

FIFTH INTERNATIONAL FIRE ECOLOGY AND MANAGEMENT CONGRESS

*UNITING RESEARCH, EDUCATION,
AND MANAGEMENT*

**OREGON CONVENTION CENTER
PORTLAND, OREGON, USA
3-7 DECEMBER 2012**



Cover photo by **Garrett Meigs**, PhD candidate in the College of Forestry at Oregon State University

Three-fingered Jack across the B&B Fire, 2007

This image shows an Oregon Cascade volcano, Three-fingered Jack, across a large patch of high-severity fire that burned in 2003 as part of the B&B Complex near Sisters, Oregon. This was a particularly large patch of stand-replacement fire that mostly occurred in a wind-driven run on one day. Several surviving trees in the foreground provide a valuable seed source four years post-fire, when this image was taken.

Program compiled and proofread by **Tim Ingalsbee** and **Catia Juliana**

Program format and layout by **Laurie Burk**

PROGRAM FOR THE

FIFTH INTERNATIONAL FIRE ECOLOGY AND MANAGEMENT CONGRESS

Uniting Research, Education, and Management

**Oregon Convention Center
Portland, Oregon, USA
3-7 December 2012**

Hosted by:



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ABOUT THE ASSOCIATION FOR FIRE ECOLOGY

The Association for Fire Ecology (AFE) began with a small group of researchers and fire managers calling themselves the California Association for Fire Ecology (CAFE). From 1997 to 1999 CAFE held annual fire ecology conferences that kept growing in size and scope, demonstrating a rapidly growing interest in fire ecology in the western U.S. In recognition of the need for an organization to promote fire ecology and create a network of fire ecologists at a national and international scale, members of CAFE founded AFE as a 501(c)(3) nonprofit organization in 2000, and hosted the First International Fire Ecology and Management Congress.

AFE's mission is to promote fire ecology research, education, and management with the goal of furthering the knowledge, application, and use of fire in land management. Every three years AFE organizes and hosts its International Fire Ecology and Management Congress, and hosts smaller fire ecology conferences on regional or topical themes annually. AFE publishes a peer-reviewed E-journal called Fire Ecology, recognizes outstanding fire ecologists with our Lifetime Achievement and Student Achievement awards, and provides formal certifications for wildland fire professionals and academic programs.

Our members include scientists, educators, students, managers, practitioners, policymakers, and other interested citizens. AFE members are organized into regional sections, including the active Student Association for Fire Ecology, and serve on various committees. Anyone who supports our mission can become a member of AFE, and through active involvement in our events, programs, and projects can help shape the emerging profession and growing field of fire ecology.

2012 BOARD OF DIRECTORS AND OFFICERS

AFE OFFICERS

President: *Dr. Brian Oswald*,
Denman Distinguished Professor and Regents
Professor, Stephen F. Austin State University
Vice-President: *Dr. Paul F. Hessburg*,
Research Ecologist & Affiliate Professor,
University of Washington
Financial Secretary: *Micah-John Beierle*,
Research Associate, Texas Tech University

AFE STAFF

Co-Directors:
Dr. Timothy Ingalsbee and *Catia Juliana*
Bookkeeper:
Brandy Newton
Webmaster:
Brett Cole

AFE BOARD MEMBERS

Dr. Chris Dicus, Professor, California Polytechnic
State University
Robert Gray, R.W. Gray Consulting, Ltd.
Dr. Bob Keane, Research Ecologist, US Forest Service
Dr. Leda Kobziar, Associate Professor, University of
Florida
Dr. Gus Smith, Fire Ecologist, Yosemite National Park
Dr. Louisa Evers, Research Liaison/Climate Change
Coordinator, Bureau of Land Management
Brandon Collins, Research Forester
Sam Lindblom, Fire Manager, The Nature
Conservancy
Dr. Karin Riley, University of Montana
Dr. Adam Watts, University of Florida
Mike da Luz, Senior Account Manager, Esri

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2012 SAFE OFFICERS

President: *Daniel Godwin*, University of Missouri
– Columbia
Vice-President: *Matt DeLaney*, University of
Montana
Secretary: *Jena Ferrarese*, University of Montana
Treasurer: *Mike Tiller*, Stephen F. Austin State
University

In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, or disability.

WELCOME AND INTRODUCTION

The Association for Fire Ecology (AFE) welcomes you to the Fifth International Fire Ecology and Management Congress in Portland, Oregon, USA. AFE, fellow organizers, and sponsors of this conference recognize that during today's difficult economic times it takes an extraordinary level of effort and commitment on your part to participate in this event. We thank all of you and applaud your commitment to the science and management of fire, and trust that your efforts will be rewarded by a rich program of events.

This Fire Congress is the fifth in a series that AFE has hosted every third year starting in 2000. These Fire Congresses are the largest and most comprehensive meetings on the research and management of wildland fire that are held anywhere in the world. They provide an unparalleled exposure to the complexity, breadth, and depth of the field of wildland fire. Providing a respectful, inclusive forum for a diverse range of topics and opinions is one of the foundational principles that has been part of the success of the Fire Congress series. We invite you to share with, learn from, and get inspired by fellow attendees gathered here from all across the globe.

The theme of this fifth Fire Congress is "Uniting Research, Education, and Management." In the lab, classroom, and field, we have made a lot of progress in the development, refinement, dissemination, and application of new information. Our challenge is to expand the view of our own roles, recognize our many contributions to the work of each other, and facilitate more active collaborations among researchers, educators, and managers. The opportunity to meet with each other face-to-face in a conference setting is invaluable to meeting this challenge. Enjoy your reunions with old friends and colleagues—and look forward to meeting new ones.

We would like to express our sincere gratitude to all of those participating in the organization and operation of this Fire Congress. The amount of work that goes into hosting this event is huge, and without the dedication of the core members of the committees, staff, volunteers, and sponsors, we would have no conference. Thank you!

The long term vision for these Fire Congresses and other AFE conferences is to provide an essential professional gathering where members of the wildland fire community can learn from each other, develop broader perspectives, and effectively address the monumental issues surrounding wildfire, people, and the local and global environment. These conferences are only one of AFE's many areas of work—we encourage you to get more involved. For more information see <http://www.fireecology.org>

Neil G. Sugihara, Ph.D.

Fifth International Fire Ecology and Management Congress, Co-chair

Scott Stephens, Ph.D.

Fifth International Fire Ecology and Management Congress, Co-chair

Brian Oswald, Ph.D.

Association for Fire Ecology, President

Catia Juliana, M.S.

Association for Fire Ecology, Co-Director

Timothy Ingalsbee, Ph.D.

Association for Fire Ecology, Co-Director

FIRE CONGRESS COMMITTEE MEMBERS

STEERING COMMITTEE

Neil Sugihara, co-chair; US Forest Service
Scott Stephens, co-chair; University of California, Berkeley
Geoff Babb, Bureau of Land Management
Micah-John Beierle, Texas Tech University
Rosalie Carnam, Student Association for Fire Ecology
Chris Dunn, Oregon State University
Wendy Fulks, The Nature Conservancy
Bob Gray, R.W. Gray Consulting Ltd./AFE Board
Tim Ingalsbee, Association for Fire Ecology
Catia Juliana, Association for Fire Ecology
Leda Kobziar, University of Florida
Melanie Miller, Bureau of Land Management (retired)
Sandra Rideout-Hanzak, Texas A&M University, Kingsville
Gene Rogers, International Association of Wildland Fire
Tim Swedberg, Joint Fire Science Program
Robin Wills, National Park Service

PROGRAM COMMITTEE

Tim Swedberg, program committee chair; Joint Fire Science Program
Geoff Babb, attached meeting coordinator; Bureau of Land Management
Bob Gray workshops/training coordinator; R.W. Gray Consulting Ltd., Canada
Morris C. Johnson, poster session coordinator; US Forest Service
Sarah McCaffrey, US Forest Service
Melanie Miller, closing plenary co-coordinator; Bureau of Land Management (retired)
Francisco Seijo, Middlebury College; New York University; Fundacion IES; Stanford University; BOSP/USC, Madrid, Spain
Scott Stephens, plenary session coordinator; University of California, Berkeley
Neil Sugihara, banquet coordinator; US Forest Service
Robin Wills, special session coordinator; closing plenary co-coordinator; National Park Service

FIRE CONGRESS WEB SITE COMMITTEE

Brett Cole, webmaster; Association for Fire Ecology
Geoff Babb, Bureau of Land Management
Micah-John Beierle, Texas Tech University
Catia Juliana, Association for Fire Ecology

FACILITIES/VENUE COMMITTEE

Connie Austin, HelmsBriscoe
Geoff Babb, Bureau of Land Management
Tim Ingalsbee, Association for Fire Ecology
Catia Juliana, Association for Fire Ecology
Neil Sugihara, US Forest Service

STUDENT COORDINATORS

Chris Dunn, Oregon State University
Tom DeMeo, US Forest Service
Tim Ingalsbee, Association for Fire Ecology

VOLUNTEER COORDINATORS

Chris Dunn, student volunteers; Oregon State University
Tom DeMeo, moderators; US Forest Service

UNIVERSITY/CONTINUING EDUCATION CREDITS

Chris Dunn, Oregon State University

STUDENT ACTIVITIES

Tim Ingalsbee, chair; Association for Fire Ecology
Andi Thode, Northern Arizona University
Leda Kobziar, University of Florida
Adam Watts, University of Florida
Rosalie Carnham, *Matt DeLaney*, *Jena Ferrarese*, *Daniel Godwin*, *Mike Tiller*, and *Brett Watson*, Student Association for Fire Ecology

REGISTRATION

Catia Juliana, Association for Fire Ecology

SPONSORSHIP/BUDGET COORDINATOR

Tim Ingalsbee, Association for Fire Ecology
Catia Juliana, Association for Fire Ecology
Brandy Newton, Association for Fire Ecology

MARKETING AND OUTREACH

Catia Juliana, Association for Fire Ecology
Tim Swedberg, Joint Fire Science Program
Tim Ingalsbee, Association for Fire Ecology

PREMIUMS

Melanie Miller, Bureau of Land Management (retired)

FIRE CONGRESS SUPPORTING ORGANIZATIONS

SPONSORS

Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University
 Campbell Scientific, Inc.
 Esri
 FRAMES—Fire Research & Management Exchange System
 Joint Fire Science Program
 National Park Service Fire and Aviation Management
 Northern Arizona University
 US Forest Service Pacific Southwest Research Station Fire and Fuels Program
 US Forest Service PNW Research Station, Ecological Process and Function Program
 US Geological Survey

SIGNIFICANT SUPPORTERS

Ecology Program of the US Forest Service, Pacific Northwest Region
 FUSEE: Firefighters United for Safety, Ethics, and Ecology
 Roseburg Bureau of Land Management
 US Forest Service Region 5

EXHIBITORS

2014 International Union of Forest Research Organizations World Congress
 Fire Monks
 International Association of Wildland Fire
 National Fire Protection Association Wildland Fire Operations
 National Wildfire Coordinating Group Fire Behavior Subcommittee
 Northwest and Great Basin Fire Science Consortia
 US Forest Service Pacific Wildland Fire Sciences Laboratory
 US Forest Service Wildland Fire Management, Research, Development and Application
 US Forest Service Wildland Fire Science Partnership

DONORS

Esri
 National Fire Protection Association Wildland Fire Operations



FIRE CONGRESS SUPPORTING ORGANIZATIONS, CONTINUED

Read more about our Fire Congress supporters

FIRE CONGRESS SUPPORTERS

Esri

With over forty years of experience, Esri continues to be a global leader in GIS software, shaping the future of geospatial information technology. Resource management, habitat conservation, fire ecology, landscape planning, cumulative effects and many other natural resource applications are enhanced with spatial analytics and place based decision support. Now delivered on mobile devices and cloud ready solutions, GIS now extends the traditional reaches of desktop and server applications. Recent releases of ArcGIS Online, make it easier for the consumption and publishing of relevant and timely maps, imagery and resource planning. Fire management, whether natural or applied, is improved with spatial information at multiple scales, in collaborative plans and delivered in real time. We invite you to join the Esri Forestry Group, a community of forestry professionals that put GIS to work for forestry and resource management. Your expertise in restoration, conservation and ecology would add to the richness of this growing virtual community. Learn more at www.esri.com/efg

National Park Service

The National Park Service manages wildland fire to protect the public, communities and infrastructure, conserve natural and cultural resources, and restore and maintain ecological health. Safety, science, and stewardship are the core components of the National Park Service Fire Management Program.

Fire managers strive to ensure that the most current science-based information is integrated into fire and land management goals, decisions and practices. This work includes collaborating with resource managers and scientists to develop fire management objectives that will meet land management goals, designing and implementing monitoring programs to determine if objectives are met, and identifying questions that need to be answered through research studies. This information is critical to ensuring a scientifically-based fire management program that will continue to improve as new knowledge is gained.

For more about how wildland fire management is an integral part of the National Park Service visit our website at <http://www.nps.gov/fire>.

USDA Forest Service, PNW Research Station, Ecological Process and Function Program

The Ecological Process and Function Program of the PNW Research Station (USDA Forest Service) advances and communicates knowledge of fundamental ecological processes and their interactions at multiple scales and develops applications that enable improved management of ecosystems and resources. Scientists in the Ecological Process and Function Program's five teams work from central Alaska to southern Oregon, from the coast to the interior. We improve understanding of the influences of biophysical environment and natural and human-caused disturbances on fundamental ecological processes and functions. We also identify, assess, and determine the causes of changes in ecosystem attributes, processes, and functions over time.

FIRE CONGRESS SIGNIFICANT SUPPORTERS

Firefighters United for Safety, Ethics, and Ecology (FUSEE)

FUSEE is a nonprofit organization whose mission is to promote safe, ethical, ecological fire management. Through public education and policy advocacy, we seek to inform and empower the wildland fire community to become advocates for firefighter and public safety, ethical public service, environmental protection, and ecological restoration.

Ecology Program of the USDA Forest Service, Pacific Northwest Region

The Pacific Northwest Regional Ecology Program of the US Forest Service serves the National Forests of Oregon and Washington, along with our partners, with technology transfer, mapping, data management, field guides, assessments, monitoring, and other aspects of applied ecology in planning and management.

Ecologists are particularly effective because they are based on the Forests, and are directly available and accountable. We work effectively with all disciplines and follow a service ethic. The Fuels Management Program of the Pacific Northwest Region is on the cutting edge of both accomplishment and strategic thinking about fuels treatment and wildfire management. Covering a wide range of fire regimes and environments, the program is a national leader in management of Collaborative Landscape Projects and strategic placement of treatments.

FIRE CONGRESS SUPPORTING ORGANIZATIONS, CONTINUED

FIRE CONGRESS EXHIBITORS

Northwest and Great Basin Fire Science Consortia

The Northwest Fire Science Consortium and Great Basin Fire Science Delivery are your Northwestern branches of the Joint Fire Science Program's Regional Knowledge Exchange Consortia. These consortia assist field-level land managers in identifying and accessing the best fire science information available for their regions, provide coordinated outreach frameworks for information sharing, and provide venues for enhanced communication and relationship building between fire and fuels land managers and researchers, with the ultimate goal of improving technical and policy fire decision-making. We expect public and private land managers to benefit from these consortia by having a place and a person to turn to for answers to technical questions, leads to research contacts, and a forum to communicate technical needs. We expect research scientists to benefit from this project by gaining new ideas and partnerships for research and by providing new methods of outreach for research results.

FRAMES—University of Idaho

The Fire Research And Management Exchange System (FRAMES) is an online resource developed for wildland fire managers, researchers, and other stakeholders by the University of Idaho in collaboration with the U.S. Forest Service Rocky Mountain Research Station. FRAMES offers searchable information, a platform for data sharing and storage, development of new tools, and support to federal wildland fire management agencies in the United States throughout the various stages of wildland fire, including planning, operation, and post-fire monitoring. Services include the Resource Cataloging System (RCS), a searchable database of documents, data, tools, and other information; online training developed by NIFTT and NWCG; educational materials on air quality and smoke management developed by the NWCG Smoke Committee (SmoC) and the University of Idaho; the FIREMON and FFI Ecological Monitoring Utilities; archived webinars from IAWF, JFSP and the Wildland Fire Lessons Learned Center; and much more. Visit www.frames.gov for further information.

NFPA/Firewise Communities Program

The National Fire Protection Association's Firewise Communities program encourages local solutions for wildfire safety by involving homeowners, community leaders, planners, developers, firefighters, and others in the effort to protect people and property from the risk of wildfire. The program offers a selection of brochures, booklets and DVDs at no cost. The program is co-sponsored by the USDA Forest Service, the US Department of the Interior and the National Association of State Foresters. For more information, visit www.firewise.org.

Wildland Fire Science Partnership

The Wildland Fire Science Partnership integrates the scientific expertise, technological capability, and on-the-ground experience from the Universities of Montana and Idaho and the U.S. Forest Service's Rocky Mountain Research Station under a common mission. The WFSP utilizes each partner's unique strengths in a combined effort to produce more effective and far-reaching research and to develop and deliver new tools and knowledge. The Partnership is:

- ◆ Increasing core fire and fuel science and producing timely and reliable information
- ◆ Increasing access to critical data and applications
- ◆ Educating and training the future workforce.

U.S. Forest Service, Pacific Wildland Fire Sciences Laboratory

The Pacific Wildland Fire Sciences Lab is part of the U.S. Forest Service Pacific Northwest Research Station, and home base to research teams who direct studies in the Pacific Northwest, around the country, and internationally. The lab conducts research on fuels and fire behavior, fire ecology in forest ecosystems, effects of fire on air quality and visibility, impacts of smoke on human health, climate change effects and adaptation, and human systems in the urban-wildland interface. Significant fire research is also conducted at other labs across the research station.

The Fire Lab is home to the Fire and Environmental Research Applications Team (FERA), Atmosphere and Fire Interactions Research Team (AIRFire), Urban-Wildland Interactions Team (UWIT), and Vegetation Monitoring and Remote Sensing Team (VMaRS).

natural and human-caused disturbances on fundamental ecological processes and functions. We also identify, assess, and determine the causes of changes in ecosystem attributes, processes, and functions over time.



FIRESCIENCE.GOV

Research Supporting Sound Decisions

OUR MISSION

- ◆ Provide credible research tailored to the needs of fire and fuel managers
- ◆ Engage and listen to clients and then develop focused, strategic lines of new research responsive to those needs
- ◆ Solicit proposals from scientists who compete for funding through a rigorous peer-review process designed to ensure the best projects are funded
- ◆ Focus on science delivery when research is completed with a suite of communication tools to ensure that managers are aware of, understand, and can use the information to make sound decisions and implement projects

The Program is uniquely positioned to tailor wildland fire research in response to the emerging needs of policymakers and fire managers. An annual cycle of proposal solicitation, review, and funding ensures timely response to evolving conditions. Research projects complement and build on other federal research programs, such as those in the Forest Service Forest and Rangeland Research Stations, U.S. Geological Survey, and National Fire Plan. Synthesis of research findings and targeted delivery to managers are essential components of the Program.

More than 90 colleges and universities have also collaborated on and partnered with JFSP-sponsored research projects. By engaging masters and doctoral candidates in these projects, we are training the next generation of resource managers and scientists. This collaboration extends to private, non-profit organizations and tribal, state, county, and local governments as well. In all, nearly 200 organizations have become partners in JFSP-sponsored research.



FUSEE

Firefighters United for Safety, Ethics, and Ecology

Torchbearers for a new fire management paradigm

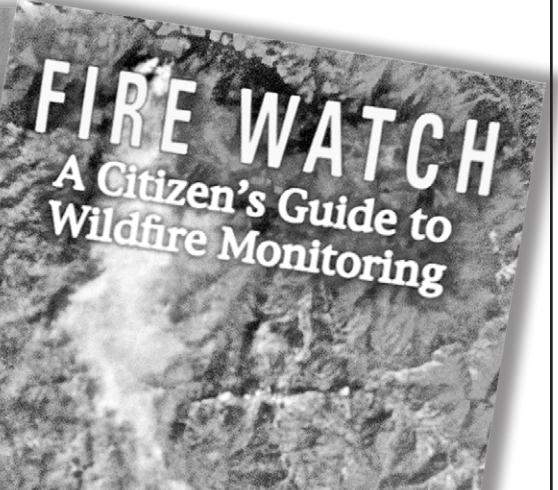
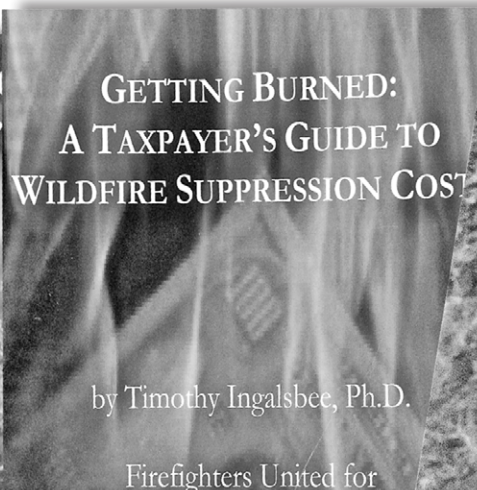
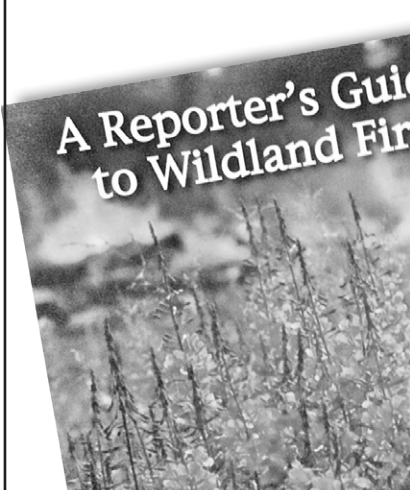


Welcome to the Fifth International Fire Ecology and Management Congress!

Visit us in the Exhibit Hall!

FUSEE is a nonprofit organization whose members include current, former, and retired wildland firefighters, other fire/fuels management workers, researchers and educators, rural residents, and forest conservationists. Through public education and policy advocacy our mission is to promote *safe, ethical, ecological* fire management. Our vision is to re-create fire-compatible communities able to work safely and live sustainably with wildland fire.

We provide critical analyses and alternative perspectives on many of the *burning issues* affecting the wildland fire community. We seek to inform and empower fire management workers and their citizen supporters to become advocates for firefighter and public safety, ethical public service, environmental protection, and ecological restoration. We invite you to visit our website, check out our research reports and policy analyses, and join FUSEE today!

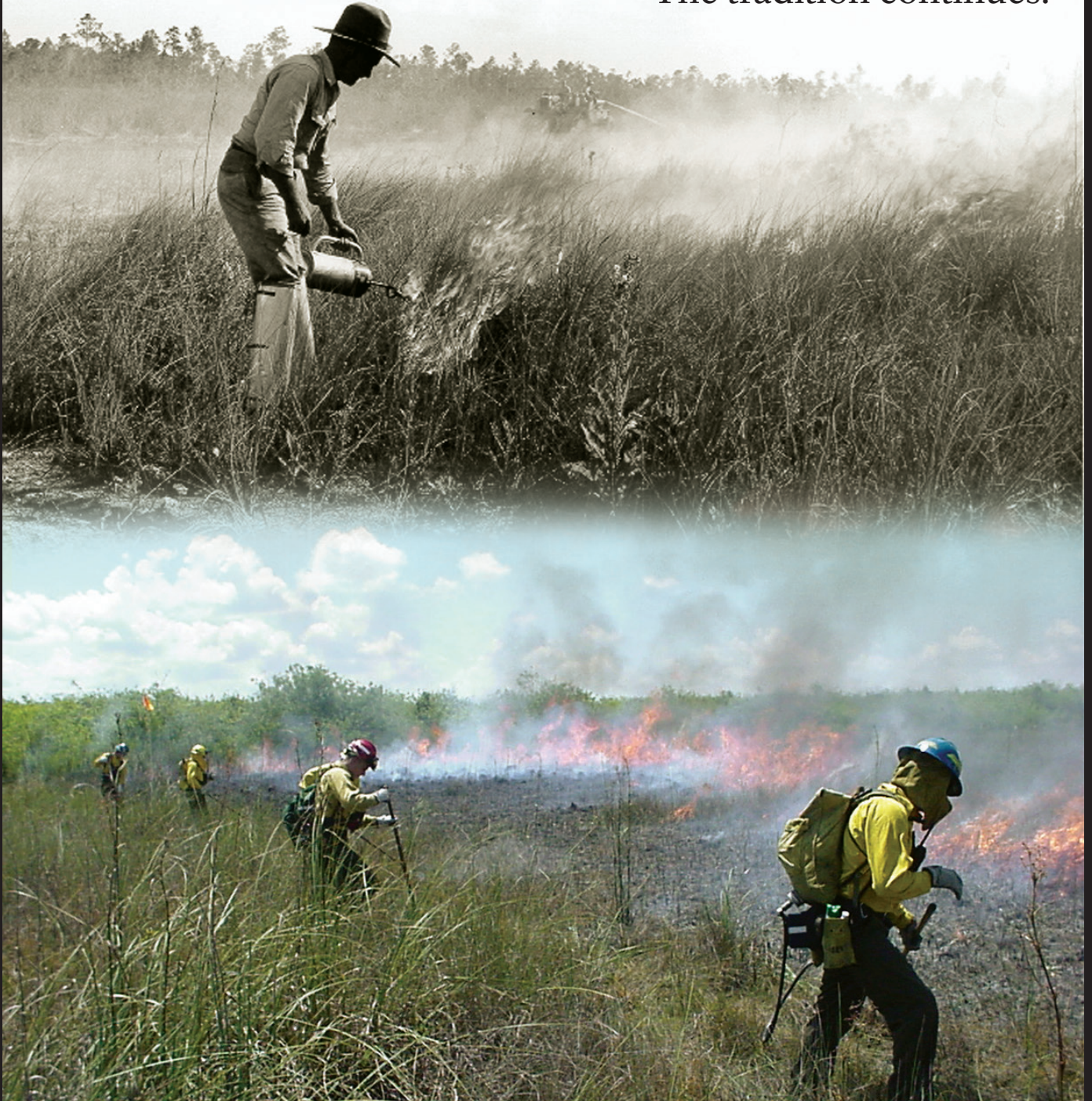


visit us: www.fusee.org

contact us: info@fusee.org

Safety | Science | Stewardship

The tradition continues.



Fire & Aviation

www.nps.gov/fire | Follow us on Facebook

Everglades National Park.
1958 (top) to 2012.

FIRE CONGRESS EXHIBITOR BOOTH IDENTIFICATION NUMBERS

Booth #	Name of organization
1	National Park Service Fire & Aviation Management
2	Ecology Program of the US Forest Service Pacific Northwest Region
3	US Forest Service Wildland Fire Management, Research, Development & Application
4 and 5	US Forest Service Pacific Wildland Fire Sciences Lab
6 and 7	US Forest Service Wildland Fire Science Partnership
8	FRAMES: Fire Research & Management Exchange System
9	US Geological Survey
10	US Forest Service Pacific Southwest Research Station Fire & Fuels Program
11	National Wildfire Coordinating Group Fire Behavior Subcommittee
12	Northern Arizona University
13	Northwest & Great Basin Fire Science Consortia
14	Joint Fire Science Program
15	FUSEE: Firefighters United for Safety, Ethics, & Ecology
16	Esri
17	Campbell Scientific, Inc.
18	National Fire Protection Association Wildland Fire Operations
19	International Association of Wildland Fire
20	Fire Monks
21	2014 International Union of Forest Research Organizations World Congress

MONDAY, 3 DECEMBER

SCHEDULE OVERVIEW

8 AM TO 5 PM

REGISTRATION

OREGON CONVENTION CENTER, LOBBY



FREE WORKSHOPS

8-HOUR AND 4-HOUR SESSIONS.

SPACE LIMITED; SIGN-UP DURING REGISTRATION.

PLEASE SEE SCHEDULE, NEXT PAGE, FOR TIMES AND LOCATIONS.



ALL EVENTS TAKE PLACE IN THE OREGON CONVENTION CENTER UNLESS OTHERWISE NOTED.

MAPS OF THE ROOMS CAN BE FOUND AT THE BACK OF THE PROGRAM.

NO BREAKS OR FOOD SERVICE PROVIDED TODAY, BUT THE COFFEE SHOP ACROSS THE HALL IS OPEN.



ATTACHED MEETINGS

See schedule, below

DOUBLETREE HOTEL



NOON TO 1 PM

LUNCH

On your own. Check out the dining guides at the end of the program.



NOON TO 7 PM

EXHIBIT & POSTER SET-UP

OREGON CONVENTION CENTER, EXHIBIT HALL B



6 PM

WELCOME RECEPTION/MIXER

DOUBLETREE HOTEL

SCHEDULE OF ATTACHED MEETINGS AT DOUBLETREE HOTEL

Time	Meeting	Room	Host
8 AM to 5 PM	NPS Fire Ecology Steering Committee	Roosevelt	<i>Nate Benson</i>
1 to 5 PM	USFS Fire Ecologists	Jackson	<i>Jim Menakis</i>
1:30 to 4:30 PM	BLM Fire Ecologists	Washington	<i>Doug Havlina</i>
1 to 5 PM	R6 Ecology Group	Grant	<i>Tom Demeo</i>
8 AM to 5 PM	R6 Fuels Group	Alaska-Idaho	<i>Bill Aney</i>
8 AM to 5 PM	Fire Learning Network	Morrison	<i>Lynn Decker</i>
1 to 5 PM	Fire Risk Scenario	Lincoln	<i>Jon Keeley</i>
5 to 6 PM	Moderators and Helpers	Morrison	<i>Tom Demeo</i>
5 to 6 PM	Volunteers	Alaska-Idaho	<i>Chris Dunn</i>

MONDAY, 3 DECEMBER

WORKSHOP SCHEDULE

	8 AM to Noon	Lunch	1 PM to 5 PM
Room B110	#1 Monitoring Trends in Burn Severity Project: Overview, Data Applications, and Burn Severity Trends <i>Jennifer Lecker</i> , Moderator US Forest Service	⇒	#1 Monitoring Trends, <i>continued</i>
Room B111	#3 Recently Updated Missoula Fire Sciences Lab Educational Programs and Applications: Fireworks, Fire Effects Information System, First Order Fire Effects, and FuelCalc <i>Duncan Lutes</i> , Moderator US Forest Service		#2 Overview and Demonstration of the FEAT FIREMON Integrated Ecological Monitoring Application <i>Duncan Lutes</i> , Moderator US Forest Service
Room B112	#5 ArcFuels <i>Nicole Vaillant</i> , Moderator US Forest Service	⇒	#5. ArcFuels, <i>continued</i>
Room B113	#12 Developing Tree-ring Based Fire Histories: Managing Data, Statistics, and Graphics <i>Elaine Kennedy Sutherland</i> , Moderator US Forest Service		#4 Using the BehavePlus Fire Modeling System for Prescribed Fire Planning <i>Faith Ann Heinsch</i> , Moderator US Forest Service
Room B114	#9 National Wildfire Coordinating Group Fire Behavior Sub-Committee <i>Jason Loomis</i> , Moderator National Wildfire Coordinating Group	⇒	#9 National Wildfire Coordinating Group, <i>continued</i>
Room B115	#8 Incorporating Climate Change into Fuel Treatment Planning <i>Crystal Kolden</i> , Moderator University of Idaho		OPEN ROOM
Room B116	#10 Fire Regime Condition Class: Concepts, Methods, and Applications <i>Eva Strand</i> , Moderator University of Idaho		#11 Predicting Fire Behavior and First Order Fire Effects Spatially with the Wildland Fire Assessment Tool <i>Eva Strand</i> , Moderator University of Idaho
Room B117	#6 Interagency Fuel Treatment Decision Support System <i>Stacy Drury</i> , Moderator Sonoma Technology, Inc.	⇒	#6 Interagency Fuel Treatment, <i>continued</i>
Room B118	#7 Gigapan Workshop: High Resolution Panoramic Images for Science <i>Dick Bahr</i> , Moderator US Department of the Interior	⇒	#7 Gigapan Workshop, <i>continued</i>

TUESDAY, 4 DECEMBER

SCHEDULE OVERVIEW

8 AM TO 5 PM
REGISTRATION
LOBBY



8 TO 10:50 AM
WELCOME AND PLENARY SESSION
UPSTAIRS IN THE OREGON BALLROOM



9:20 TO 9:50 AM
MORNING BREAK
UPSTAIRS IN THE OREGON BALLROOM LOBBY



11 TO 11:45 AM
CONCURRENT ORAL PRESENTATION SESSIONS
DOWNSTAIRS IN THE B AND C HALLS



11:50 AM TO 1:05 PM
LUNCH BREAK
On your own.
Check out the dining guides at the end of the program.



1:15 TO 2:45 PM
CONCURRENT ORAL PRESENTATIONS, CONTINUED
DOWNSTAIRS IN THE B AND C HALLS



2:55 TO 3:25 PM
AFTERNOON BREAK
DOWNSTAIRS IN EXHIBIT HALL B



3:25 TO 5 PM
CONCURRENT ORAL PRESENTATIONS, CONTINUED
DOWNSTAIRS IN THE B AND C HALLS

SPECIAL EVENTS

5:30 TO 8:30 PM
EXHIBIT & POSTER RECEPTION
DOWNSTAIRS IN EXHIBIT HALL B



5:30 PM
BOOK SIGNING

Fire Monks: Zen Mind Meets Wildfire

When wildfire surrounded Tassajara, the oldest Zen Buddhist monastery in the West, five monks risked their lives to save it. Their story is told in *Fire Monks: Zen Mind Meets Wildfire*, a gripping narrative as well as a portrait of the Zen path and the ways of wildfire, named a best book of 2011 by the *San Francisco Chronicle*. Author **Colleen Morton Busch** will sign her books during the poster session.

DOWNSTAIRS IN EXHIBIT HALL B



5:30, 6:30, AND 7:30 PM
SPECIAL SCREENINGS
*Prescribed Fire in Northern California:
Perceptions and Applications*
—a 52-minute video by **Will Harling**
DOWNSTAIRS IN ROOM B113



6 TO 8 PM
ATTACHED MEETING
AFE Education Committee
Hosted by **Chad Hoffman**
DOWNSTAIRS IN ROOM C128



5:30 TO 8:30 PM
SLIDE SHOW: *The Art of Fire*
Hosted by **Sarah Trainor**
DOWNSTAIRS IN ROOM B111

PLENARY SPEAKERS

DR. BRIAN OSWALD

Regents Professor, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University.
Current President of AFE.

DR. SARAH McCAFFREY

Sarah M. McCaffrey, Ph.D. is a Research Forester for the USDA Forest Service, Northern Research Station. Her research focuses on the social aspects of fire management. This has included National Fire Plan and Joint Fire Science sponsored projects examining the characteristics of effective communication programs and the social acceptability of prescribed fire, thinning, and defensible space. More recently she has begun work on the social issues that occur during fires including alternatives to evacuation and community-agency interactions during fires. She received her PhD

in Wildland Resource Science from the University of California at Berkeley where her research examined Incline Village, Nevada homeowner views and actions in relation to defensible space and fuels management.

COLLEEN MORTON BUSCH

Colleen Morton Busch is the author of *Fire Monks*, named a best book of 2011 by Publisher's Weekly and the *San Francisco Chronicle*. Busch has worked as a college instructor in New Orleans and Beijing, a magazine editor, and a freelance writer. Her work has appeared in *Yoga Journal*, where she was a senior editor, *Tricycle*, *Shambhala Sun*, the *San Francisco Chronicle*, and numerous literary magazines. She blogs for the *Huffington Post* and is currently at work on a novel. A Zen student and outdoor enthusiast, Busch lives in Northern California.

TUESDAY OPENING PLENARY SCHEDULE

	8 AM	8:20 AM	9:20	9:50 AM
Ballroom	<p>Welcome Dr. Brian Oswald <i>President, Association for Fire Ecology</i></p>	<p>Dr. Sarah McCaffrey <i>USFS Northern Research Station</i></p> <p>The public and wildfire: conventional wisdom versus reality.</p>	Morning Break	<p>Colleen Morton Busch <i>Author of Fire Monks: Zen Mind Meets Wildfire</i></p> <p>The fire-adapted landscape and the fire-adapted mind: living and practicing with fire.</p>

GUIDE TO THE CONCURRENT ORAL PRESENTATION SESSIONS FOR TUESDAY

The presentations listed in the schedule on the next four pages are broken into the following sessions. Please refer to the floorplan maps at the back of your program for room locations. Presentation abstracts and speaker biographies are provided in a separate document entitled "Oral presentations."

SPECIAL SESSIONS

Room B110

Moderator **Rachel Loehman**
Simulating Past, Present, and Future Climate Disturbance and Vegetation Interactions on Complex Landscapes Using FireBGCv2 Ecological Process Model
9 presentations; 11 AM to 4:35 PM

Room B111

Moderators **Vita Wright** and **Molly Hunter**
The Joint Fire Science Knowledge Exchange Consortia: Bridging the Chasm Between Management and Science
10 presentations; 11 AM to 5:05 PM

Room B113

Moderator **Mitchell Power**
Climate Drivers of Historical Fires: Insights from Charcoal and Tree Rings
10 presentations; 11 AM to 5:05 PM

Room B114

Moderator **Carol Miller**
Lessons for Wilderness Fire Ecology, Management and Restoration
9 presentations; 11 AM to 4:35 PM

Room B115

Moderator **Tim Swedberg**
Bark Beetles and Fire
10 presentations; 11 AM to 5:05 PM

Room B117

Moderator **Skip Smith**
Presentations from Colorado State University Students and Faculty
10 presentations; 11 AM to 5:05 PM

Room B118

Moderators **Frank Lake** and **Don Hankins**
Indigenous Fires and Land Management Practices
6 presentations; 1:15 to 4:35 PM

Room C121

Moderator **Matt Thompson**
Issues of Wildfire Risk Assessment and Management
8 presentations; 11 AM to 4:10 PM

Room C125

Moderator **Greg Dillion**
Assessing Fire Effects with Remote Sensing and Geospatial Technologies
9 presentations; 11 AM to 4:35 PM

Room C126

Moderator **Tim Ingalsbee**
FIRE TREK: The Next Generation (Invited Student Presentations)
10 presentations; 11 AM to 5:05 PM

CONTRIBUTED ORAL PRESENTATION SESSIONS

Room B112

Observing Fire
10 presentations; 11 AM to 5:05 PM

Room B116

Working with Fire
10 presentations; 11 AM to 5:05 PM;

Room B118

Working with Fire
2 presentations; 11 to 11:50 AM

Room C120

After the Fire
9 presentations; 11 AM to 4:35 PM

Room C122

Simulating Fire
10 presentations; 11 AM to 5:05 PM

11 AM	11:25 AM	1:15 PM	1:40 PM	2:05 PM
Rm B110 Robert Keane Simulating multiple disturbance-landscape interactions: model processes, progress, and predictions.	Rachael Loehman Estimating critical climate-driven thresholds in landscape dynamics using spatial simulation modeling: do climate and fire interact to produce ecological tipping points?	Robin Silverstein Simulating future wildfire risk in the wildland-urban interface in Flathead County, Montana.	Lisa Holsinger Impacts of climate change and wildfire on stream temperature and bull trout in the East Fork Bitterroot River.	Christopher O'Connor Alternate realities: forest and fire dynamics in a 20th century with and without fire suppression.
Rm B111 John Cissel The JFSP Knowledge Exchange Consortia: science exchange and adoption through regional partnerships.	Lorie Sicafuse Initial findings from a cluster evaluation of the Joint Fire Science Program Regional Consortia.	Susan Kocher Wildland fire science and management in the us: spanning the boundaries through the Regional Knowledge Exchange.	Jessica Miesel Lake States Fire Science Consortium knowledge gaps assessment: increasing awareness and accessibility of regional results by management and research communities.	Vita Wright Understanding science communication among fire professionals.
Rm B112 Pat Kennedy Meta-analysis of avian and small mammal response to fire severity and fire surrogate treatments in US fire-prone forests.	Don Falk A new North American fire scar network for reconstructing historical pyrogeography, 1600 to 1900 A.D.	Jacqueline Dewar Multi-scale analysis of fire regimes in montane grassland-forests of the Valles Caldera, New Mexico, USA	Becky Estes Effects of prescribed fire and season of burn on <i>Cyripedium montanum</i> habitat.	Chris Mallek Cone behavior in a rare, serotinous cypress.
Rm B113 Mitchell Power Climate, people, and fire during the Holocene: what geographic scale did prehistoric people influence past changes in biomass burning?	Colin Long Millennial to centennial scale climate controls on fire in the Oregon Coast Range.	Wendy Gross LagMap: a web-mapping tool to explore historic spatial and temporal drivers of fire-climate relationships using superposed epoch analysis.	Elaine Sutherland Drivers of mixed-severity fire in montane and subalpine forests of the northern Rockies.	Erica Bigio A fire history reconstruction of the western San Juan Mountains: results from tree-ring and alluvial sediment methods.
Rm B114 Emric Battlori Quantifying the environmental space occupied by wilderness areas to improve our understanding of natural and altered fire regimes.	Molly Hunter Historical and current fire management practices in two southwestern wilderness areas: Saguaro National Park and the Gila National Forest.	Jose Iniguez The Gila Wilderness as a natural landscape experiment for ponderosa pine forests.	Travis Belote Wilderness as a reference for restoration: can burned western larch forests in the Bob Marshall Wilderness serve as models for cross-scale restoration targets in mixed-severity fire regimes?	Andrew Larson Latent resilience: resumed frequent fire in the Bob Marshall Wilderness.
Rm B115 Chad Hoffman Evaluating fire propagation across a range of bark beetle induced mortality levels in southwestern ponderosa pine forests using FIRETEC.	Russ Parsons Modeling interactions of beetle attacks and fire behavior over time in lodgepole pine stands using FIRETEC.	Travis Woolley Looking beyond red crowns: canopy and surface fuels in lodgepole pine forests following mountain pine beetle epidemics in south-central Oregon.	LaWen Hollingsworth Potential fire behavior in post-MPB lodgepole pine forests in south-central Oregon: comparisons and lessons among BehavePlus, FCCS, and FlamMap.	Robert Gray Assessing fire behavior and fire effects in mountain pine beetle-killed lodgepole pine: the Mitchell Ridge prescribed burn.
Rm B116 Dan Dey Restoring oak forests and woodlands using modern silvicultural analogs to historic cultural fire regimes in eastern North America.	Morris Johnson Evaluating fuel treatment efficacy on Arizona's largest wildfire.	Morris Johnson Effects of salvage logging and pile-and-burn on fuel loading, potential fire behavior, fuel consumption, and emissions after a windstorm.	Jim Menakis The future of fire regime condition class – where we have been, where we need to go.	Jim Menakis Fuel treatment effectiveness monitoring and lessons learned.

11:50 AM Lunch Break

	11 AM	11:25 AM	1:15 PM	1:40 PM	2:05 PM
Rm B117	<p>Seth Ex Crown fuel profiles from forest inventory data: using stand density and species' shade tolerance to improve crown fire behavior prediction for western US conifer forests.</p>	<p>Justin Ziegler Evaluating fuel treatment effects on structure and spatial pattern in fire-frequent forests of Colorado.</p>	<p>Mark Paschke Utilization of "native weeds" for post-fire restoration.</p>	<p>Peter Brown Historical forest structure and fire regimes in lower montane Front Range Forests, Boulder County Parks and Open Space, Colorado.</p>	<p>Megan Matonis Comparing predictions of crown fire hazard across the Uncompahgre Plateau, Colorado.</p>
Rm B118	<p>Jon Keeley Climate-fire relationships on forested and non-forested landscapes in California.</p>	<p>Jon Keeley Understanding massive catastrophic fires in southern California.</p>	<p>Frank Lake Incorporating indigenous community values for natural and cultural resources into research and wildland fire management—a western North American perspective.</p>	<p>Ramona Butz Traditional fire management: historical fire regimes and land use change in pastoral East Africa.</p>	<p>Douglas Bird Aboriginal Australians as trophic regulators: fire, hunting, and small mammal extinctions in the Western Desert of Australia.</p>
Rm C120	<p>Paul Anderson Development of planted conifers in postfire restoration treatments in southwestern Oregon.</p>	<p>Jan Beyers Impact of post-fire mulches on chaparral vegetation recovery in southern California.</p>	<p>Bob Parmenter Resiliency of natural resources following the 2011 Las Conchas Fire in New Mexico: short-term impacts and recovery of aquatic and terrestrial vegetation and wildlife.</p>	<p>Danny Fry Patches and gaps: structural patterns of old-growth Jeffrey pine-mixed conifer forests with and without fire exclusion.</p>	<p>Chuck Rhoades A fifty year legacy of pile burning—is there recovery without rehabilitation?</p>
Rm C121	<p>Matt Thompson Applying a wildfire risk framework at national-, regional-, and forest-level planning scales—case studies and lessons learned.</p>	<p>Alan Ager Leveraging wildfire risk assessments for fuel management planning.</p>	<p>Karin Riley Random forests imputation of forest plot data for landscape-level wildfire analyses.</p>	<p>Dave Calkin Risk-risk tradeoffs: suppression effectiveness versus firefighter exposure.</p>	<p>Mark Finney Basic fire science and its role in supporting wildfire risk assessment.</p>
Rm C122	<p>Anthony Westerling Incorporating lightning scenarios into seasonal fire forecasts over California and Nevada.</p>	<p>Greg Cohn Western spruce budworm defoliation induced canopy fuel reductions increase thresholds for torching and crowning: a cross-scale sensitivity analysis using a physics-based fire model.</p>	<p>Tara Umphries Application of terrestrial laser scanning for quantifying grassland fuels across a range of heights and densities.</p>	<p>Richard Guyette Advancement in modeling the physical chemistry of climate and fire regimes.</p>	<p>Jenna Ferrarese Characterizing the heterogeneity of within-crown fine-fuel distribution for fire behavior simulation.</p>
Rm C125	<p>Nancy French Remote sensing of fire severity for estimating pyrogenic carbon emissions in high northern latitudes.</p>	<p>Todd Hawbaker Regional patterns of wildfire emissions in the conterminous United States.</p>	<p>Kevin Hyde Predicting post-fire gully rejuvenation using full-scale BARC.</p>	<p>Susan Stitt The development of an automated burned area prediction algorithm based on Landsat imagery.</p>	<p>Sean Parks A viable new method for mapping fine-scale day-of-burning with coarse-scale MODIS fire detection data.</p>
Rm C126	<p>James Cronan Effect of burn season on surface fuel dynamics in mesic longleaf pine flatwoods in northwest Florida.</p>	<p>Lauren Poulos Interactions between prescribed fire and the invasive grass, <i>Brachypodium sylvaticum</i>, in the Willamette National Forest, Oregon.</p>	<p>Ken Comish Long-term effects of silvicultural treatments for the control of <i>R. maximum</i> in the southern Appalachians.</p>	<p>Katherine Wyatt Landscape change over time: using aerial photography to understand riparian corridors in fire-dependent ecosystems of eastern Washington.</p>	<p>Kristen Pelz One size does not fit all: modeling the interacting effects of forest composition and management on fuel complex and predicted fire behavior in the century following a mountain pine beetle outbreak.</p>

11:50 AM Lunch Break

	2:30 PM	3:25 PM	3:50 PM	4:15 PM	4:40 PM
Rm B110	<p>Kathryn Ireland A process-based approach to modeling the response of vegetation communities and fire regimes to climatic change in northern Arizona.</p>	<p>Gabriel Yospin Simulations and multi-proxy inferences of historic vegetation and fire dynamics: preliminary results from FireBGCv2 in Tasmania, Australia.</p>	<p>Jason Clark A landscape in transition: modeling effects of climate changes and wildfire on vegetation pattern and process in Yellowstone National Park.</p>	<p>Bob Riggs An exploration of multi-species grazing with FireBGCv2: can spatial herbivory concepts enlighten Landscape Fire Succession Models?</p>	
Rm B111	<p>Susan Kocher Best practices for communicating with the public about fire science and management.</p>	<p>Marjie Brown Delivering your message: tools and tips for social media and web media.</p>	<p>Jane Kapler Smith Syntheses: improving relevance and usefulness for managers.</p>	<p>Vita Wright Fostering proactive knowledge exchange through workshops and fieldtrips.</p>	<p>Alan Long JFSP Fire Science Regional Consortia: collaborations and partnerships—what has worked really well?</p>
Rm B112	<p>Joe Fontaine Species persistence in fire-prone shrublands of Western Australia: effects of fire interval and climate.</p>	<p>Brett Watson Wildfire smoke effects on flora.</p>	<p>Byambagerel Suran Forest fire history of northeastern Mongolia.</p>	<p>Andre Arsenault Spatial and temporal patterns of fire history and vegetation of dry forests along an elevation gradient in the Arrowstone valley, southern British Columbia.</p>	<p>Van Kane Landscape scale changes to forest structure changes with different fire severities in Yosemite National Park.</p>
Rm B113	<p>James Arnold Modeling fire conditions in the western United States using antecedent climate.</p>	<p>Vachel Carter Assessment of fire severity and vegetation response using high-resolution pollen from a sedimentary record in southeastern Wyoming, USA.</p>	<p>Larissa Yocom Climate and land-use drivers of historical fires in northern Mexico.</p>	<p>Shira Tracy Late quaternary climate controls on fire in neotropical savanna ecosystems.</p>	<p>Colin Courtney Mustaphi Multiple lake sediment records of Holocene forest fire histories from southeastern British Columbia, Canada.</p>
Rm B114	<p>Don Falk How do rapid ecosystem shifts triggered by interactions of severe landscape disturbance and climate change our thinking about ecological restoration?</p>	<p>Sandra Haire Defining habitats for surviving trees in wilderness following La Mesa Fire 1977.</p>	<p>Robert Keane Wilderness and whitebark pine restoration: a barrier and an opportunity.</p>	<p>Carol Miller Fire management tradeoffs: three wilderness case studies.</p>	
Rm B115	<p>Mike Jenkins Diurnal variation in foliar moisture content of lodgepole pine in the red stage of mountain pine beetle attack.</p>	<p>Carolyn Sieg Modeling fire propagation in highly variable pinyon-juniper woodlands following a drought-induced bark beetle outbreak.</p>	<p>Stuart Cottrell Residents' perceptions of mountain pine beetle impacts on wildland fire management in northern Colorado and southern Wyoming.</p>	<p>Chad Kooistra Understanding residents' concerns and support for forest management and economic development options on public lands after mountain pine beetle outbreaks, in Grand County, Colorado.</p>	<p>Courtney Flint Tracing community responses to bark beetles and fire across regions and time.</p>
Rm B116	<p>Alan Ager Spatial prioritization of restoration and fuel management in fire adapted forest ecosystems.</p>	<p>Wendell Hamm Fire Regime Condition Class (FRCC)—testing of guidebook methods for LANDFIRE.</p>	<p>McRee Anderson Building a sustainable fire management program in Kafue National Park, Zambia, through collaborative fire training exchanges: a case study.</p>	<p>Pamela Padgett Ignition and rates of fire spread of chipped woody material.</p>	<p>Teresa Brennan Effectiveness and effects of mastication fuel treatments in non-forested vegetation of southern California.</p>

2:55 PM Afternoon Break

	2:30 PM	3:25 PM	3:50 PM	4:15 PM	4:40 PM
Rm B117	<p>Anthony Bova The level set method as a tool for modeling wildland fire spread.</p>	<p>Wayne Shepperd Developing a guide to fuels treatment practices for ponderosa pine in the Black Hills, Colorado Front Range, and Southwest: a Joint Fire Science Program success story.</p>	<p>Daniel Donato Bark beetle effects on fuel profiles and wildfire severity in Douglas-fir forests of Greater Yellowstone.</p>	<p>Ian Thomas Fire history of Tasmanian sub-alpine coniferous forests: evidence of forest destruction and regeneration over the past 10,000 years.</p>	
Rm B118	<p>Don Hankins Fire, biodiversity, and cover in the Kaanju Ngaachi Indigenous Protected Area.</p>	<p>Cissy Fowler Mapping the emergence of indigenous fire ecologies, sociality and self.</p>	<p>Kat Anderson California Indian ethnomyecology and associated fire management.</p>	<p>Questions and Answers Further Discussion</p>	
Rm C120	<p>Pete Robichaud After the smokes clears: postfire assessment tools and rehabilitation treatments.</p>	<p>Jonathan Long Blowout at Turkey Spring: severe channel erosion continued 8 years after the Rodeo-Chediski wildfire.</p>	<p>Penny Morgan Plant response to postfire mulch and seeding treatments one to six years after the 2005 School Fire.</p>	<p>Jon Bates Vegetation response to fuel reduction methods in the control of western juniper.</p>	
Rm C121	<p>Kevin Barnett Economic evaluation of alternative wildfire management strategies.</p>	<p>Claire Montgomery Incorporating risk into operations research methods.</p>	<p>Danny Lee Comparative risk assessment and its application to the Cohesive Strategy.</p>		
Rm C122	<p>Susan Hummel Assessing forest vegetation and fire simulation model performance after the Cold Springs wildfire, Washington USA.</p>	<p>David Weise Simulating fire spread in chamise chaparral fuel beds.</p>	<p>Lisa Ellsworth Improved prediction of live and dead fuel moisture in invasive <i>Megathyrus maximus</i> grasslands in Hawaii with Moderate Resolution Imaging Spectroradiometer (MODIS).</p>		<p>Russ Parsons Development of detailed fuels maps for fire behavior analysis via imputation of FIA plot data.</p>
Rm C125	<p>Crystal Kolden Mapped versus actual area burned within wildfire perimeters: characterizing the unburned.</p>	<p>Brian Harvey Spatial heterogeneity of burn severity in northern Rocky Mountain forests (USA) between 1984 and 2011.</p>	<p>C. Alina Cansler Investigating the causes of spatial and temporal variation in burn severity at local and regional scales in the Washington Cascade Range.</p>	<p>Discussion Consideration for Calculating Temporal Trends in Burn Severity from MTBS Data</p>	
Rm C126	<p>Christopher Dow Impacts of landscape fuel treatment design on hazardous fire potential: a comparison of an actual fuel treatment network to a theoretical treatment design.</p>	<p>Emily Booth Effects of pre-wildfire prescribed burns, wildfire intensity, and post-wildfire management on plant regeneration in the Lost Pines of Texas.</p>	<p>Lyndia Hammer A performance test of wildfire burn severity assessments in an oak forest-prairie ecosystem.</p>	<p>Miranda Gray Landscape scale models and maps of fire connectivity in the Sonoran Desert.</p>	<p>Katherine Morrison Understanding the role of wildfire in land cover change in Big Sur, California.</p>

2:55 PM Afternoon Break

WEDNESDAY, 5 DECEMBER

SCHEDULE OVERVIEW

8 AM TO 5 PM

REGISTRATION, ALL DAY
LOBBY



8 TO 10:50 AM

PLENARY SESSION
UPSTAIRS IN THE OREGON BALLROOM



9:20 TO 9:50 AM

MORNING BREAK
UPSTAIRS IN THE OREGON BALLROOM LOBBY



11 TO 11:45 AM

CONCURRENT ORAL PRESENTATION SESSIONS
DOWNSTAIRS IN THE B AND C HALLS



11:50 AM TO 1:05 PM

LUNCH BREAK
On your own. Check out the dining guides
at the end of the program.



1:15 TO 2:45 PM

CONCURRENT ORAL PRESENTATIONS, CONTINUED
DOWNSTAIRS IN THE B AND C HALLS



2:55 TO 3:25 PM

AFTERNOON BREAK
DOWNSTAIRS IN EXHIBIT HALL B



3:25 TO 5 PM

CONCURRENT ORAL PRESENTATIONS, CONTINUED
DOWNSTAIRS IN THE B AND C HALLS

SPECIAL EVENTS

7 TO 7:50 AM

MORNING MEDITATION

David Zimmerman of the San Francisco Zen Center, former director of Tassajara Zen Mountain Center, and author *Colleen Morton Busch* will lead a morning meditation for anyone who would like to join them

DOWNSTAIRS IN ROOM B112



5:15 TO 6:15 PM

AFE MEMBERSHIP MEETING

DOWNSTAIRS IN ROOM B116



6 TO 8 PM

ATTACHED MEETING

Central Oregon Fire History Project

Hosted by *Emily Heyerdahl*

DOWNSTAIRS IN ROOM C128



REMINDER

Don't forget to see the posters!

ALL DAY IN EXHIBIT HALL B

PLENARY SPEAKERS

DR. NEIL SUGIHARA

Neil Sugihara is the Regional Fire Ecologist for the US Forest Service in California. He is a founding member of the AFE and served as the first president from 2000-2002. Neil has contributed to the development of numerous fire ecology conferences and served as chair of several including the first and fifth Fire Ecology and Management Congresses. His strong commitment to the integration of research, education and management is expressed by decades of work integrating fire ecology into land management, adjunct appointments at Humboldt State University and University of California at Davis, and several publications including lead editor of *Fire in California's Ecosystems*.

DR. MONICA TURNER

Monica G. Turner is the Eugene P. Odum Professor of Ecology in the Department of Zoology, University of Wisconsin-

sin-Madison. A native New Yorker, Turner earned her BS in Biology from Fordham University, and her PhD in Ecology from the University of Georgia. Turner's research emphasizes the causes and consequences of spatial heterogeneity in ecological systems and includes long-term studies of the 1988 Yellowstone Fires. She has published over 200 scientific papers, has authored or edited six books, and is co-editor in chief of *ECOSYSTEMS*. Turner was elected to the US National Academy of Sciences in 2004, and she received both the ECI Prize in Terrestrial Ecology and the Ecological Society of America's prestigious Robert H. MacArthur Award in 2008.

DR. PETER FULÉ

Peter Fulé is a professor in the School of Forestry, Northern Arizona University. He has worked in the U.S., Europe, and Latin America on fire ecology and fire-climate research.

	11 AM	11:25 AM	1:15 PM	1:40 PM	2:05 PM
Rm B110	<p>Matt Rollins An overview of past, current, and future LANDFIRE data and products and methods.</p>	<p>Brenda Lundberg LANDFIRE reference data.</p>	<p>Don Long LANDFIRE existing and potential vegetation: classification, mapping, and inventory at a national scale.</p>	<p>Birgit Peterson LANDFIRE existing vegetation cover and height: improving the national products.</p>	<p>Tobin Smail LANDFIRE fuel attributes layer development.</p>
Rm B111	<p>Sarah Trainor In a time of change: the art of fire.</p>	<p>Sarah Trainor In a time of change: the art of fire.</p>	<p>Timothy Ingalsbee Incendiary rhetoric: envisioning alternative science and management terminology to promote public support for fire use and ecological fire management.</p>	<p>Guillermo Defosse The doctoral program on fire ecology and management promoted by the University of Patagonia in Argentina.</p>	<p>Fred Swanson Applying humanities perspectives to wildfire science, policy, and public outreach.</p>
Rm B112	<p>Dennis Odion A meta-analysis of historic and current mixed-severity fire in the drier forests of western North America.</p>	<p>Rosemary Sherriff Comparison of past, present, and future fire potential in montane forests of the Colorado Front Range.</p>	<p>Dominick DellaSala The role of fire mosaics in shaping forest ecosystems: do high severity fires produce "moonscapes?"</p>	<p>Chad Hanson The role of higher-severity fire in suitable habitat for rare and imperiled wildlife species.</p>	<p>Emily Heyerdahl Fire and forest histories in mixed-conifer forests of central Oregon.</p>
Rm B113	<p>Tom Spies Fire-prone landscapes as coupled human and natural systems: an example from the eastern Cascades of Oregon.</p>	<p>Patrick Bourgeron Dynamics of social-ecological systems in the Colorado Front Range: fire regimes, thresholds, and stable states.</p>	<p>Emily Platt Fire management and restoration decision of federal land managers.</p>	<p>Keala Haggmann Landscape-level reference conditions and implications for ecological restoration in south-central Oregon.</p>	<p>Alan Ager Integrating wildfire into the Envision agent-based landscape model.</p>
Rm B114	<p>Bob Zybach The great fires: Indian burning and catastrophic forest fire patterns of the Oregon Coast Range, 1491 to 1951.</p>	<p>Erik Piikkila Railroad logging and historic mega fires in the Pacific Northwest 1846 to 1957: massive multi-decadal fuel buildups, post railroad logging fires, convergence (the perfect storm) of multiple mega-fire conditions, disturbance legacies, and differences between public and private land.</p>	<p>Robert Scheller Long-term effects of fuel treatments and wildfire on forest carbon in a changing climate.</p>	<p>Brian Buma Fire catalyzed regime shifts, carbon sequestration, and climate change: a case for active management?</p>	<p>Garrett Meigs Contemporary mega fires in the Pacific Northwest: what drives the biggest of the big?</p>
Rm B115	<p>Todd Esque Response of the Mojave Desert tortoise to post-fire changes in habitat.</p>	<p>Leslie DeFalco Recovery and rehabilitation of desert tortoise critical habitat in the northeast Mojave Desert.</p>	<p>Jane Kapler Smith Relationships between fire and western invasive plants in the Fire Effects Information System.</p>	<p>David Pyke Role of fire in rangeland restoration.</p>	<p>Megan Friggens The interaction of fire and the spread of invasive pathogens and pests at multiple scales.</p>
Rm B116	<p>Crystal Kolden Fuel treatment effectiveness in a changing climate: a case study from southern California.</p>	<p>Stacy Drury The Interagency Fuels Treatment Decision Support System (IFTDSS): current software tools and data available online for fuels treatment planning.</p>	<p>Mary Taber Use of the Wildland Fire Decision Support System [WFDSS] for implementation of the Greater Yellowstone Coordinating Committee's [GYCC] whitebark pine strategy.</p>	<p>Ryan Haugo An ecological context for "whole system" conservation of fire dependent forests across eastern Washington State.</p>	<p>John Lehmkuhl Strategies for restoring fire resilient landscapes and conserving the threatened northern spotted owl in the eastern Cascade Range of Oregon and Washington, USA.</p>

11:50 AM Lunch Break

	11 AM	11:25 AM	1:15 PM	1:40 PM	2:05 PM
Rm B117	<p>Christine Olsen Fire science users in the US Pacific Northwest: a diverse and dynamic bunch.</p>	<p>Eric Toman Prescribed fire and endangered species: manager decisions regarding the use of fire in critical habitat areas.</p>	<p>Melanie Stidham Community perceptions of fuels management in the wildland-urban interface.</p>	<p>Vita Wright Influences to the adoption of science for fire management.</p>	<p>Reginald Goolsby Providing science to managers: the Francis Marion and Sumter national forest and prescribed fire prioritization model.</p>
Rm B118	<p>John Bailey Scaling up our understanding of fire risk and fuels management.</p>	<p>Matthew Reilly A conceptual model for assessing the ecological effects of contemporary wildfires at regional scales.</p>	<p>Stephen Fitzgerald An uneven-aged management strategy to restore old-growth ponderosa pine forests.</p>	<p>Chris Dunn To restore or re-story: that is the question?</p>	<p>Megan Nuss Production attributes of bioenergy as a lens to view project objectives: a case study of forest restoration in eastern Oregon.</p>
Rm C120	<p>Ian Hyp Comparison of charcoal and tree-ring records of recent fires in the northern Rocky Mountains, Kalispell, Montana, USA.</p>	<p>Steve Hallgren Consumption of oak forest litter by low intensity dormant season prescribed fire.</p>	<p>Phillip Dennison Remote monitoring of age-related seasonal variation in live fuel moisture content of lodgepole pine and big sagebrush.</p>	<p>Citlali Cortes-Montano Old-growth forests of northwestern México: linking history, overstory structure and fire disturbance.</p>	<p>Leland Tarnay Got carbon? Primary productivity and its vulnerability to fire in Sierra Nevada forests.</p>
Rm C121	<p>Tim Brown Three new fire weather/ climate datasets for decision-support and research.</p>	<p>Dave Weise Some effects of simulated crown scorch on loblolly and slash pine.</p>	<p>Tessa Nicolet Fire legacy's role in current and future fire management in the southwestern United States.</p>	<p>Linda Wadleigh When fire size is not the whole story—fire severity in southwestern United States large fires.</p>	<p>Hugh Safford Patterns in Fire Return Interval Departure (FRID) on federal forestlands in California, USA.</p>
Rm C122	<p>Cass Moseley Economic effects of large fires on local labor markets in the American West.</p>	<p>David Seibert Emerging techniques for pre- and post-fire restoration with landscape-scale social and ecological effects in the US-Mexico borderlands.</p>	<p>Richard Halsey A lesson in fire, science and politics: when the understory collides with ideology.</p>	<p>Francisco Seijo Pre-industrial anthropogenic fire regimes in transition: the case of Spain and its implications for future fire governance in Mediterranean type biomes.</p>	<p>Mark Kaib Strategic framework to mitigate wildfire threats and effects to Southwest riparian ecosystem services.</p>
Rm C125	<p>Eva Strand Remote sensing of burn severity along a sagebrush steppe-western juniper successional gradient.</p>	<p>David Pilliod Effects of land treatments on subsequent wildfire and vegetation state transitions in the Great Basin.</p>	<p>Casey Teske Using the Monitoring Trends in Burn Severity (MTBS) data to assess characteristics of fire-on-fire interactions in the northern Rockies.</p>	<p>Andrew Hudak Field and remote assessment of fuel treatment effectiveness at the 2007 Egley Complex in central Oregon.</p>	<p>Mark Cochrane Combining remote sensing and spatial modeling to assess site and landscape level effects of fuels treatments on wildland fire.</p>
Rm C126	<p>Michael Coughlan Historical human-fire-landscape dynamics in the French Western Pyrenees: a Bayesian weights of evidence approach.</p>	<p>Karin Riley Frequency-magnitude distribution of debris flow events compiled from global data, and comparison with post-fire debris flows in the US West.</p>	<p>Stacey Frederick Perceptions of smoke management: survey results from communities near four national forests.</p>	<p>Anna Scofield Determining the relationship between residential development wildfire suppression expenditures in the Rocky Mountain Region.</p>	<p>Rachel Sheridan Combining social and ecological research to develop an integrated fire management plan in <i>P. cembroides</i> forests in rural Mexican communities.</p>

11:50 AM Lunch Break

	2:30 PM	3:25 PM	3:50 PM	4:15 PM	4:40 PM
<p>Rm B110</p> <p>Kori Blankenship LANDFIRE fire regime products.</p>	<p>Joel Connot Disturbance mapping.</p>	<p>Don Long Updating of LANDFIRE vegetation and fuel data using transition modeling.</p>	<p>Kori Blankenship LANDFIRE biophysical setting maps and models.</p>	<p>Concluding Remarks Question and Answers Matt Rollins and Don Long</p>	
<p>Rm B111</p> <p>Molly Mowery Creating fire adapted communities.</p>	<p>K. Arthur Endsley Prescribed burn and wildfire communication on Twitter: identifying and mapping with data mining techniques.</p>	<p>Corey Gucker Gaps in information available to managers regarding fire and invasive plants.</p>	<p>Gary Oram Using the carbon cycle to inhibit global warming: the economic and environmental benefits to burning forest biomass.</p>		
<p>Rm B112</p> <p>Don Falk Understanding climate drivers of past regional-fire years across scales in central Oregon.</p>	<p>Andrew Merschel The current state of mixed conifer forests of the eastern Cascades and Ochoco mountains.</p>	<p>Rachel Loehman A landscape in transition: simulating climate, vegetation, and wildfire interactions in a central Oregon mixed-conifer ecosystem.</p>	<p>Gregg Riegel Applying current research to forest management in central Oregon.</p>		
<p>Rm B113</p> <p>Tony Prato Simulating the effects of land use policy scenarios on wildfire risk in Flathead County, Montana.</p>	<p>Jennifer Koch Developing an agent-based modeling approach to simulate the dynamics in fire-prone landscapes.</p>	<p>Derric Jacobs Social networks in communities around fire-prone forests.</p>	<p>Susan Charnley Variation in forest management for fire across ownerships: implications for forest restoration.</p>	<p>Erik White Fuels management behavior of NIPF landowners in a fire-prone system.</p>	
<p>Rm B114</p> <p>John Abatzoglou Will climate change increase the occurrence of megafires in the western United States?</p>	<p>Bob Zybach Successful predictions of Oregon's 2012 catastrophic wildfire events: methods and results.</p>	<p>Thomas Sensenig Ten year anniversary of the Biscuit Fire.</p>			
<p>Rm B115</p> <p>Jeanne Chambers Resistance to invasive annual grasses in fire prone sagebrush and pinyon-juniper ecosystems: management implications.</p>	<p>Max Smith A burning question: does wildfire interact with invasive plants to reduce the reproductive success of riparian-nesting birds?</p>	<p>Devan McGranahan An invasive cool-season grass reduces fire spread, alters fire regime in a native, warm-season grassland.</p>	<p>Lauren Porensky Selecting the best species and genotypes for restoration in challenging environments.</p>	<p>Tom Kaye Fire as a tool for managing prairie habitats and at-risk species.</p>	
<p>Rm B116</p> <p>Chris Dicus Changes to surface fuels and potential fire behavior following selection harvest in a coast redwood-Douglas-fir forest.</p>	<p>Rick Anderson The river of fire: fire management in the modern Everglades.</p>	<p>Jesse Kreye Ecological effects of mechanical mastication in pine flatwoods ecosystems of Florida, USA.</p>			

2:55 PM Afternoon Break

	2:30 PM	3:25 PM	3:50 PM	4:15 PM	4:40 PM
Rm B117	<p>Bruce Shindler Agency-stakeholder trust in communities at risk of wildfire: planning strategies from Australia, Canada, and the United States.</p>	<p>Sarah McCaffrey Loss of landscape and community health: impacts on local residents one year after the Wallow Fire.</p>	<p>Alan Taylor Self reinforcing patterns of fire severity in a mixed conifer forest landscape, southern Cascades, USA.</p>	<p>Richard Guyette A quantitative method for estimating long-term influence of human ignitions on fire regimes.</p>	
Rm B118	<p>Heather Greaves Characterizing potential effects of climate change on fire and vegetation dynamics in a dry interior Northwest forest.</p>	<p>Garrett Meigs Insects and wildfires across Pacific Northwest forests: a photographic journey through space and time.</p>	<p>Christine Olsen Communicating about smoke: public opinions about information sources and sufficiency.</p>		
Rm C120	<p>Jennifer Barnes Tundra fires in northwestern Alaska: potential impacts of burn severity on vegetation and soil carbon storage.</p>	<p>Sarah Hamman Burning for butterflies: can prescribed fire be used to restore habitat for fire-sensitive species?</p>	<p>Katherine O'Donnell Investigating terrestrial salamander responses to prescribed fire and timber harvest in a Missouri Ozark forest.</p>	<p>Jamie Lydersen Fire effects on forest structure and composition in riparian and adjacent upland areas under an intact modern fire regime.</p>	<p>Andrew Pierce Comparing fuel models for fire behavior prediction with observed fire behavior during a prescribed fire at Hawaii Volcanoes National Park.</p>
Rm C121	<p>Andi Thode Patch sizes and severity: results from the Southwest 2011 and 2012 fire seasons.</p>	<p>Zachary Holden Modeling topoclimatic influences on fuel moisture and fire danger with distributed sensor networks in complex terrain for improved wildland fire management decision support.</p>	<p>Zachary Holden Does decreased orographic enhancement explain declining annual streamflows and recent increases in wildfire fire activity in the Pacific Northwestern US?</p>	<p>Kerry Metlen Forensic forestry to guide restoration in Mediterranean mixed conifer-hardwood forests of southwestern Oregon.</p>	<p>Garren Andrews Post-fire response in a coast redwood-Douglas-fir forest, Santa Cruz Mountains, California.</p>
Rm C122	<p>David Martell The evolution of forest fire management in northeastern Ontario.</p>	<p>Joe Marschall Prescribed fire scars and timber product value loss.</p>			
Rm C125	<p>Eva Karau Integration of satellite imagery with simulation modeling improves burn severity mapping.</p>	<p>Josh Picotte Deriving regional burn severity thresholds from remotely sensed data.</p>	<p>Greg Dillon Thresholds for classifying the RdnBR across the western United States.</p>	<p>Jay Miller dNBR or RdnBR, is there one solution to mapping fire effects?</p>	<p>Discussion What, When, and Where Different Approaches to Burn Severity Mapping Work Best</p>
Rm C126	<p>Kate Wilkin Social relationships and their resulting property types fuel wildland fire outcomes.</p>	<p>Spus Wilder Quantifying forest patterns within the Yakama Nation Tribal Forest and Okanogan-Wenatchee National Forest.</p>			

2:55 PM Afternoon Break

	11 AM	11:25 AM	1:15 PM	1:40 PM	2:05 PM
Rm B110	Kevin Ryan Welcome, background, and session goals.	Robert Keane Integration of ecological principles into land management—what has been done over the last decade and what still needs to be done?	Roger Ottmar Characterizing fuels for fire and fuels management application in the 21st century.	John Cissel Tools and technology: from the developer to the user community in the 21st century.	Jan Engert Technology transfer and communication: from the developers and user communities in the 21st century.
Rm B111	Neil Burrows Mosaic burning for biodiversity conservation in south-west Australian forest ecosystems.	Randall Martin Fire application technique alters fire intensity, severity and post-fire prairie plant communities.	Mike Battaglia Fuel moisture dynamics across developmental stages of northern Rockies forests.	Joe Scott Does one percent of the land area account for ninety-nine percent of the wildfire threat?	Theresa Jain A comprehensive guide to fuels management practices for dry mixed conifer forests in th northwestern United States.
Rm B112	James Minas Multi-period spatial optimization of landscape-level fuel management to minimize wildfire impacts.	Becky Kerns Effects of prescribed burn regime and grazing on eastern Oregon ponderosa pine vegetation and fuels: the season and interval of burn study.	Bruce Roundy Effects of fuel control treatments on vegetation responses across a pinyon-juniper tree invasion gradient.	Jordan Bybee Mechanical shredding as a fire surrogate in restoring sagebrush grasslands.	Camille Stevens-Rumann Challenges to understanding salvage logging: a case study from Arizona.
Rm B113	Ron Steffens Two decades of fuel moisture, wildfires, and climate change: patterns and applications in the Tetons and southern Yellowstone ecosystem.	Jay Miller Do firing operations largely result in severe effects? The evidence from satellite derived severity data.	Stanley Kitchen Climate and human influences on historical fires (1400 to 1900) in the eastern Great Basin (USA).		Anne Ganteaume Spatial and temporal variation of fire in southeastern France.
Rm B114	Gregory Greene Mixed-severity fire regimes in montane forests: the darkwoods of British Columbia.	Phil van Mantgem Climatic stress increases forest fire severity independent of fire intensity.	Daniel Godwin Piping hot: a cheap(er) way to measure fire temperatures.	Ran Meng Remote sensing assessment of vegetation recovery after fire in southern California.	Ping Lu Dynamics of whole tree transpiration of a mixed eucalyptus woodland pre-, during, and post a hot bushfire in the wet-dry tropics.
Rm B115	Deborah Finch Effects of fuel reduction on wildlife populations in New Mexico.	Olivia Duren Fire suppression in southwest Oregon chaparral and oak woodland: same old story of woody species invasion? A look at community response to changing fire regimes and fuels treatments as restoration.	Cheryl Schultz Effects of fire on behavior and demography of an endangered Oregon butterfly.	Jonathan Bakker Fire effects in sagebrush and prairie communities.	Nancy Shaw Native plant seedlings as a tool for restoring sagebrush ecosystems after fire.
Rm B116	McRee Anderson Fanning the flames: the big ideas, bold people, and best practices driving prescribed fire in the United States.	Will Harling Burning in the backyard: the role of prescribed burning in the wildland urban interface.	Malcolm North Using fire to increase the scale, benefits and future maintenance of fuels treatments.	J. Morgan Varner History, accomplishments, and challenges of Prescribed Fire Councils.	Lenya Quinn-Davidson Communities of practice, communities of place: growing prescribed fire councils in the Pacific West.

11:50 AM Lunch Break

	11 AM	11:25 AM	1:15 PM	1:40 PM	2:05 PM
Rm B117	<p>Tom Quigley An introduction of the National Cohesive Wildland Fire Strategy.</p>	<p>Steve Norman Resilient landscapes.</p>	<p>Jason Kreidler Fire adapted communities.</p>	<p>Matthew Thompson Safe and effective response.</p>	<p>Danny Lee Integration and analysis of tradeoffs and risks within the Cohesive Strategy.</p>
Rm B118	<p>Mark Cochrane Forest management implications of recent fuel treatment effectiveness assessments of mitigating landscape level risks from wildfires.</p>	<p>Hugh Safford Sword and shield strategies in frequent-fire conifer forests of California.</p>	<p>Chris Dicus Impacts to fire behavior and ecosystem services following fuel treatments in the WUI.</p>	<p>Owen Price Wildfire mitigation in the landscape or near houses? An Australian perspective.</p>	<p>Phillip Gibbons What are the most effective fuel treatments for protecting houses during wildfires?</p>
Rm C120	<p>Pete Wohlgemuth The effectiveness of mulches for post-fire erosion control in southern California chaparral.</p>	<p>Mical-John Beierle Shortgrass prairie, Texas: a new fire season.</p>	<p>Mary Ellen Miller Rapid Response tools and datasets for post-fire erosion mitigation: lessons learned from the High Park and Rock House fires.</p>	<p>Carter Kinkead Restoring oak woodlands: vegetative response to thinning and burning in the Ozark Highlands.</p>	<p>Leda Kobziar The legacy of 23 years of mechanical fuels treatments and prescribed fire on vegetation in Florida.</p>
Rm C121	<p>Jeffrey Kane Exacerbated synergisms: the potential impacts of increased interactions between fire and other disturbances on tree mortality.</p>	<p>Dave Peterson Managing fuels in a greenhouse world: a framework for adaptation.</p>	<p>Faith Ann Heinsch Challenges and opportunities regarding wildland fire and the wildland-urban interface during the next 20-30 years.</p>	<p>Amy Waltz A comparison of fuel treatment priority scenarios within Arizona's largest wildfire.</p>	<p>Adam Watts Can underlying structure in fire occurrence data predict future wildfires?</p>
Rm C122	<p>Roger Ottmar A data set for fire and smoke model development and evaluation—RxCADRE Project progress.</p>	<p>Erin Banwell BlueSky Playground: a web-based smoke modeling decision support tool.</p>	<p>Stacy Drury Uncertainty in smoke emissions modeling: the Tripod Fire case.</p>	<p>Timothy Johnson First look at smoke emissions from prescribed burns in long-unburned longleaf pine forests.</p>	<p>Shawn Urbanski An emission inventory for western US wildfires: the impact of wildfire specific emission factors.</p>
Rm C125	<p>Russell Graham The Colorado Fourmile Canyon Fire of 2010: behavior, suppression, efficacy of fuel treatments, and the damage it caused.</p>	<p>Randeep Sing Modelling forest fire risk zone for the management of fire in tropical dry deciduous forest, India.</p>	<p>Theresa Jain Index for characterizing post-fire soil environments in temperate coniferous forests.</p>	<p>Paula Formwalt Ten years of overstory stand structure, surface fuel, and tree regeneration dynamics following the 2002 Hayman Fire.</p>	<p>Babatunde Osunmadewa Mapping of fire severity in dry evergreen Afromontane forests of Ethiopia using Landsat data.</p>
Rm C126	<p>Chis Comer Deeprooted sedge (<i>Cyperus entrerianus</i>) seed bank response to prescribed fire and moist soil treatments.</p>	<p>Michael Tiller Effects of Chinese privet, Chinese tallow, and yaupon on surface fuel volatility in east Texas.</p>	<p>Randy Balice Hot-drought impacts to compositions and fire hazards of forests and woodlands in the southwest United States.</p>	<p>Earl Bryan Wildland fuels assessment in the Veluwe region of The Netherlands.</p>	<p>Brian Oswald An overview of the fire ecology and fire management research program at Stephen F. Austin University: 1996 to the present.</p>

11:50 AM Lunch Break

	2:30 PM	3:25 PM	3:50 PM	4:15 PM	4:40 PM
Rm B110	<p>Wildland Fire RD&A Staff Collaborative approaches: ten years of advancement in research collaboration and decision support systems.</p>	<p>Colin Hardy Have definitions and standards for fire severity, hazard, and risk improved since 1999?</p>	<p>Laurie Kurth Training in the latest developments in remote sensing, geographic information systems, and communications technologies.</p>	<p>Facilitated Panel Discussion: The Next Ten Years of Fire Management Colin Hardy and David Peterson</p>	<p>Facilitated Panel Discussion: The Next Ten Years of Fire Management Colin Hardy and David Peterson</p>
Rm B111	<p>Theresa Jain A silviculture system designed to meet fuel and restoration objectives within complex moist forests of the northern Rocky Mountains.</p>	<p>Greg Corace Biological legacy research and management in fire-dependent pine forest ecosystems of northern Michigan.</p>	<p>Jane Park Integrating fire science into ecosystem management in Banff National Park, Banff, Alberta, Canada.</p>	<p>David Godwin The influence of prescribed fire and understory mechanical fuels mastication on soil CO2 efflux in Florida flatwoods forests.</p>	
Rm B112	<p>Robert Keane Spatial scaling of wildland fuels for six forest and rangeland ecosystems of the northern Rocky Mountains, USA.</p>	<p>Jay Lininger Restoration of fire-adapted Southwestern ponderosa pine forests: expediting treatments by conserving large trees.</p>	<p>Susan Kocher Restoring forest lands following the 2007 Angora Fire at Lake Tahoe, in the Sierra Nevada, California.</p>	<p>Neal Enright Fire regime and phenology changes combine to threaten plant species persistence as climate warms.</p>	
Rm B113	<p>Aquila Flower Wildfires and western spruce budworm outbreaks in the interior Pacific Northwest: a multi-century dendrochronological record.</p>	<p>Christopher O'Connor Anthropogenic shifts in fire regimes and species dynamics along a vertical gradient of the Pinaleno Mountains of Arizona.</p>	<p>J. Morgan Varner Correlated fire-adapted traits in southeastern USA oaks.</p>		
Rm B114	<p>Kevin Krasnow Spatial and temporal components of historical fire regimes in Sierran mixed conifer forests, California.</p>	<p>Brandon Collins Severe fire weather and fire activity in the northern Sierra Nevada.</p>	<p>Carl Skinner Fire history of the Ashland watershed, Siskiyou Mountains, Oregon.</p>	<p>Kristen Shive Pre-fire fuel reduction treatments influence plant communities and exotic species nine years after wildfire.</p>	
Rm B115	<p>Robert Greswell Predicting the spatial distribution and potential consequences of postfire debris flows to native trout populations in headwater streams.</p>	<p>Michael Young Much ado about relatively little? The resilience of trout populations to fire.</p>	<p>Michael Doherty Fire severity and plant community dynamics in the montane ecosystems in the Australian Alps.</p>	<p>Christel Kern Persistent legacies of long-past prescribed fire on woody vegetation of red pine (<i>Pinus resinosa</i>) ecosystems.</p>	
Rm B116		<p>Frank Lake Cultural burning practices and traditional ecological knowledge: implications for contemporary fuels and fire management.</p>	<p>Mason McKinley Mobilizing ecological burners —building a grassroots burn program in Puget Sound.</p>	<p>Eric Gdula Innovative uses of Monitoring Trends in Burn Severity (MTBS) data at Grand Canyon National Park</p>	

2:55 PM Afternoon Break

	2:30 PM	3:25 PM	3:50 PM	4:15 PM	4:40 PM	5:05 PM
Rm B117	<p>Steve Norman Challenges of monitoring outcomes of the Cohesive Strategy: long-term and landscape scale considerations.</p>	<p>James Fox Ideas to actions – moving from modeling to implementation.</p>	<p>Jeffrey Prestemon Humans are predictable—a potential advantage in wildfire forecasting.</p>	<p>Jose M. Moreno Challenges for managing forest fires in the Mediterranean under changing human and climate conditions.</p>	<p>Fiona Gibson Using participatory modelling in fire risk management: a case study in central Otago, New Zealand.</p>	<p>Trent Penman Integrated wildfire risk modelling.</p>
Rm B118	<p>Alexandra Syphard Land use planning to reduce housing loss to wildfire in southern California.</p>	<p>CJ Fotheringham The role of urban fuels in structure loss.</p>	<p>Valerie Densmore “WattleitBe?” The role of environmental factors in determining distribution of <i>Acacia</i> spp. after bushfire.</p>	<p>Pete Homann Decadal changes in post-wildfire detritus related to prefire forest structure.</p>		
Rm C120	<p>Jane E. Smith Soil nutrients reduced, soil microbes undaunted by postfire salvage logging.</p>	<p>Eric Knapp Variable intensity salvage logging after fire: effects on natural regeneration, non-native species, and understory diversity.</p>	<p>Mary Huffman FireScape Monterey: moving beyond conflict into the new world of fire.</p>			
Rm C121	<p>Anu Kramer What LiDAR metrics are most important for explaining the occurrence of severe wildfire?</p>	<p>Chuck Rhoades The effects of bark beetle outbreaks and salvage logging on forest development, fuel loads, and potential fire behavior in Colorado lodgepole pine forests.</p>				
Rm C122	<p>SAFE Student Association for Fire Ecology Annual Meeting</p>	<p>SAFE Student Association for Fire Ecology Annual Meeting</p>	<p>SAFE Student Association for Fire Ecology Annual Meeting</p>	<p>SAFE Student Association for Fire Ecology Annual Meeting</p>	<p>SAFE Student Association for Fire Ecology Annual Meeting</p>	
Rm C125	<p>Kent van Wagendonk Factors associated with the severity of intersecting fires in Yosemite National Park, California, USA.</p>	<p>Patrick Brose Fire restoration efforts on the Allegheny Plateau of northwestern Pennsylvania.</p>	<p>Patrick Brose A 400-year fire history for the Pine Creek Gorge region of northcentral Pennsylvania.</p>	<p>Olivia Duren 150 years of landscape-level vegetation change in southwest Oregon and the roles of environment and disturbance.</p>		
Rm C126	<p>Theodore Adams Balancing the benefits of advanced education with the continuance of a career in wildland fire.</p>	<p>Shannon Agner Exposure to knowledge and skills necessary for success in wildland fire through participation in extra-curricular student activities.</p>	<p>Matt Delaney Experiential learning at the University of Montana.</p>	<p>Lloyd Queen Preparing tomorrow’s wildland fire managers.</p>		

2:55 PM Afternoon Break

FRIDAY, 7 DECEMBER

SCHEDULE

ALL FRIDAY EVENTS ARE UPSTAIRS IN THE OREGON BALLROOM

8 AM

ANNOUNCEMENTS AND WELCOME

Session Moderator **Robin Wills**

A Panel Discussion on Future Fire Policy, Trends, and Assumptions

♦

8:20 AM

STEPHEN PYNE

Back to the future: Analogues for the history to come

♦

8:45 AM

MATTHEW ROLLINS

The influence of frequent previous fire occurrence on large fire management

♦

9:10 AM

CRAIG LETZ

A local perspective on fire policy implementation in Central Oregon

♦

9:35 AM

JIM DOUGLAS

The Department of Interior Strategy for Policy Implementation

♦

10 TO 10:15 AM

MORNING BREAK

UPSTAIRS IN THE OREGON BALLROOM

♦

10:20 AM

US FOREST SERVICE REPRESENTATIVE

USFS approach to managing wildfire over the next 20 years

♦

10:45 AM

TOM NICHOLS

Yet another version of federal fire policy: Does it matter?

♦

11:10 AM

Panel Discussion on Future Fire Policy, Trends, and Assumptions

♦

11:30 AM

DR. BRIAN OSWALD

CLOSING REMARKS

♦

11:50 AM

FIRE CONGRESS ADJOURNS

♦

1 TO 5 PM

AFE BOARD MEETING

DOUBLETREE HOTEL ROOM HAMILTON

PLENARY SPEAKERS

ROBIN WILLS

Robin Wills is the Fire Ecologist with the Pacific West Region of the National Park Service. He is a past President of the AFE and is been an active advocate of managing fire in wildland ecosystems.

STEPHEN PYNE

Steve Pyne, professor and resident pyromantic, School of Life Sciences, Arizona State University. Author of over 20 books, most of them concerning fire history and management, including *Fire in America* and *Year of the Fires*.

MATTHEW ROLLINS

Matt Rollins is the wildland fire science coordinator for the USGS, located in Reston, VA. Prior to that he led the wildland fire science team at the USGS Earth Resources Observation and Science Center in Sioux Falls SD. Prior to that he worked for 9 years as a research ecologist at the U.S. Forest Service Missoula Fire Sciences Laboratory in Missoula, MT. His research emphases have included 1) evaluating changes in 20th century wildland fire and landscape patterns under different wildland fire management strategies; 2) integrating biophysical gradient modeling with ecosystem simulation and remote sensing for national level vegetation and wildland fuel mapping applications; and 3) integration of national level wildland fuel and fire regime data into wildland fire management decision support applications and policy. He earned a B.S. in Wildlife Biology in 1993 and an M.S. in Forestry in 1995 from the University of Montana in Missoula, Montana. His Ph.D. was awarded by The University of Arizona in 2000, where he worked at the Laboratory of Tree-Ring Research.

CRAIG LETZ

Craig Letz, Fire Staff Officer, Central Oregon Fire Management Service (Deschutes and Ochoco NFs, Prineville District BLM). A native of Iowa, Craig began his federal career on the Clearwater-Nez Perce National Forest in Idaho and worked Grand Canyon and Crater Lake National Parks before moving to Central Oregon. He holds a BS in Forest Management from Iowa State University.

JIM DOUGLAS

Jim Douglas currently serves as the Senior Advisor to the Department of the Interior Deputy Assistant Secretary for Public Safety, Resource Protection, and Emergency Services. In that role he leads various initiatives on policy, organizational improvement, management efficiency, and information technology services. Previously he has served as the BLM Assistant Director for Fire and Aviation, Deputy Director of the Office of Wildland Fire Coordination, Director of Response Policy in the White House Homeland Security Council, and various fire and emergency management leadership positions in Interior. He was a leader in development of the 1995/2001 federal fire policies and development of national incident response policy, among other initiatives.

TOM NICHOLS

Tom Nichols, Chief, Fire and Aviation Management, National Park Service. As far as I'm aware, I'm the only person who's been a park Fire Management Officer, a NPS Regional Fire Management Officer, as well as a NPS national Fire Management Officer.

DR. BRIAN OSWALD

Regents Professor, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University. Current President of AFE.

POSTER PRESENTATIONS

The following posters will be on exhibit beginning on Tuesday, December 4, at 5:30 PM in the Oregon Convention Center Exhibit Hall B. A poster identification number is provided next to the presenter's name. Abstracts for poster presentations and biographical information for presenters is available in a separate document entitled "Poster presentations." All poster presentation information appears unmodified, as submitted by the corresponding authors.

No.	Presenter	Title
1	Ashley Wells	<i>Burn severity and vegetation response in the Selway-Bitterroot Wilderness Area, 1900-2007</i>
2	Brooke Cassell	<i>Fire History of the Sierra de Manantlán Biosphere Reserve in Western México</i>
3	Christopher Labosier	<i>Relationships between Spatial Patterns of Precipitation and Wildfire Occurrence in the Southeastern United States</i>
4	Dustin Logan	<i>Prescribed burning effects on soil carbon in upland oak forests</i>
5	Ezza Adam	<i>Effect of natural fire on germination and seed storage behavior of <i>Blepharis linariifolia</i></i>
6	Katherine Wyatt	<i>Riparian vegetation and water quality changes in response to prescribed fire on the east side of the Cascades, Washington.</i>
7	Lea Condon	<i>An examination of biological soil crust recovery following fire across the sagebrush steppe of the Intermountain West: Do they follow successional patterns?</i>
8	Maria Castillo	<i>Tree species response to fire: a morpho-functional approach from a mountainous forest in the Sierra de Manantlan, Biosphere Reserve</i>
9	Paulina Llamas-Casillas	<i>Fire Regime in pine-oak and mixed conifer-hardwood forests of The Sierra de Manantlán in Western México.</i>
10	Raphael Chavardes	<i>The sensitivity of tree species at the site and landscape level to disturbance and climate change in the southwest Yukon, Canada</i>
11	Susanne Ranseen	<i>The Schultz Fire: A look at historic management effects of fire severity in dry forested systems.</i>
12	Timothy Assal	<i>Assessment of Burn Severity and Post-Fire <i>Araucaria-Nothofagus</i> Regeneration in Tolhuaca National Park</i>
13	Collin Haffey	<i>Conceptual Model of Tree Regeneration Following Stand Replacing Fires in Arizona and New Mexico Forests</i>
14	Masahiro Ohnishi	<i>Influence of fire and succession of microbial communities after disturbance in the Chihuahuan Desert grasslands</i>
15	Peter Duerkop	<i>Quantifying the Effectiveness of Prescribed Fire Regimes to Restore Midwestern Oak Savanna</i>
16	University of Idaho Student Association for Fire Ecology	<i>University of Idaho S.A.F.E. Nebraska Service Learning Trip Spring 2012</i>
17	Rebecca Ramsey	<i>Post-fire microsite selection of <i>Pseudotsuga menziesii</i> seedlings as influenced by burn severity, aspect, and elevation</i>
18	Sharon Reid	<i>Habitat suitability for rehabilitated wildlife after fire.</i>
19	Bridget Cullinane Anthony	<i>Bird diversity patterns within remnant patches of biological legacies in jack pine dominated landscapes of northern Lower Michigan</i>
20	Chad Kooistra	<i>Understanding landscape change and recovery chronosequences after wildfires: A proposed interdisciplinary approach</i>
21	Elizabeth Bauer	<i>Removal of native seeds after wildfire in sagebrush habitat</i>
22	Gary Oram	<i>Using the carbon cycle to inhibit global warming: the environmental and economical benefits to burning biomass.</i>
23	Karen Palmer	<i>Modeling long-term changes to the ponderosa pine forests of Grand Canyon National Park</i>
24	Katelynn Jenkins	<i>Aspen regeneration and stand dynamics on the Schultz Fire, Coconino National Forest, AZ</i>
25	Melissa DeSiervo	<i>Inventory and monitoring of postfire forest succession on serpentine and non-serpentine soils of the Rich Fire, Plumas National Forest. 2012.</i>
26	Michelle Agne	<i>The effect of mountain pine beetle and dwarf mistletoe on canopy structure and fire behavior in Oregon lodgepole pine forests</i>
27	Alexandria Whann	<i>University of Florida SAFE Chapter, 2012-2013</i>
28	Daniel Godwin	<i>University of Missouri - Columbia SAFE Chapter Poster</i>

POSTER PRESENTATIONS, CONTINUED

No.	Presenter	Title
29	Eric Gdula	<i>Innovative Uses of Monitoring Trends in Burn Severity (MTBS) data at Grand Canyon National Park.</i>
30	Holly Bonine	<i>Central Texas Student Association for Fire Ecology</i>
31	Jena DeJulio	<i>Monitoring fuels treatments in southern Oregon mixed chaparral and oak woodlands</i>
32	Kevin Moriarty	<i>Colorado State University Student Association for Fire Ecology</i>
33	Kevin Vogler	<i>Oregon State University SAFE Chapter</i>
34	Stephen Goodfellow	<i>Stephen F. Austin State University SAFE Chapter</i>
35	Valentijn Hoff	<i>University of Montana Chapter of SAFE</i>
36	Adam Hernandez	<i>Are we Safer?</i>
37	Brett Watson	<i>Wind-driven fire spread and flammability characteristics of eight northern California species</i>
38	Gregory Dillon	<i>Potential for high severity fire: a new 30m raster dataset for the western United States</i>
39	Robert Kremens	<i>Estimation of the total radiant heat release from a wildland fire using temporally undersampled airborne infrared observations</i>
40	Enrique Jardel-Pelaez	<i>Potential fire regimes and fire management in Mexico</i>
41	Amanda Stan	<i>Evaluating the probability of fire in a ponderosa pine forest in the southwestern U.S. using logistic regression and multi-model inference</i>
42	Anastasia Steffen	<i>ArcBurn: Linking field-based and experimental methods to quantify, predict, and manage fire effects on cultural resources</i>
43	André Arsenault	<i>Response of the understory plant community to prescribed fire, screefing, grazing and logging in dry interior Douglas-fir forests of southern British Columbia.</i>
44	Bikash Mishra	<i>Effects of fire on ability of seedlings to grow into saplings in Sal (Shorea robusta Gaertn. F) Forest in Sabaiya Collaborative Forest, Parsa, Nepal</i>
45	Diana Olson	<i>Boreal Forest Fire History in Alaska: Review, Synthesis and Data Compilation</i>
46	Garren Andrews	<i>Developing post-fire mortality predictive models for the major overstory tree species in the Santa Cruz Mountains of California</i>
47	Guillermo Defossé	<i>Wildfire history and prospective changes in fire regimes of Patagonia, Argentina</i>
48	Jesse Kreye	<i>Towards a mechanism for eastern deciduous forest mesophication: the role of litter drying</i>
49	Joshua Mueller	<i>Relative Role of Fuel Source Fluctuations on Disturbance Fire Regimes within Mesic Deciduous and Oak-Savannah Forests in Southern Wisconsin, USA</i>
50	Kealohanuiopuna Kinney	<i>Fire regime facilitates unexpected nutrient limitation in Hawaiian subalpine dry forest?</i>
51	Marc Meyer	<i>Post-fire vegetation change in singleleaf pinyon pine woodlands of the eastern Sierra Nevada</i>
52	Marti Witter	<i>FIRE EFFECTS IN COASTAL SAGE SCRUB IN CHANNEL ISLANDS NATIONAL PARK</i>
53	Michael Johnson	<i>Fire Atlas Development - US Fish and Wildlife Service Southwest Region</i>
54	Michael Stambaugh	<i>The Trace of Fire in Eastern Native America</i>
55	Michelle Steen-Adams	<i>Environmental History of Fire-Prone Ecosystems across Ownerships in the Eastern Oregon Cascades (1905-2010): Effects of Past Land-Use, Management, and Fire Culture on Current Forest Condition and Fire Risk</i>
56	Renaud Barbero	<i>An Objective Examination of Santa Ana Wind Events and Wildfires in Southern California</i>
57	Robin Verble-Pearson	<i>Fire and Ants in Ozark Forests</i>
58	Stacy Drury	<i>Real-Time Analysis of Fire Weather Prediction Accuracy: Year 2 Progress</i>
59	Stanley Kitchen	<i>Historic Quaking Aspen Fire Regimes in Utah (USA) Forests</i>
60	Susan Cordell	<i>Practical tools for managing fire and restoring tropical dry forest landscapes on military lands in the Pacific</i>
61	Rachael Kropp	<i>Monitoring Seasonal Variation of Foliar Heat Content in Big Sagebrush</i>
62	Raymond Davis	<i>Habitat for Large Wildfires versus Habitat for Northern Spotted Owls</i>
63	Alison Dean	<i>In and Out: Opportunistic Rapid Monitoring Ahead of the Pole Creek Fire</i>

POSTER PRESENTATIONS, CONTINUED

No.	Presenter	Title
64	Amy Livingston	<i>Fuel moisture differences in a California mixed native/ non-native grassland: Implications for fire regimes</i>
65	Ernesto Alvarado-Celestino	<i>Physical Properties of Downed Woody Debris in Mexican Ecosystems</i>
66	Eugene Schupp	<i>Effects of Sagebrush Fire and Fire Surrogate Treatments on a Great Basin Seed Bank Community</i>
67	Jane Kertis	<i>Tree recruitment following wildfire in a mountain hemlock forest, Oregon Cascades</i>
68	Jon Bates	<i>Livestock grazing after fire in the sagebrush steppe</i>
69	Laura Peterson	<i>What do I monitor? How to use your objectives effectively.</i>
70	Lisa Saperstein	<i>Alaska Wildfire Research Needs: Connecting Scientists and Managers</i>
71	Don Helmbrecht	<i>Assessing Wildfire Risk to Diverse and Resilient Vegetation on the Bridger-Teton National Forest</i>
72	Mary Miller	<i>Modeling Post-fire Erosion: Linking Remote Sensing and a Process-based Hydrological Model for Post-fire Remediation: High Park Fire, CO</i>
73	Linda Chappell	<i>How do you get the monitoring done? Use a Partnership.</i>
74	Paula Fornwalt	<i>The Front Range Forest Reconstruction Network: Reconstructing Forest Structure and Fire History in Front Range Montane Forests to Inform Forest Restoration Activities</i>
75	Scott Shaff	<i>Short-term results from arid SageSTEP (Sagebrush Steppe Treatment Evaluation Project) fuel treatments</i>
76	Alan Ager	<i>Analyzing the transmission of wildfire risk on fragmented landscapes</i>
77	Anthony Bova	<i>Development and Evaluation of the Physics-based Wildland-Urban Interface Fire Dynamics Simulator</i>
78	Morris Johnson	<i>Linking the Forest Vegetation Simulator and the Fuel Characteristic Classification System to improve fuel quantification and fire behavior predictions</i>
79	Kevin Vogler	<i>Quantifying the availability of woody biomass from fuel reduction and forest health thinning on federally owned land in Oregon, Washington, Montana, and Idaho</i>
80	Kori Blankenship	<i>LANDFIRE: Data for Land Management</i>
81	Benjamin Butler	<i>Wildland Fire Decision Support System – Spatial Data Acquisition, Integration, and Management</i>
82	Chelene Krezek-Hanes	<i>Improving the Canadian Forest Fire Danger Rating System Fuel Moisture Codes with RADARSAT-2 data</i>
83	Alan Long	<i>Southern Fire Exchange: Putting Fire Science on the Ground</i>
84	Andrea Thode	<i>Southwest Fire Science Consortium</i>
85	Elizabeth Pickett	<i>Pacific Fire Science Consortium - The Hottest Partnership in the Pacific</i>
86	Emily Comfort	<i>Northern Spotted Owl use of fire created and managed forest edges in southwest Oregon dry conifer forests</i>
87	Emily Comfort	<i>Collaboration and fire management: creating new trajectories for disturbed landscapes.</i>
88	Eugenie MontBlanc	<i>Great Basin Fire Science Delivery</i>
89	Eva Karau	<i>Hazardous Fuels Prioritization and Allocation System</i>
90	Guillermo Defossé	<i>Post-Fire Ecological Restoration in Southern Temperate Forests of <i>Nothofagus pumilio</i> in Patagonia, Argentina</i>
91	Hannah Spaul	<i>Tallgrass Prairie and Oak Savanna Fire Science Consortium</i>
92	Helen Mohr	<i>SCIENCE DELIVERY IS A TWO-WAY STREET – DEVELOPMENT OF THE CONSORTIUM OF APPALACHIAN FIRE MANAGERS AND SCIENTISTS (CAFMS)</i>
93	Jane Smith	<i>Soil microbes undaunted, soil nutrients reduced by postfire salvage logging</i>
94	Jennifer Northway	<i>The Alaska Fire Science Consortium: Bridging the Gap in Fire Science Delivery</i>
95	Jessica Hudec	<i>Landscape-level fuels treatment strategies in the Pacific Northwest, USA</i>
96	Jonathan Long	<i>Synthesizing science to promote long-term socio-ecological resilience in the Sierra Nevada Bioregion</i>
97	Kristen Miller	<i>UWSP Fire Crew: A Mechanism for Restoration, Suppression and Preparing the Next Generation of Fire Managers</i>

POSTER PRESENTATIONS, CONTINUED

No.	Presenter	Title
98	Kristine Lee	<i>The Fire Modeling Institute: a Success Story in the Integration of Fire Science into Management</i>
99	Kyle Lapham	<i>Neighbors Helping Neighbors: Fire Training Exchanges Spread Like Wildfire</i>
100	Mary Huffman	<i>“Building the Airplane while You’re Flying It” - What today’s fire planners say about their profession and the training they want.</i>
101	Mike Stambaugh	<i>Sharing fire science information about eastern oak woodlands and forests</i>
102	Mike Battaglia	<i>Short-term ecological effects of mastication fuels reduction treatments in Colorado</i>
103	Pete Lahm	<i>Linking Visual Range, PM2.5 Concentrations, and the Air Quality Index - What do we tell the PUBlic in Smoke-Filled Wildfire Situations?</i>
104	Reginald Goolsby	<i>Providing science to managers: the Francis Marion and Sumter National forest prescribed fire prioritization model</i>
105	Rich Fairbanks	<i>Firefighters United for Safety, Ethics, and Ecology (FUSEE): Torchbearers for a New Fire Management Paradigm</i>
106	Sarah Hamman	<i>The Washington Prescribed Fire Council: Developing opportunities for collaboration and cooperation to enhance the safe, effective and appropriate use of prescribed fire throughout Washington</i>
107	Sarah Heide	<i>Developing and Implementing a Neighborhood Fuelbreak in the Foothills North of Boise Idaho</i>
108	Sherry Leis	<i>Great Plains Fire Science Exchange</i>
109	Tim Kline	<i>California Fire Science Consortium - Poster</i>
110	Anne Ganteaume	<i>Comparison of flammability of litters sampled according to two different methods</i>
111	Vita Wright	<i>The Northern Rockies Fire Science Network—Enhancing science delivery and application</i>
112	Cameron Balog	<i>First Order Fire Effects Burning Invasives along the Rio Grande River, TX</i>
113	Cameron Balog	<i>The National Fire Plan Build-Up: A Good Deal?</i>
114	Clinton Wright	<i>The Piled Fuels Biomass and Emissions Calculator</i>
115	Clinton Wright	<i>Measuring the effects of slash pile burning and how fire effects change as piles age</i>
116	Janean Creighton	<i>The Northwest Fire Science Consortium: Facilitating knowledge exchange and collaboration</i>
117	Janean Creighton	<i>Joint Fire Science Program: Knowledge Exchange Consortia</i>
118	Nicole Vaillant	<i>Fuel treatment effects on carbon stocks in Californian coniferous forests over time</i>
119	Nicole Vaillant	<i>The JFSP Crown Fire Behavior Synthesis Project Wants Your Input!</i>
120	Nicole Vaillant	<i>Fuel Treatment Planning with the Landscape Treatment Designer (LTD)</i>

RESTAURANTS NEAR THE OREGON CONVENTION CENTER, DOUBLETREE, CROWNE PLAZA, AND COURTYARD MARRIOTT HOTELS

COFFEE

City Coffee: 650 NE Holladay
Sharif's Coffee: 51 NE Holladay
Starbucks: 535 NE Grand Ave
Grand Central Bakery: 15th & Weidler



CASUAL DINING

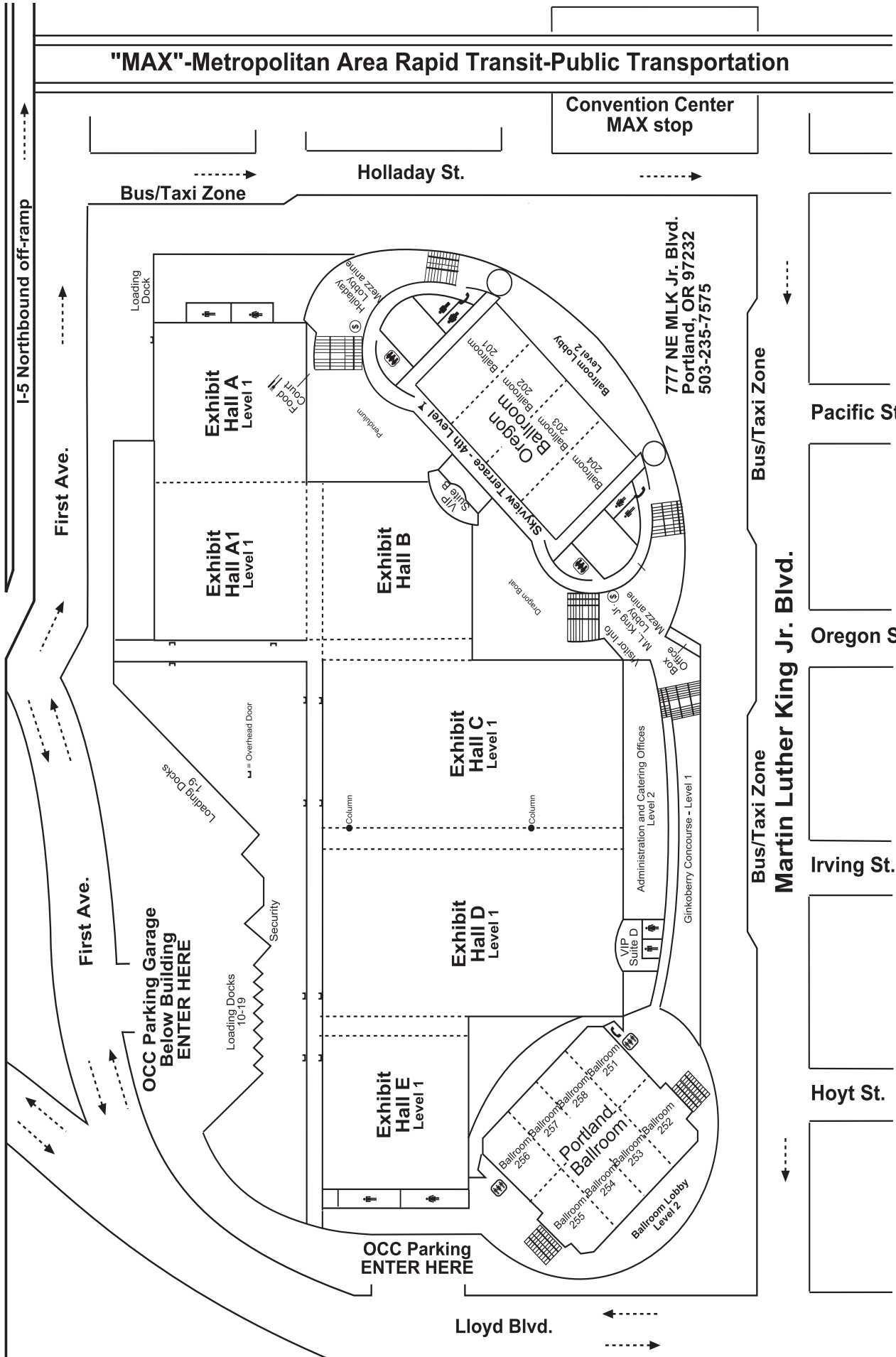
Mudai's Ethiopian: 801 NE Broadway
Frank's Noodles (Asian): 822 NE Broadway
Pho Broadway (Vietnamese): 835 NE Broadway
Pizza Schmizza Pub & Grub: 628 NE Broadway
Umi Sushi: 914 NE Broadway
Chen's Dynasty II (Chinese): 1025 NE Broadway
Newport Seafood Grill: 1200 NE Weidler
Milo's Cafe: 1325 NE Broadway
Yuki's (Sushi & Japanese): 1345 NE Broadway
Petisco (Sandwiches): 1411 NE Broadway
Chai Yo's (Thai): 1411 NE Broadway St #B
Pastini (Italian): 1426 NE Broadway
McMenamin's (Pub): 1500 NE Broadway
Aztec Willie's (Mexican): 1501 NE Broadway
Blossoming Lotus Cafe (Vegan): 1713 NE 15th Ave @ Broadway
Red Robin: 1139 NE Grand Ave.
J Café: 533 NE Holladay
Hoyt Street Station Community Café (dine in/take out): 622 NE Grand Ave.

FAST FOOD

Chipotle: 710 NE Weidler St.
Muchas Gracias: 707 Weidler
Belagio's Pizza: 815 NE Weidler
Wendy's : 1421 NE Grand Ave
Burgerville: 1135 NE MLK Ave
Subway: 1211 NE MLK Ave
Qdoba Mexican Grill: 825 NE Weidler
Quizno's Subs: 11th Ave. & NE Holladay
Lloyd's Center Food Court (Mall food): 9th Ave. & Multnomah St.

UPSTAIRS FLOORPLAN FOR THE OREGON CONVENTION CENTER

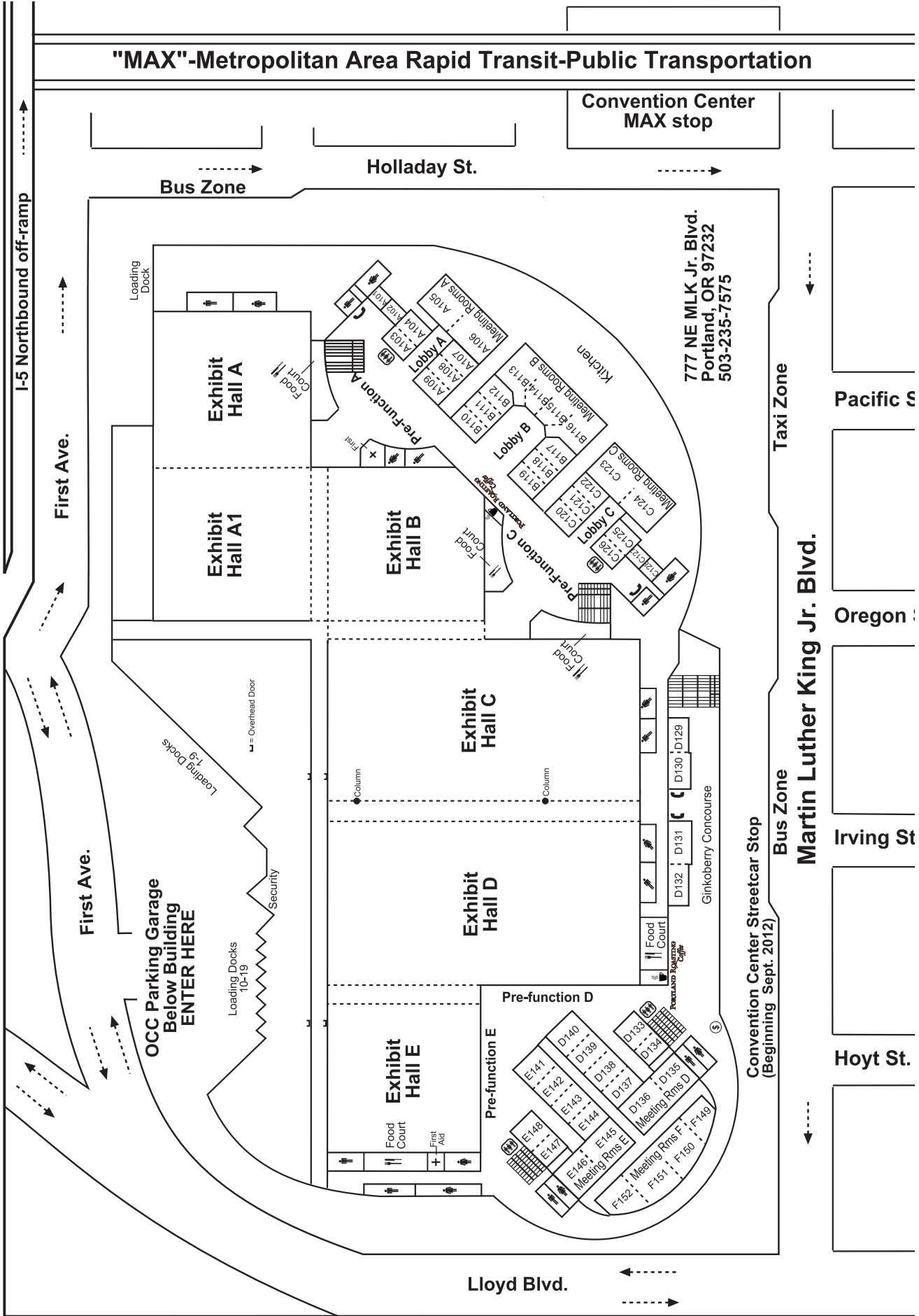
Interstate 5



DOWNSTAIRS FLOORPLAN FOR THE OREGON CONVENTION CENTER

Interstate 5

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Pacific S

Oregon

Irving St

Hoyt St.

**5TH INTERNATIONAL FIRE ECOLOGY AND MANAGEMENT CONGRESS
WELCOME TO PORTLAND!**

TRANSPORTATION ROUTES TO AND FROM OREGON CONVENTION CENTER (OCC) VIA MAX LIGHT RAIL & WALKING

FROM OCC TO DOUBLETREE:

MAX: Board the MAX at OCC MAX Station on Holladay. Board any Blue, Green, or Red line train; disembark at Lloyd Center/NE 11th Avenue MAX Station (second stop). As you exit the train, DoubleTree is across the street on your left.

Walking: From the northeast corner of OCC, head east on Holladay Street; the hotel will be on your left (0.3 miles or 6 minutes).

FROM DOUBLETREE TO OCC:

MAX: Exit hotel main lobby, turning left to the street, then turn right on 11th Avenue and go to the corner at Holladay Street. Cross at the light and board any westbound Blue, Red, or Green line train. Disembark at the OCC (2 stops).

Walking: Exit hotel same as above, then turn right on Holladay Street and walk to OCC (0.3 miles, 6 minutes).

FROM OCC TO CROWNE PLAZA:

Walking: Walk 0.2 miles north on MLK Boulevard. Turn left on Wasco Street, then turn right on 2nd Avenue. Walk a short distance north; the hotel is located on the left (0.4 miles, 7 minutes).

FROM CROWNE PLAZA TO OCC:

Walking: Take a right out of hotel. Walk a short distance south on NE 2nd Avenue, then turn left on Wasco Street. Turn right on MLK Boulevard. (0.4 miles, 7 minutes).

FROM OCC TO COURTYARD/LLOYD CENTER MARRIOTT:

Walking: Walk 0.2 miles north on MLK Boulevard. Turn right on Wasco Street. Walk a short distance east; the hotel is located on the left (0.2 miles, 4 minutes).

FROM COURTYARD/LLOYD CENTER MARRIOTT TO OCC:

Walking: Take a left out of hotel. Turn right on Wasco Street, then turn left on MLK Boulevard (0.2 miles, 4 minutes).

MAX INFORMATION:

MAX trains run every 7 to 15 minutes. Operating hours from Monday through Friday are 4 AM to midnight.

MAX from OCC to Downtown:

You will be heading West/South. The front of the trains will indicate:

MAX Blue Line to Portland City Center/Hillsboro
MAX Green Line to Portland City Center/PSU
MAX Red Line to Portland City Center/Beaverton

MAX from Downtown to OCC:

You will be heading East/North. The front of the trains will indicate:

MAX Blue Line to Gresham
MAX Green Line to Clackamas
MAX Red Line to Airport

MAX service to PDX Airport:

The trip from downtown Portland to PDX takes about 38 minutes and requires an "All-Zone" fare (\$2.50 Adult, \$1 Honored Citizen, or \$1.50 Youth/Student). You can easily roll your luggage on board. The first train of the day arrives at PDX at 4:58 AM on weekdays and 5:04 AM on weekends. The last train departs PDX at 11:49 PM.

