YNP

**9:40 - 10:00**

***Traditional Fire Practices***

Tony Brochini, President, American Indian Council of Mariposa County

**10:00 - 10:15** *BREAK - Please return promptly!*

**10:15 - 10:45**

***Cumulative Fire Severity of Multiple Fires over a 36-year Period.***

J. van Wagtenonk, Emeritus, USGS Yosemite Field Station

**10:45 - 11:15**

***Invasive Plants and Fire***

Matt Brooks, Director, USGS Yosemite Field Station

**11:15 - 11:25**

***Update on Research in Progress***

Phil van Mantgem, USGS Redwoods Field Station

**11:25 - 11:35**

***Forest Structure and Fuels Vary Active-Fire Stands***

Jamie Shields, UC-Davis

**11:35 - 11:45**

***Using Landsat and LiDAR to Refine Fire Management Objectives***

Jim Lutz, Research Associate, University of Washington

**11:45 - 1:00** *LUNCH- Please return promptly!*

**1:00 - 1:30**

TBD

**Tuesday April 27, 2010 cont'd**

**1:30 - 2:00**

***Fuel Deposition Rates of Montane and Subalpine Conifer***

Peggy Moore, Ecologist, USGS Yosemite Field Station

**2:00 - 2:30**

***1911 Project: "Subjective Reconstruction of Forest Tree Populations using Historic Timber Inventory Data"***

Rick Everett, Research Associate, University of California, Berkeley

**2:30 - 3:00**

***Lodgepole Fire History***

Tony Caprio, Fire Ecologist, Sequoia & Kings Canyon NP

**3:00 - 3:15** *BREAK- Please return promptly!*

**3:15 - 3:45**

***Prescribed Fire Effects in the Giant Forest: Is 25 Years of Continuous Monitoring Long Enough to Have Learned Anything?***

Phil van Mantgem, Research Ecologist, USGS Redwood Field Station

**3:45 - 4:15**

***Fire Effects on Forest Carbon Stocks and Emission Inventories***

Leland Tarnay, Physical Scientist, Yosemite NP

**4:15 - 4:25**

***Interacting Fires and Stand Replacement***

Kent van Wagtenonk, Fire GIS Specialist, Yosemite NP

**4:25 - 4:35**

***Post-fire Vegetation Monitoring in the Southern Sierra Nevada Province***

Marc Meyer, Southern Sierra Nevada Province Ecologist, U.S. Forest Service

**4:35 - 5:00**

TBD

**Wednesday April 28, 2010**

**Garden Terrace Room, The Yosemite Lodge**

**8:00 - 8:15**

***Welcome new attendees, Day 1 recap***

Joe Meyer, Physical Science and Landscape Ecology, Yosemite NP

**8:15 - 8:45**

***Carbon Strategies - Managing Fire Risk and Forest Carbon***

Matthew Hurteau, Research Associate, Northern Arizona University

**8:45 - 9:15**

***Fires Regimes and Changes in Forest Structure and Carbon Storage in Old-growth Mixed Conifer Forest Landscapes, Yosemite National Park***

Alan Taylor, Professor, Pennsylvania State University

**9:15 - 9:45**

***Yosemite Forest Dynamics Plot and Fire***

Jim Lutz, Research Associate, University of Washington

**9:45 - 10:15**

***Prehistoric Fire Emissions from California Forests***

Scott Stephens, Professor, University of California, Berkeley

**10:15 - 10:30** *BREAK- Please return promptly!*

**10:30 - 11:00**

***Impacts of Fire on Air Quality***

Leland Tarnay, Physical Scientist, Yosemite NP

**11:00 - 11:30**

***BlueSky Playground - a new method for interactively exploring smoke impacts***

Sean Raffuse, Fire Sciences Program Coordinator, Sonoma Technology

**11:30 - 12:00**

***Climate Change Impacts on Wildfire in the Sierra Nevada***

Tony Westerling, Professor, University of California, Merced

**12:00 - 1:00** *Lunch- Please return promptly!*

**1:00 - 1:45**

***Stand-replacing Patches Within a 'Mixed Severity' Fire Regime***

Brandon Collins, Research Associate, University of California, Berkeley

**1:45 - 2:30**

***What is Adaptive Management?***

Gus Smith, Fire Ecologist, Yosemite NP

**2:30 - 2:45** *BREAK- Please return promptly!*

**2:45 - 3:30**

***Other Perspectives on Adaptive Management***

TBD

**3:30 - 4:00**

***Comments by Interdisciplinary Panel***

Interdisciplinary Panel

**4:00 - 4:45** *Group Discussion*

**4:45 - 5:00**

***Concluding Thoughts***

Joe Meyer, Physical Science and Landscape Ecology, Yosemite National Park