

# Appendix: Presentations for Which Papers Were Not Submitted for These Proceedings

## Invited Speakers

Susan G. Conard, USDA Forest Service, Washington Office  
Joe Ferguson, USDA Forest Service, Washington Office  
Michael C. Long, State Forester, Florida  
William F. Paleck, USDI National Park Service, retired  
Sally Shaver, U.S. Environmental Protection Agency, North Carolina  
Karl E. Weick, Professor of Organizational Behavior and Psychology, University of Michigan, Ann Arbor

## Panels

*Extreme Fire Behavior—What is It?*

**Moderator:** Robert Ziel, Michigan Department of Natural Resources

**Panelists:** Jack Cohen, Research Forester, USDA Forest Service Research  
Mark Finney, Research Forester, USDA Forest Service Research  
Brian Potter, Research Meteorologist, USDA Forest Service  
John Saltenberger, Fire Weather Program Manager, Northwest  
Interagency Coordination Center  
Tim Sexton, Wildland Fire Use Program Manager, USDA Forest  
Service

*The Human Element in Forest Fire Operations: Thinking, Deciding, Acting, Learning*

**Moderator:** Dave Thomas, Consultant, Renoveling; USDA Forest Service (retired)

**Panelists:** Riva Duncan, Deputy Forest Fire Management Officer, USDA  
Forest Service  
Paula Nasiaka, Center Manager, Wildland Fire Lessons Learned  
Center  
Larry Sutton, Fire Operations Risk Management Officer, USDA  
Forest Service  
Jennifer Thackaberry Ziegler, Assistant Professor, Purdue University  
Karol E. Weick, Professor, Organizational Behavior and Psychology,  
University of Michigan

## Workshops

Fire Regime Condition Class: Concepts, Methods, and Applications

*Stephen Barrett*

WindWizard: A New Tool for Fire Management Decision Support

*Rick Stratton, Jason Forthofer, Kyle Shannon*

BehavePlus Fire Modeling System

*Patricia L. Andrews, Tobin Kelley*

Mapping Fire Regime Condition Class: Using LANDFIRE Data and the FRCC Map Tool

*Wendel Hann, Morgan Pence*

Use of FlamMap for Fire and Fuels Planning

*Mark A. Finney, Rob Seli, Rick Stratton*

FLAME, Fire Science for the Fireline

*Jim Bishop*

From Start to Finish: Creating an Effective Outreach Program for Educators

*Christine Denny*

FireFamily Plus

*Larry Bradshaw, Stuart Brittain, Luck Shelvan*

Advanced Meteorology for Fire Behavior Analysis

*John Saltenberger*

Smoke Monitoring Techniques

*Andy Trent*

Measuring Canopy Fuels and Assessing Crown Fire Potential

*Joe Scott, Elizabeth Reinhardt*

The Canadian Forest Fire Danger Rating System: Interpretation and Implementation Outside of Canada

*Mike Wotton, Nathalie Lavole, Grant Pearce*

A Suite of Fuel of Fuel Management Tools: Fuel Characteristic Classification System, Natural Fuels Photo Series, and Consume 3.0

*Roger D. Ottmar, Susan J. Prichard, Clint S. Wright, Bob Vihnanek*

BlueSkyRains

*Miriam Rorig, Sim Larkin, Robert Solomon*

## Oral Presentations

Evaluating the Benefits and Costs of Project Level Fuel Treatments

*Karen Abt, Alan A. Ager, Robert J. Hagggett Jr., Eric D. Twonbly, Jeffrey P. Prestemon, Mark Finney, Aaron M. Ortego*

A Fire Spread Model for Calculating Emissions Productions from Prescribed Burns

*Gary Achtemeier*

Evaluation of Methods to Represent Local Winds in Mountainous Areas of Eastern United States in Support of Prescribed Burning and Wildfire Suppression

*Gary Achtemeier, Warren E. Hellman, Scott Goodrick, Joseph J. Charney, Bret Butler, Xinndi Bian*

Field Validation of a Model to Predict the Movement of Smoke Along the Ground at Night

*Gary Achtemeier*

- On the Roles of Prescribed Burn “Engineering” on Degraded Air Quality Over an Urban Area of 18 March 2006—Experimental Results with Daysmoke  
*Gary Achhtemeier, Scott A. Goodrick, Yongqiang Liu, William Jackson*
- Fire Emissions, Regional Haze, and Air Quality in the Upper Midwest  
*Gordon Andersson*
- Examination of Fire Behavior and Fire Danger Rating Systems in the Context of a Temporal-Spatial Framework  
*Patricia L. Andrews*
- National Wildland Fire Weather Needs Assessment  
*David Andrus, Samuel P. Williamson, Robert J. Dumont*
- Smoke on the Horizon—The Future of the Partnership  
*Chadwick Avery*
- Getting Fire on the Ground  
*J.J. Bachant-Brown*
- Factors Influencing Ponderosa Pine Seedling and Sapling Mortality after Prescribed Burns in the Black Hills, South Dakota  
*Mick Battaglia, Frederick W. Smith, Wayne D. Shepperd*
- Prescribed Burning Impacts on Urban Air Quality  
*Karsten Baumann, Eric S. Edgerton, Sangill Lee, James J. Schauer, Donald R. Blake, Luke P. Naeher, John J. Brent*
- Assessing High Reliability Practices in the Wildland Fire Community  
*Anne Black, Michhelle Barton, Deirdre Dether*
- Prescribed Fire Lessons Learned Center  
*Anne Black, Paula Nasiatka, Deirdre Dether*
- The Nez Perce Tribe Go/No-Go Decisionmaking Process  
*Andrea Boyer*
- FireFamily Plus, Version 4  
*Larry Bradshaw*
- What is a Fond? And Why Does it Burn GREEN!  
*James Brenner, Tim Elder, Deborah Hanley*
- A Climatology of North American Fire Danger from the North American Regional Reanalysis Dataset  
*Timothy Brown, Matt Jolly, Beth L. Hall*
- Verification of North Carolina Mixing Height Forecasts for Smoke Management  
*Timothy Brown, Gary Curcio, Beth L. Hall, Doug Pibal*
- What is the Value of Climate Information for Smoke Management?  
*Timothy Brown, Pete Lahm*
- Future Range of Variability: Landscapes as Probabilities  
*Teresa Burcsu, Miles A. Hemstrom, James Merzenich, Allison Reger*
- External Human Factors in Incident Management Team Decisionmaking  
*David Calkin, Janie C. Canton-Thompson, Krista M. Gebert, Brooke Y. Thompson, Geoffrey H. Donovan, J. Greg Jones*

Improving Calculation of Values at Risk for Burned Area Emergency Response

*David Calkin, Kevin Hyde, Peter Robichaud*

Wildland Fire Decision Support System and Rapid Assessment of Values at Risk

*David Calkin, John Szymoniak, Mark Finney, Kevin Hyde*

Field Evaluation of a Next-Generation Dead Fuel Moisture Model versus Currently Used Dead Fuel Moisture Algorithms in the National Fire Danger Rating System

*J.D. Carlson, Larry S. Bradshaw, Ralph N. Nelson Jr., Randall R. Bensch, Rafal Jabrzemski*

OK-FIRE: A Weather-Based Decision Support system for Wildland Fire Managers in Oklahoma

*J.D. Carlson, Terry G. Bidwell*

The Potential Impact of Smoke from Prescribed Burns in Southern Missouri

*Joseph Charney, Xindi Bian, Warren E. Heilman, Lesley A. Fusina*

A Sub-Grid Mixture-Fraction-Based Thermodynamic Equilibrium Model for Gas Phase Combustion in FIRETEC: Development and Results

*Michael M. Clark, Rodman R. Linn*

Fire Incident Mapping Tools

*Tim Clark*

Plume Energetics and Dynamics of Grass Fires

*Craig Clements, Zhong Shiyuan*

Examining Crown Fire Behavior with Implication for Modeling

*Jack D. Cohen, Mark A. Finney, Kara M. Yedinak*

The Home Ignition Zone Principally Determines the Potential for Wildland-Urban Interface Fire Disasters

*Jack Cohen*

Laying the Foundation for Success

*Vernon Compton*

Does Fire Behavior Change with Stand Age in Black Spruce Forest of Interior Alaska?

*James Cronan, Ann. E. Camp*

Investigating the Dynamics of Fire Behavior in Grasslands Using a Physics-Based Fire Model

*Phillip Cunningham, Rodman R. Linn*

Modeling Buoyant Plumes from Wildland Fires: Fundamentals and Applications

*Phillip Cunningham, Scott L. Goodrick, Michael J. Reeder*

Using a PC Based Smoke Plume Dispersion Model (VSMOKE) and the National Fire Danger Rating System in Support of Go-No GO Decisions for Prescribed Fire

*Gary Curcio*

Development and Implementation of a National Fuel Moisture Database

*Edward Delgado, Shelby I. Sharples, Annie Brown, Chuck Buescher*

Facts About Fire-Increasing Public Awareness and Support of Prescribed Burning through the Fire in Florida's Ecosystems Program

*Christine Denny, James Brenner*

Process Modeling of First Order Fire Effects: Science and Application

*Matthew Dickinson, Bret Butler, William Massman, Elizabeth Reinhardt, Anthony Bova, Todd Engstrom, Kathleen Kavanagh, Kirsten Stephen, Alistair Smith, Robert Kremmens*

Tree Heating in Surface Fires and the Injury That Results

*Matthew B. Dickinson, Bret W. Butler, Anthony S. Bova*

Ignition and Flame Travel on Realistic Building and Landscape Objects in Changing Environments

*Mark A. Dietenberger*

Fire History of Red Pine-Dominated Forests of Seney Wildlife Refuge, Upper Michigan

*Igor Drobyshch, Charles P. Goebel, David Hix, Marie Semko-Duncan, Greg Corace III*

Experiments on Fire Spread in Discontinuous Fuelbeds

*M.A. Finney, J.D. Cohen, I.C. Grenfell, K.M. Yedinak*

Approving Prescribed Burns in Arizona

*Mark Fitch*

Applications of a Fire Acceleration Model for Firefighters Safety

*Jo Ann Fites-Kaufman*

In Situ Fire Wildland Fire Behavior, Fuels and Immediate Postfire Effects

*Jo Ann Fites-Kaufman, Alicia Reiner*

Collaborative Process for Priorization of Hazard Fuel Reduction Needs

*Eric Geisler, James Twoteeth, Frank Roberts*

Effects of Single Season Mechanical and Prescribed Fire Treatments in Restoring Inland Pitch Pine Scrub Oak Barrens

*Neil Gifford, G. Thoman Dooley, Jason Bried, Craig Kostrzeski*

A Prototype Fire Activity Database for Tracking Prescribed Fire Emissions

*Scott Goodrick*

Smoke Screening with Google Earth

*Scott Goodrick*

Silvicultural Smoke Management and the "Go/No Go" Decision Process in Washington

*David Grant*

Cleared for Take-Off: Smoke Management and the Military Mission

*Sonny Green, Marty Martin*

The History and Role of Prescribed Fire Councils: a Success Story

*Lane Greene*

Smoldering Combustion of Biomass Fires—Modeling and Experimental Results

*Carlos Gurgel Veras*

Institutional Factors Affecting the Use of Decision Support Tools and Ecological Data in Fuels Management at the Project Planning Level in the U.S. Forest Service  
*Erick Hakanson*

Fire Situation Reporting  
*Deb Hamill, Marco Perea, Charlie Leonard*

Florida Fire Season 2006  
*Deborah Hanley*

Comparison of Fire Regime Condition Class Results  
*Wendel Hann, James Smith, Ted Tower, Douglas W. Havlina, James Smith*

A Suite of Multiscale Remote Sensing Approaches for Measuring Thermal Characteristics and Their Relationships to Associated First-Order Fire Effects  
*Colin Hardy*

National Seasonal Assessment Workshops  
*Robyn Heffernan*

Evaluating Wildland Fire Hazard and Prioritizing Vegetation and Fuels Treatments—A Multiscale Decision Support System  
*Paul Hessburg, Keith M. Reynolds, Robert E. Keane*

Assessing the Role of the Fine Scale Heterogeneity in Fuels and Fire Behavior in a Low-Intensity Surface Fire Regime  
*John Hiers, E. Louise Loudermilk, Wendell P. Cropper Jr., K. Clint Slatton, Joseph J. O'Brienn, Robert J. Mitchell*

Where to Burn? A GIS-Based Prioritization Tool  
*Kevin Hiers*

Application of the Ventilation Index in Smoke Management  
*Jeanne L. Hoadley*

Application of Online Fire Knowledge Management Tools in the United States  
*William Hubbard, Greg Gollberg, Ken Outcalt, Jennifer Pollock*

The Future of Fire Regime Condition Class—Where We Have Been, Where We Need to Go  
*Menakis James, Wendal Hann*

The Influence of Live Fuels on the Rothermel Surface Fire Spread Model  
*William Jolly*

Regional Changes in Effective Growing Season Lengths Under Future Climate Scenarios  
*William Jolly*

A Cost Effectiveness Analysis of Preventative Mitigation Options for Wildland Urban Interface Homes Threatened by Wildfire  
*J. Greg Jones, Keith D. Stockman, David E. Calkin*

Analysis of Fuel Loading-Variability and Burn Severity within the Landscape-Scale of Grand Teton National Park-Bridger Teton National Forest, Wyoming: Integration of Field Data, Geospatial Information, and Geospatial Statistics

*Mohammed Kalkhan, Karl E. Brown*

How to Keep Plantations from Burning: the Efficacy of Fuels Reduction Treatments in a Sierra Nevada Pine Plantation

*Leda Kobziar, Scott L. Stephens, Joe R. McBride*

Different Species, Different Patterns: the Predictors of First-Order Fire Mortality in Seven Trees of the Sierra Nevada Mixed-Conifer Forest

*Leda N. Kobziar, Jason Moghaddas, Scott L. Stephens*

Fire Spread Model Applied to Prescribed Burns in Chaparral

*Eummo Koo, Patrick J. Pagni, Scott L. Stephens, David R. Weise*

The Studies to Support a Fire Danger Rating System in Turkey

*Omer Kucuk, Bulent Saglam, Bahar Dinc Durmaz, Ismail Baysal*

Fire History and Vegetation Change in a Network of Pine-Oak Stands in the Central Appalachian Mountains

*Charles Lafon*

The BlueSkyRAINS West Project: Lessons Learned and Plans for BlueSky

*Narasimhan Larkin, Susan O'Neill, Robert Solomonn, Sean Raffuse, Dana Sullivan*

Verification of the Lightning Ignition Efficiency Map Using Lightning Discharge and Fire Occurrence Data from the Northern Rockies in 2003

*Don Latham, Paul Sopko*

Simulated Fire Behavior in Shrubs and Canopies Using HIGRAD/FIRETEC

*Rodman R. Linn, J. Winterkamp, F. Pimont, J. Dupuy, D. Weise, J. Sauer, J. Canfield*

Simulation and Real-Time Prediction of Air Quality Effects of Prescribed Burns in Florida with SHRMC-45

*Yongqiang Liu, Gary Achtemeier, Scott Goodrick*

Developing a New Monitoring Tool: the Integration of FEAT and FIREMON

*Duncan Lutes, Nate Benson, Martha Isbister, Kim Johnson, Austin Streetman, Carter Barnes, John Caratti*

The Montana/Idaho Prescribed Burn Reporting System

*Lee Macholz, Carol A. Seielstad, Eric Tangedahl, Haiying Liang, Limel Piao, Lloyd Queen, Don Helmbrechht, Dave Grace*

Marginal Burning in Chaparral—Experiments and Models

*Shandar Mahalingam, David R. Weise*

On the Size and Mass Distribution of Firebrands Generated from Burning Korean Pine Trees

*Samuel Manzello, Aleander Maranghides, William Mell, Yoshihiko Hayyashi, Daisaku Nii*

Firebrand Generation from Vegetation and the Ignitability of Fuel Beds of Firebrands

*Samuel L. Manzello*

Heat Release Rate and Mass Loss Experiments of Douglas Firs

*Alexander Maranghides, William Mell, Samuel Manzello*

Assessing the Impact of Fuel, Weather, and Fire Suppression Effort on the Area Burning by Lightning-Caused Forest Fires in Ontario

*David Martell, Hua Sun*

Daily Regional Fire Weather and Fire Behavior Graphical Products

*Chuck Maxwell, Timothy C. Stubbs*

Agricultural Burning in the Southeastern United States Detected by MODIS

*Jessica McCarty, Chris O. Justice, Stefania Korontzl*

Using Spatial Technologies to Assess Historical Fire Data Trends in Florida's Wetland Ecosystems for Improved Fire Planning and Response

*Susan McLellan, James Brenner, Jeff Vowell, Karen L. Cummins*

Numerical Simulations of Burning Vegetation: Laboratory Experiments and Crown Fires

*William Mell, Bret Butler, Alexander Maranghides, Samuel Manzello, Shankar Mahalingham*

Firespread in the Wildland Urban Interface

*William Mell, Ron Rehm, Alexander Maranghides, Samuel Manzello*

Creating a Coalition of Prescribed Fire Councils: Taking It Up a Level

*Mark Melvin, Pete Kubiak*

Building a National Coalition of Prescribed Fire Councils

*Mark Melvin, Pete Kubiak, Lane Green*

WUI Microenvironment

*Robert Meroney*

Communicating the Wildland Fire Use Message

*Punky Moore*

Spatial Modeling of Fire in Shrublands with HFire

*Max Moritz, P.E. Dennison*

Interagency Prescribed Fire Planning and Implementation Reference Guide

*David Mueller, Kim Van Hemelryck, Dan Buckley, Ed Bratcher, Gene Lonning, Dan Severson*

Fire Regimes and Management Strategies for Restoring Cascadian Whitebark Pine Ecosystems

*Michael Murray*

Organizational Tips and Tactics for Moving Forward in Wildland Fire Use

*Paula Nasiatka, Jonetta Holt*

Innovations in Fuels Management, Demonstrating Success in Treating a Serious Threat of Wildfire in Northern Minnesota

*Dennis Neitzke, Ellen Bogardus-Szymaniak, Patricia J. Johnson*

- US FS RMC: Real-Time Fire-Weather Intelligence and Smoke Forecast for the West  
*Ned Nikolov, Karl Zeller*
- Bark, Duff, and Soil Temperatures in Smoldering Duff Fires  
*Joseph J. O'Brien, J. Moran Varner, J. Kevin Hiers, F.E. Putz, Doria Gordon*
- Physiological Effects of Duff Fires on Longleaf Pines  
*Joseph J. O'Brien, J. Kevin Hiers, Kathryn Mordecai*
- Predictive Services Round Table Discussion  
*Rick Ochoa, Brenda L. Belongie, Deb Hamill, Tom A. Wordell*
- Litter and Duff Depths and Bulk Densities in the Southern United States  
*Roger Ottmar, Anne G. Andreu, Robert E. Vihnanek*
- Fuels Management Options for the Longleaf Pine Ecosystem of the Gulf Coastal Plain  
*Kenneth Outcalt, Dale G. Brockway*
- Wildfire Mapping in the 21st Century  
*Tom Patterson*
- Fuel Assessment Techniques: Technology Transfer by the National Interagency Fuels Technology Team  
*Morgan Pence, Kathy H. Schon*
- Measurements of Mass and Temperature During Ignition of Fresh Foliage  
*Brent M. Pickett, Thomas H. Fletcher, David R. Weise*
- The Fire Strike Team Concept—Getting Fire on the Ground  
*Zachary Prusak*
- Lessons Learned Information Sharing  
*John Rabin, Jennifer Smither*
- Integration and Reconciliation of Satellite Detected and Incident Command Reported Wildfire Information in the BlueSky Smoke Modeling Framework  
*Sean Raffuse, Narasimhan K. Larken, Robert Solomon, Dana C. Sullivan, Lyle R. Chinkin, Lawrence Friedl, Amber Soja*
- Updating Wildland Fire Susceptibility Index Inputs I: Change Detection and Classification and Regression Tree Analysis to Develop Surface Fire Fuel Models and Canopy Cover  
*Andrew Ralowicz, Jim Brenner, Sue McLellan, Don Charlton*
- Fire Emissions and Regional Modeling—Specific Case Studies from the WRAPs Regional Haze Modeling. How Small Fires and Plume Rise Techniques Influence Near- and Far-Field Model Results  
*David Randall, Mark J. Fitch*
- WRAP Fire Emission Tracking System  
*David Randall, Mark J. Fitch*

WRAP Seasonal Suites of Emission Reduction Techniques Developed for Implementation of Smoke Management Programs and Regional Modeling Applications (Projections)

*David Randall, Mark J. Fitch*

Salvage Logging and Fuel Treatment

*Elizabeth Reinhardt*

Expediting the Community Wildfire Protection Plan

*Cheryl Renner, Terry K. Haines, Margaret A. Reams*

Forecasting Significant Fire Potential

*Tom Rolinski*

The Hazard Mapping System—Fire and Smoke Detection Utilizing Environmental Satellites

*Mark Ruminski*

LANDFIRE: Providing Geospatial Products in Support of Fire and Fuel Management

*Kevin Ryan, Matthew G. Rollins, Matthew C. Reeves*

Effects of Fire on Conifer Survival: Practical Considerations for Fuels Treatments Projects

*Kevin Ryan*

Statewide Mapping of Fire Hazard Zones in California

*David Sapsis, Mark Rosenberg, James G. Spero, Elsa K. Hucks*

Regional Monitoring of Key Fire Weather Parameters

*Kevin Scasny*

Nomographs for Predicting Surface Fire Behavior without a Computer

*Joe Scott*

Developing Multitiered Portable Wireless Weather Monitoring Networks for Wildland Fire

*Carl Seielstad, Richard Han, Regan Zane, Carl Hartung, Saxon Holbrook, Lloyd P. Queenn, Jim Riddering*

Using Laser Altimetry-Derived Surface Roughness to Predict Coarse Woody Debris Volume in Mixed Conifer Forests

*Carl Seielstad, Eric Rowell*

Communication Strategies for Fire Management: Effective Citizen-Agency Partnerships

*Bruce Shindler, Ryan Gordon*

LANDFIRE East of the Rockies: Challenges and Responses

*James Smith, Zhi-Liang Zhu, Kevin Ryan, Wendel Hann*

How Well Does Satellite Data Quantify Fire in the United States?

*Amber Soja, Jassim A. Al-Saadl, Louis Gigliio, R. Brad Pierce, Dave Randall, Sean Raffuse, James Szykman*

Evaluation of the BlueSky smoke Modeling Framework

*Robert Solomon, Susan M. O'Neill, Sim Larkin*

A Fuel Hazard Model for Forests of the Missouri Ozark and Illinois and Indiana Interior Lowland Plateau Ecoregions

*Michael Stambaugh, Richard P. Guyette, Daniel C. Dey*

Planning for Success: Leveled Supply of Woody Biomass with Coordinated Resource Offering Protocol and Strategic Placement of Treatments

*Sue Stewart, Edmund A. Gee*

Applying Remote Mobile Weather Observations to Tactical Operations in the Wildland Fire Urban Interface

*Carter Stone, Deborah E. Hanley*

Current Status of the Ozone National Ambient Air Quality Standard Review and Potential Revision to the Air Quality Index for the New PM<sub>2.5</sub> Standard

*Susan Stone*

Burning and Mulching to Reduce High Fuel Loading in Beetle-Killed Stands: Effects of Fuel Reduction Treatments on Ectomycorrhizal Inoculum Potential

*Aaron Stottlemeyer, G. Geoff Wang, Christina E. Wells, Thomas A. Waldrop, Mac A. Callaham*

Current Operations and Ongoing Development of the BlueSky System of Smoke Impact Predictions

*Dana Sullivan, Narasimhan K. Larkin, Robert Solomon, Sean M. Raffuse, Lyle R. Chinkin, Christian D. Ovard, Lawrence Friedl*

An Investigation of Unsteady Effects on the Dynamics of Crown Fire Initiation

*Watcharapong Tachajapong, David R. Weise*

Sparks That Started the Fire

*Gary Taylor*

Capturing the Deep Smarts of Fire Behavior and Fuels Experts

*Dave Thomas, Dorothy A. Leonard, Carol Miller, Paula Nasiatka*

Effect of Fire on Ant Assemblages in Central Semi-Arid Argentina

*F. Rodrigo Tizon, Daniel V. Pelaez, Roberto M. Boo, Omar R. Elia, Mirta D. Mayor, Dolores Rodriguez-Rey*

Comparison of Real-Time Smoke Particulate Monitors

*Andy Trent*

Advancing the Understanding of Postfire Tree Death

*J. Morgan Varner*

Identification of User Errors in Modeling Fire Behavior and Effects

*J. Morgan Varner, Christopher R. Keyes*

The ClearSky Field-Burning Decision Support System

*Joseph Vaughn, Kyle Heitkamp, Rahul Jain Raghul, Charleston Ramos, Brian K. Lamb*

The National Fire and Fire Surrogate Study in Eastern Hardwoods—Early Results and Future Challenges

*Tom Waldrop, Daniel A. Yaussy*

Firebrand Review

*David Weise, Eunmo Koo, Patrick J. Pagnil, David R. Weise*

“Ecosystem Support Team”—Kindling the Flame

*Brett Williams*

Forecasting Fire Danger Indices

*Thomas Wordell, Timothy J. Brown*

I Need It and I Need It Now: Improving Predictive Services Outreach to Fire Managers

*Thomas Wordell, Heidi Bigler-Cole, Patricia L. Winter*

Meeting Predictive Services User Needs: An Assessment Survey

*Thomas Wordell, Patricia L. Winter, Heidi Bigler-Cole*

Relationships Influencing Forest Fire Occurrence in Canada

*Mike Wotton, David L. Martell*

Investigation of the Laminar Flame Assumption

*Kara Yekinak, Jason M. Forthofer, Jack D. Cohen, Mark A. Finney*

Testing and Classification of Individual Plants for Fire Behavior

*Wayne C. Zipperer, Robert H. White*

## Poster Presentations

Landscape-Level Assessment of Prescribed Fire Effects on Oak Regeneration

*Heather Alexander, Mary A. Arthur, David Loftis, Stephanie R. Green*

Use of the BehavePlus Fire Modeling System for Prescribed Fire Planning

*Patricia Andrews, Tobin M. Kelley*

BehavePlus Fire Modeling System, Version 4.0 Overview

*Patricia Andrews, Collin D. Bevins*

Modeling Temporal Dynamics to Fuels Management Treatments

*John Bailey, Masashi Konoshima*

The Development of a Grassland Fire Breaching Model

*Gregory Baxter, Martin E. Alexander, Rex Hsieh*

Fire Effects on Chaparral-Associated Mammals: Responses to Fire Severity and Distance from Unburned Edge

*Jan L. Beyers, Jay E. Diffendorfer, Wayne D. Spenser, Paul Schuette, Scott B. Tremor, Genie M. Fleming, Paul Schuette, Julio Angel Sato-Centeno*

Quantifying Burn Severity in Alaska’s Boreal Black Spruce Forest: Comparing Composite Burn Index and a Destructive Assessment Method

*Leslie Bobby*

Comparison of Live Fuel Moisture Sampling Methods for Big Sagebrush in Utah

*Annie Brown, Phillip N. Omi, Jolie Pollet*

Southeast Fire Ecology Partnership

*David Brownlie, Caroline L. Noble, Bruce Davenport, Paula Seamon,  
Kevin Robertson, Ronald E. Masters*

Determining Alaska Values for Denali Wildland Fire Use Reference Guide

*Brad Cella, Dan Warthen, Larry L. Weddle, Brian Sorbel*

Historical Fire Regimes and Fire Climatology in Utah Forests

*Linda Chappell, Peter M. Brown, Emily K. Heyerdahl, Stanley Kitchen,  
Marc H. Weber*

Tools for Estimating Contributions of Wildland and Prescribed Fires to Air  
Quality in the Southern Sierra Nevada

*Ricardo Cisneros, Haiganouch Preisler*

An Index of Crown Fire Potential Based on LIDAR Measurements

*Kenneth Clark, John Hom, Nicholas Skowronski, Steve Van Tuyl,  
Jason Cole, Matt Patterson, Matthew Duveneck*

Characterizing Moisture Dynamics for Assessing Fuel Availability in North  
Carolina Vegetation Communities

*Gary M. Curcio, Roberta A. Bartlette, James J. Reardon*

Retrospective Fire Modeling to Quantify the Cumulative Effects of Sup-  
pression

*Brett Davis, Carol Miller*

Using Fire to Restore Pine/Hardwood Ecosystems Severely Impacted by  
Southern Pine Beetle in the Southern Appalachians

*Katherine Elliott, James M. Vose, Jennifer D. Knoepp, Barton D. Clinton*

Wildland/Urban Interface of the Ancients—A Strategy for Reducing Fire  
Risk in the Canyons of the Ancients National Monument

*Allen Farnsworth, Linda C. Farnsworth*

The Fire Research and Management Exchange System (FLAMES): Technology  
in Support of Wildland Fire Research and Management

*Greg Gollberg, Jean Freeney*

Reducing Wildfire Risk in the Wildland-Urban Interface: State, County,  
and Municipal Governments' Initiatives to Protect Human Assets and  
Natural Resource Values

*Terry Haines, Cheryl R. Renner, Margaret Reams*

Fire Behavior Analysis to Evaluate the Clearance Requirements Around  
Structures

*Carol Henson, David D. Kerr*

The Effects of Architecture and Loading on Timelags in Longleaf Pine  
Needles

*Kevin Hiers, Ralph M. Nelson*

Integrating Fire Weather, Fuel Mapping and Atmospheric Science Research  
in New Jersey: National Fire Plan and Eastern LANDFIRE Prototype

*John Hom, Kenneth Clark, Steve Van Tuyl, Jason Cole, Yude Pan*

- Parcel-Based Fire Hazard Rating with Hyperspectral Imagery  
*Tonya L. Hoover, Brian Collins, Richard Burch, Carol Rick, Chris Hallford*
- Relationship of Prescribed Burning and Wildfire Occurrence at Fort Benning 1985-2006  
*Thomas F. Hutcherson, Stephen J. Hudson, Jack M. Greenlee*
- Fire Fighter Math  
*Daniel M. Jimenez, Brad J. Monnahan*
- Optimizing Spatial and Temporal Treatments to Maintain Effective Fire and Nonfire Fuels Treatments at Landscape Scales  
*Greg Jones, Woodam Chung, Janet R Sullivan, Kurt J. Krueger*
- Fuels Management and Structural Complexity: Silvicultural Alternatives for Discordant Forest Objectives  
*Christopher Keyes, J. Morgan Varner*
- Efficient Landscape Fire Risk Management: A Spatial Endogenous Risk Framework  
*Masashi Konoshima, Heidi J. Albers, John D. Bailey*
- Validation of the BlueSky Smoke Modeling Framework: Field Campaigns  
*Candace Krull, Miriam Rorig, Robert Solomon, Narasimhan K. Larkin*
- Prescribed Fire Notification in Urban Palm Beach County, Florida  
*Kraig Krum*
- The Fire Modeling Institute—Connecting Management and Research  
*Laurie Kurthh, Duncan Lutes, Jim Menakis, Jane Kapler Smith, Don Helmbrecht*
- Sensitivity of CMAQ-Daysmoke Simulations to Smoke Properties and Ambient Conditions  
*Yongqiang Liu, Gary L. Achtemeier, Scott Goodrick, William A. Jackson*
- Seasonal Response of Elk to Forest Fuels Reduction  
*Ryan Long, Janet L. Rachlow, John G. Kie*
- Predictive Services Weather Support to Prescribed Fire and Wildland Fire Use Fire Operations  
*Stephen Marien, Brenda Belongie*
- Linking State Prescribed Fire Councils as a Coalition: An Initiative to Promote Public Understanding of Rx Fire, and to Nationally Address Key Management, Policy, and Regulatory Issues  
*Mark A. Melvin, Johnny P. Stowe, Frank T. Cole, Lane Green, Peter Kubiak*
- Climate Drivers of Regional Fire Years in the U.S. Northern Rockies: Past, Present, and Future  
*Carol Miller, Emily Heyerdahl*
- Evaluating Approaches to Mapping Burn Probability: Phase I  
*Carol Miller, Marc Parisien, Mark Finney, Alan Ager*

Communicating the Wildland Fire Use Message

*Punky Moore*

The Savannah River Smoke Project—Measurements of Ground-Level PM<sub>2.5</sub> smoke Concentrations Downwind from Prescribed Burns

*Luke P. Naeher, Gary L. Achtemeier, John Blake, John Pierce, David MacIntosh*

Light Versus Litter: What Limits Understory Diversity in Unburned Xeric Longleaf Stands

*Joseph O'Brien, J. Kevin Hiers, Robert Mitchell, Rodney Will*

Compiling, Synthesizing, and Analyzing Existing Boreal Forest Fire History Data in Alaska

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