



**National Advanced Fire & Resource Institute**  
Managed By The U.S. Forest Service

3265 East Universal Way, Tucson, Arizona 85756  
Phone 520-799-8787 • Fax 520-799-8785 • [www.nafri.gov](http://www.nafri.gov)

**File Code:** 5100

**Date:** December 10, 2008

**Subject:** M-580 Fire in Ecosystem Management  
April 20 – 24, 2009

**To:** M-580 Course Participant

Congratulations on your selection to attend the M-580 Fire in Ecosystem Management course to be held at the National Advanced Fire and Resource Institute (NAFRI). The course dates are April 20 - 24, 2009. Please note the course starts Monday morning at 0800. Enclosed you will find; the course schedule, faculty, steering committee, and participant rosters, and details on logistics of the course.

**Course Information:**

M-580 begins Monday, April 20 at 0800 in the Sonoran Auditorium. The course ends at 1600 on Friday, April 24. Do not make flight reservation that will interfere with the course times.

M-580 is a national level training course. As such, you can expect long days. You will be expected to attend the entire course.

This course generates various handouts but not a notebook per se. At the end of the course each participant will receive a CD with all lesson plans, most PowerPoint's, and various handouts. There are many instructors for this course and the steering committee feels you can give each instructor your attention without the distraction of looking at documents during the presentations.

**Cancellation Policy:**

If for any reason you are unable to attend the course, please let us know. Do not replace yourself.

**Logistics:**

**Course Facility**

Our facility is close to the Tucson International Airport. You can find a map of the area at [www.nafri.gov](http://www.nafri.gov).

**Place:** NAFRI

**Main Phone:** (520) 799-8787

**Address:** 3265 E. Universal Way, Tucson, AZ 85756

**Fax:** (520) 799-8785

**Travel Arrangements**

The course begins on Monday morning, April 20th at 0800. Travel should be scheduled for Sunday, April 19th, 2009. The course ends Friday, April 24th at 1600. When making your return flight arrangements, allow at least 15 minutes from NAFRI to the Tucson International Airport by car.

**Lodging**

For a listing of hotels near NAFRI, go to the main NAFRI website (<http://www.nafri.gov>). Please mention you are with NAFRI.

The hotels and inns located in this area provide a wide variety of amenities suitable for all visitors. The hotels and NAFRI are within one mile of the Tucson airport. Most of the hotels also provide free continental breakfast. Other amenities may be provided based on the individual hotel properties. Be sure to confirm with the hotel when setting up your reservation.

**Transportation**

If you are not renting a car, NAFRI will be providing a van shuttle service to and from the hotels as needed for the course, once in the morning and again after class in the evening. Please call the NAFRI main number (520-799-8787) to make arrangements or go online <http://www.nafri.gov> to sign up for a ride.

**Restaurants**

There are plenty of lunch options within walking distance.

We are looking forward to presenting M-580 here at NAFRI. Please contact Celeste Gordon, M-580 Course Coordinator, at 520-799-8777 or by email [cgordon@fs.fed.us](mailto:cgordon@fs.fed.us) with any questions or concerns about the M-580 Course.

  
MERRIE M. JOHNSON  
Director

## **M-580 FIRE IN ECOSYSTEM MANAGEMENT**

**April 20 – 24, 2009**

**Tucson, Arizona**

### **COURSE OBJECTIVES**

- Convey the significance and role of fire in ecosystem management.
- Demonstrate the complexity of integrating fire and vegetation management with social, political, legal, economic and environmental factors.
- Provide participants with strategies, concepts, reference resources, and models to address fire and ecosystem management issues including collaboration with the public and other agencies.

### **COURSE DESCRIPTION**

Through lectures, case studies, and interaction between participants and faculty, the course:

- Explores the role of fire and fire management in ecosystem management.
- Examines social, political, legal, economic, and environment factors critical to fire and fuels treatment for ecosystem management.
- Presents real-world examples of fire management applications in ecosystem management.
- Provides the participants with the opportunity to obtain tools, ideas, concepts, techniques and methodologies to address fire and ecosystem management issues at their home unit.

Case studies from North America are presented to expose participants to a variety of ongoing programs attempting to integrate the historical, ecological and socioeconomic aspect of fire management into ecosystem management.

Nationally recognized subject matter experts and practitioners serve as instructors in this course.

The course does not provide a “cookbook” for ecosystem management; rather this course provides concepts, and ecological - social considerations to assist the student with developing specific fire management programs. Local fire effects information and monitoring details are provided in other courses.

**NATIONAL ADVANCED FIRE AND RESOURCE INSTITUTE**  
**April 20 – 24, 2009**  
**Tucson, Arizona**

**FIRE IN ECOSYSTEM MANAGEMENT**

Opening Comments ..... Bob Mutch  
Landscape Ecology ..... Wendel Hann  
Human/Social Dimensions of Fire Risk Management ..... Terry Daniel  
Fire Leadership & Ecosystem Management..... Corbin Newman  
Legal Considerations ..... Mike Johns  
Fire Cycle Determination ..... Bill Patterson  
Fire Regimes: Applying Ecological ..... Bob Mutch/Kathy Davis  
Ecosystem Dynamics ..... Andi Thode  
Soil & Water ..... Leonard DeBano  
Fire in Aquatic Ecosystems ..... Robert Gresswell  
Soil Case Study ..... Deborah Martin  
Fire & Climate ..... Tom Swetnam  
Invasive Species ..... Matt Brooks  
Cheat Grass Case Study ..... Mike Pellant  
Fire in Grasslands, Shrublands, & Riparian Zones:  
    Homogenization & Fragmentation ..... Dave Engle  
Prairie Restoration for Biological Diversity & Wildlife ..... Terry Bidwell  
Historical Role of Fire ..... Steve Pyne  
Mescalero Case Study ..... Jacque Buchanan/Bill Hornsby  
Fire Marketing ..... Don Smurthwaite  
Cultural Resources ..... Gary Knudsen  
Smoke/Air Quality Management ..... Dennis Haddow  
A M R ..... Dick Bahr  
Integrating Ecological & Human Dimensions in  
    Banff National Park & Alberta's East Slopes ..... Cliff White  
Closeout ..... Dennis Dupuis

# NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

## M-580 FIRE IN ECOSYSTEM MANAGEMENT

**Monday  
April 20, 2009**

**Day One Leader – Dennis Dupuis**

<b>0750 – 0800</b>	<b>- NAFRI Welcome Orientation</b>	<b>NAFRI</b>
<b>0800 – 0850</b>	<b>- Course/Participant Introduction</b>	<b>Dennis Dupuis/Roberta D’Amico</b>
<b>0850 – 0900</b>	<b>- BREAK</b>	
<b>0900-0950</b>	<b>- Opening Comments</b>	<b>Bob Mutch</b>
<b>0950 – 1000</b>	<b>- BREAK</b>	
<b>1000 – 1130</b>	<b>- Landscape Ecology</b>	<b>Wendel Hann</b>
<b>1130 – 1230</b>	<b>- BROWN BAG LUNCH</b>	<b>Wendel Hann</b>
<b>1230 – 1400</b>	<b>- Human/Social Dimensions of Fire Risk Management</b>	<b>Terry Daniel</b>
<b>1400 – 1410</b>	<b>- BREAK</b>	
<b>1410 – 1500</b>	<b>- Fire Leadership &amp; Ecosystem Management</b>	<b>Corbin Newman</b>
<b>1500 – 1510</b>	<b>- BREAK</b>	
<b>1510 – 1700</b>	<b>- Legal Considerations</b>	<b>Mike Johns</b>
<b>1700 – 1710</b>	<b>- Wrap Up</b>	

# NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

## M-580 FIRE IN ECOSYSTEM MANAGEMENT

**Tuesday  
April 21, 2009**

**Day Two Leader – Sue Wilder**

**0750 – 0800 - Day Intro**

**0800 – 0945 - Fire Cycle Determination**

**Bill Patterson**

**0945 – 1000 - BREAK**

**1000 – 1200 - Fire Regimes: Applying Ecological**

**Bob Mutch/Kathy Davis**

**1200 – 1300 - BROWN BAG LUNCH**

**Terry Daniel/Kathy Davis/Bob Mutch/  
Bill Patterson/Andi Thode**

**1300 – 1430 - Ecosystem Dynamics**

**Andi Thode**

**1430 – 1440 - BREAK**

**1440 – 1600 - Soil & Water**

**Leonard Debano**

**1600 – 1610 - BREAK**

**1610 – 1700 - Fire in Aquatic Ecosystems**

**Robert Gresswell**

# NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

## M-580 FIRE IN ECOSYSTEM MANAGEMENT

**Wednesday  
April 22, 2009**

**Day Three Leader – Jamie Connell**

**0750 – 0800 - Day Intro**

**0800 – 0850 - Soil Case Study**

**Deborah Martin**

**0850 – 0900 - BREAK**

**0900 – 0950 - Fire & Climate**

**Tom Swetnam**

**0950 – 1000 - BREAK**

**1000 – 1100 - Invasive Species**

**Matt Brooks**

**1100 – 1110 - BREAK**

**1110 – 1200 - Cheat Grass Case Study**

**Mike Pellant**

**1200 – 1300 - BROWN BAG LUNCH**

**Leonard Debano/Deborah Martin  
Tom Swetnam/Matt Brooks**

**1300 – 1515 - Fire in Grasslands, Shrublands, and Riparian Zones:  
Homogenization and Fragmentation**

**Dave Engle**

**Prairie Restoration for Biological Diversity and Wildlife**

**Terry Bidwell**

**1515 – 1530 - BREAK**

**1530 – 1720 - Historical Role of Fire**

**Steve Pyne**

**1720 – 1730 - Wrap Up**

# NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

## M-580 FIRE IN ECOSYSTEM MANAGEMENT

Thursday  
April 23, 2009

Day Four Leader – Roberta D’Amico

0750 – 0800 - Day Intro

0800 – 1000 - Mescalero Case Study

Jacque Buchanan/Bill Hornsby

1000 – 1010 - BREAK

1010 – 1200 - Media and Public Perspective/Marketing Fire

Don Smurthwaite

1200 – 1300 - BROWN BAG LUNCH

Dennis Haddow/Don Smurthwaite

1300 – 1430 - Cultural Resources

Gary Knudsen

1430 – 1440 - BREAK

1440 – 1630 - Smoke Management/Air Quality Management

Dennis Haddow

1630 – 1640 - Wrap Up



# NATIONAL ADVANCED FIRE & RESOURCE INSTITUTE

## M-580 FIRE IN ECOSYSTEM MANAGEMENT

Friday  
April 24, 2009

Day Five Leaders – Marsha Kearney, Anne Zimmermann

0750 – 0800 - Day Intro

0800 – 1000 - Update – Fire Policy Modification

Dick Bahr

1000 – 1010 - BREAK

1010 – 1200 - Integrating Ecological and Human Dimensions in  
Banff National Park and Alberta's East Slopes

Cliff White

1200 – 1210 - Wrap Up and Closeout

Roberta D'Amico

For Location and Logistic information please follow this link  
<http://www.nafri.gov/pages/locationandlogistics.htm>