

# Rx-510 ADVANCED FIRE EFFECTS

## NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

**Monday**  
**February 11, 2013**

<b>0800 – 0815</b>	<b>- NAFRI Welcome</b>	<b>Gary Luce</b>
<b>0815 – 0905</b>	<b>- Introduction and Expectations for Rx510</b>	<b>Stu Hoyt</b>
<b>0915 – 0920</b>	<b>- UNIT I INTRODUCTION</b>	<b>Unit Leader: Blane Huemann</b>
<b>0920 – 1010</b>	<b>- I-A Guidance for Implementation of Federal Wildland Fire Policy</b>	<b>Erik Christensen/ Frankie Romero (VTC)</b>
<b>1020 – 1110</b>	<b>- I-B Should Climate Change Affect our Fire and Vegetation Management Practices?</b>	<b>Alan Taylor</b>
<b>1120 – 1210</b>	<b>- I-C Ecological Assessments, Adaptive Management, and Collaboration</b>	<b>Tonja Opperman</b>
<b>1210 – 1310</b>	<b>- Lunch (Faculty Panel)</b>	
<b>1310 – 1400</b>	<b>- I-D Integrating Ecosystem Service Valuation in Fire Management</b>	<b>David Saah</b>
<b>1410 – 1415</b>	<b>- UNIT II – ECOLOGICAL AND CULTURAL CONTEXT</b>	<b>Unit Leader: Joe O'Brien</b>
<b>1415 – 1505</b>	<b>- II-A Fire as a Landscape Process</b>	<b>Don Falk</b>
<b>1515 – 1605</b>	<b>- II-B Fire and Invasive Plants</b>	<b>Jane Kapler Smith</b>
<b>1615 – 1645</b>	<b>- VI Peer Learning Group</b>	<b>Dave Mueller</b>
<b>1700 – 1730</b>	<b>- Faculty Meeting</b>	<b>Faculty</b>

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## NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

Tuesday  
February 12, 2013

0800 – 0815	-	Daily Objectives	Stu Hoyt
0815 – 0905	-	II-C Landscape Patterns and Ecological Processes Created by Fire: A Wildlife Habitat Perspective	David Pilliod
0915 – 1005	-	II-D Reading the Landscape – Historical Context and Reference Conditions	Alan Taylor
1015 – 1105	-	II-E Traditional Knowledge – Forgotten Fires	Frank Lake (VTC)
1105 – 1205	-	II-F Public Acceptance of Prescribed Fire: What Matters and Why?	Sarah McCaffrey (VTC)
1205 – 1305	-	LUNCH (Brown Bag)	Faculty Panel
1305 – 1355	-	VI Peer Learning Group	Dave Mueller
1405 – 1410	-	UNIT III – MONITORING, EVALUATION, AND ADAPTIVE MANAGEMENT Unit Leader: Tim Menard	
1410 – 1500	-	III-A Developing a Monitoring Program You Can Live With	Diane Abendroth
1510 – 1600	-	III-B Fire Monitoring Program: Marais des Cygnes NWR	Tim Menard
1610 – 1700	-	III-C Alaska Fire Management & Monitoring: Vast Areas, Large Fires, and Limited Staff	Jennifer Barnes
1715 – 1745	-	Faculty Meeting	Faculty

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## NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

**Wednesday  
February 13, 2013**

<b>0745 – 0800</b>	<b>- Daily Objectives</b>	<b>Stu Hoyt</b>
<b>0800 – 0850</b>	<b>- III-D Everglades National Park</b>	<b>Rick Anderson</b>
<b>0900 – 0950</b>	<b>- III-E Fuel Treatment Effectiveness</b>	<b>Jim Menakis</b>
<b>0950 – 1005</b>	<b>- RX510 Class Photo</b>	
<b>1005 – 1010</b>	<b>- UNIT IV – TREATMENT DESIGN AND APPLICATION</b>	<b>Unit Leader: Riva Duncan</b>
<b>1010 – 1100</b>	<b>- IV-A Landscape-Scale Prioritization of Fire in the SE</b>	<b>James Furman</b>
<b>1110 – 1200</b>	<b>- IV-B Implementing Fire Regimes in Wildland Remnants: Problems and Pitfalls</b>	<b>Joel Carlson</b>
<b>1200 – 1300</b>	<b>- LUNCH (Brown Bag)</b>	<b>Faculty Panel</b>
<b>1300 – 1350</b>	<b>- Video – Catching Fire: Prescribed Burning in Northern California</b>	
<b>1405 – 1455</b>	<b>- VI Peer Learning Group</b>	<b>Dave Mueller</b>
<b>1505 – 1555</b>	<b>- IV-C Burning Coniferous Forests in Banff National Park</b>	<b>Ian Pengelly</b>
<b>1605 – 1655</b>	<b>- IV-D Air Quality and Smoke Management</b>	<b>Susan O’Neill</b>
<b>1700 – 1730</b>	<b>- Faculty Meeting</b>	<b>Faculty</b>

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## NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

Thursday  
February 14, 2013

0800 – 0815	-	Daily Objectives	Stu Hoyt
0815 – 0905	-	V-B Post-Fire Evaluation Tools, Erosion and Rehabilitation Strategies	Pete Robichaud (VTC)
0915 – 1005	-	IV-E Rehabilitation of Aspen Forests: Treatment Options Involving Fire	Bob Campbell
1015 – 1105	-	IV-F The Gulf Coastal Plains Ecosystem Partnership	James Furman
1115 – 1120	-	UNIT V – FIRE EFFECTS CONSIDERATIONS IN WILDFIRE MANAGEMENT	Unit Leader: Helen Smith/Mark Jackson
1120 – 1210	-	V-A Planning for Unplanned Ignitions	Mark Pater
1210 – 1310	-	LUNCH (Brown Bag)	Faculty Panel
1310 – 1400	-	V-C Remote Sensing of Fire Effects	Jay Miller
1410 – 1500	-	VI Peer Learning Group	Dave Mueller
1510 – 1600	-	V-D Wildfire Effects on Stream Temperatures & Fish Populations in a Changing Climatic Context	Dan Isaak (VTC)
1615 – 1645	-	Faculty Meeting	Faculty

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## NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

Friday  
February 15, 2013

0745 – 0800	-	Daily Objectives	Tim Menard
0800 – 0850	-	V-E Landscape Fire Program	Linda Chappell
0900 – 0950	-	V-F Long Duration Fires, Managing to Meet Objectives	Stu Hoyt
1000 – 1030	-	Final Exam	Helen Smith
1030 – 1100	-	Closeout	Stu Hoyt
1230 – 1700	-	Steering Committee Meeting	Steering Committee

**Rx510 ADVANCED FIRE EFFECTS**  
**February 11 – 15, 2013**  
**Tucson, Arizona**

**STEERING ROSTER**

**Rick Anderson**

Fire Management Officer  
Everglades National Park

**Riva Duncan**

Forest Fire Management Officer  
National Forests in North Carolina

**Blane Heumann**

Director of Fire Management  
WO Conservation

**Stu Hoyt, Steering Chair**

Regional Fuels Specialist  
US Forest Service

**Mark Jackson**

BIA Associate Director - Fire Use & Fuels  
Bureau of Indian Affairs, NIFC

**Gary Luce**

Course Coordinator  
US Forest Service, NAFRI

**Tim Menard**

Wildlife Biologist  
Flint Hills & Marais des Cygnes NWR

**Dave Mueller**

National Fuels Program Lead  
Bureau of Land Management, NIFC

**Joseph O'Brien**

Research Ecologist  
US Forest Service

**Helen Smith**

Ecologist  
Rocky Mountain Research Station

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February 11 – 15, 2013

Tucson, Arizona

## FACULTY ROSTER

**Diane Abendroth**

Fire Ecologist  
Teton Interagency Fire

**Bob Campbell**

Ecologist  
Fishlake National Forest

**Linda Chappell**

Fire Ecologist  
Fishlake National Forest

**Don Falk**

Associate Professor  
University of Arizona

**Dan Isaak**

Research Fisheries Scientist  
RMRS, 4354 - Air and Water  
Boise Aquatic Sciences Lab

**Frank Lake**

Research Ecologist  
US Forest Service

**Jim Menakis**

National Fire Ecologist  
US Forest Service

**Susan O'Neill**

Research Air Quality Engineer  
Pacific Wildland Fire Sciences Lab

**Mark Pater**

Fire Ecologist  
Bureau of Land Management

**David Pilliod**

Research Ecologist  
Snake River Field Station

**Frankie Romero**

Fuels and Fire Use Program Specialist  
US Forest Service

**Alan Taylor**

Professor of Geography  
Pennsylvania State University

**Jennifer Barnes**

Regional Fire Ecologist  
Alaska Region

**Joel Carlson**

Consultant  
Northeast Forest & Fire Mgmt., LLC

**Erik Christiansen**

Fuels Mgmt. and Biomass Coordinator  
US Dept of the Interior  
Office of the Secretary/Wildland Fire

**James Furman**

Wildland Fire Program Manager  
DOD USAF AFMC

**Jane Kapler Smith**

Ecologist  
RMRS 4405 - Fire  
Fire, Fuels, & Smoke Science Program

**Sarah McCaffrey**

Research Social Scientist  
Northern Research Station

**Jay Miller**

Remote Sensing Specialist  
Pacific Southwest Region - FAMSAC

**Tonja Opperman**

Lead Fire Application Specialist  
State & Private Forestry (WO)

**Ian Pengelly**

Fuels & Fire Mgt. Planning (Retired)

**Pete Robichaud**

Research Engineer  
Moscow Forestry Sciences Lab

**David Saah**

Assistant Professor of Research  
University of San Francisco

**RX510 ADVANCED FIRE EFFECTS**  
**February 11 - 15, 2013**  
**Tucson, Arizona**

**PARTICIPANT ROSTER**

**Todd Bates**  
Engine Captain  
Lake Mead NRA

**Ron Brewer**  
Forestry Technician  
Cleveland National Forest

**James Carr**  
Forestry Technician  
Apache-Sitgreaves National Forest

**Gary Cones Jr.**  
Forestry Technician  
Stanislaus National Forest

**Scott Crist**  
Fire Management Officer  
Land Between the Lakes NRA

**Daniel Eddy**  
Forestry Technician  
Siuslaw National Forest

**Christopher Friar**  
Fire Specialist  
Alaska Fire Service

**Jeff Handel**  
Fire Management Officer  
Nez Perce Tribe

**Nicholas Jeros**  
Supervisory Fire Engine Ops  
Stanislaus National Forest

**Quentin Johnson**  
Gen Biological Science  
Kaibab National Forest

**Lisa McDonald**  
Fuels Technician  
Apache-Sitgreaves National Forest

**Benjamin Bernal**  
Fuels Technician  
Kootenai National Forest

**Greg Campbell**  
Fire Management Specialist  
Butte Field Office

**Thad Chavez**  
West Zone AFMO  
Grand Mesa/Uncompahgre/Gunnison NFs

**James Courtright**  
AFMO  
Zion National Park

**Phillip Dye**  
Fire Captain  
Milpitas Fire Department

**Jay Fassett**  
District Fuels Officer  
Shasta-Trinity National Forest

**Jeff Gies**  
Zone Fuels AFMO  
Black Hills National Forest

**Christian Huhnerkoch**  
Operations AFMO  
Black Hills National Forest

**Eric Johnson**  
Fire Management Specialist  
Eugene District

**Anthony Martinez**  
District AFMO  
Carson National Forest

**Jose Mercado**  
Forestry Technician  
Willamette National Forest

**Seth Odell**  
Supt 1  
Plumas National Forest

**Dennis Page**  
Forestry Technician  
Pike & San Isabel National Forests

**Cindy Petrich**  
Forest Technician - Prevention  
Cleveland National Forest

**Tim Sampson**  
Fire Management Officer  
Colville National Forest

**Tom Schultz**  
AFMO  
Payette National Forest

**James Sullivan**  
Fire Management Officer  
Fairbanks Admin Center

**Tim Theisen**  
Fuels Specialist  
Nez Perce National Forest

**Matthew Watson**  
Forestry Technician  
Klamath National Forest

**Chris Otto**  
Fire Management Specialist  
High Desert District

**John Parrish**  
Fuels Technician  
Kootenai National Forest

**Frank Rice**  
Engine Captain  
Grand Mesa/Uncompahgre/Gunnison NFs

**Kris Schroeder**  
SFEO  
Klamath National Forest

**Patrick Seekins**  
AFMO  
Pike and San Isabel NF

**Sarah Synowiec**  
Forestry Technician  
Black Hills National Forest

**Raymond Torres**  
Fuels BC 32  
Plumas National Forest

**Leonard Weddle**  
Fire Management Officer  
Denali National Park & Preserve