

PRE-CONVENTION TRAIL BOSS

# MERGING TRAILS

CULTURE SCIENCE *INNOVATION*

## 62<sup>ND</sup> ANNUAL MEETING SOCIETY FOR RANGE MANAGEMENT

Albuquerque, New Mexico  
February 8-13, 2009

**SOCIETY FOR RANGE MANAGEMENT**  
SUPPLEMENT TO *RANGELANDS*



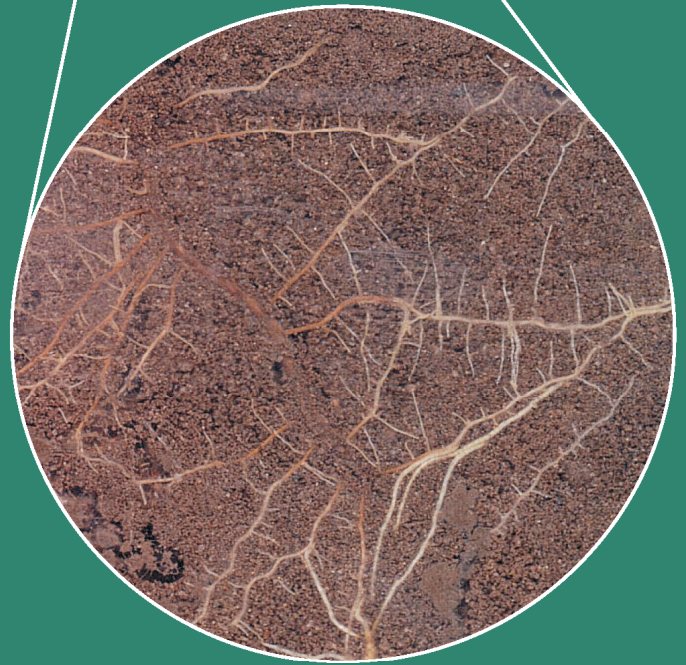
# CI-600 ROOT SCANNER FOR ROOT MONITORING



The CI-600 Root Scanner is designed to scan living roots in the soil. It is operated by a laptop computer. To obtain an image, insert the scan head into a pre-installed Plexiglass tube. The scan head will automatically rotate a full circle, creating a 21.59 × 19.56 cm high-resolution image of the soil and roots. Users can move the scan head to different depths, and move from tube to tube.

A flat scanner model is also now available.

- Up to 188 million pixels super high-resolution image.
- Linear scanning with no distortion.
- Very portable and quick operation.



Zoom in to any area of a scanned image.

Photos courtesy of Dr. Dylan Fischer at Evergreen State College. For more images please visit his web site: <http://academic.evergreen.edu/f/fischerd/research/minirhizotron.htm>.

[www.cid-inc.com](http://www.cid-inc.com)



4901 NW Camas Meadows Dr. • Camas, WA 98607 • USA  
Phone: (360) 833-8835 • USA and Canada: (800) 767-0119  
Fax: (360) 833-1914 • E-mail: [sales@cid-inc.com](mailto:sales@cid-inc.com)



# WELCOME

to the SRM Annual Meeting & Trade Show!

## TABLE OF CONTENTS

Welcome .....	4
Albuquerque Map .....	7
Program-At-A-Glance .....	8
Traveling to Albuquerque .....	9
Hotel Information .....	10
Meeting Facilities .....	11
Registration Information .....	12
Trade Show Information .....	15
Sponsorship Information .....	15
Board/Council/Committee Meetings .....	16
Special Events At-A-Glance .....	17
Technical/Social Tours .....	18
Student Activities .....	21
Student Activities At-A-Glance .....	23
Career Development and Job Fair .....	24
Plenary Session .....	27
Technical Program-At-A-Glance .....	28
Presentation Instructions .....	29
Technical Program .....	30
Dance Entertainer .....	44
Banquet Entertainer .....	45
2008 Planning Committee .....	46

Cover Photo: Albuquerque Convention and Visitors Bureau and MarbleStreetStudio.com

Please note that the information in this PreConvention Trail Boss is correct at time of printing, but may change.  
Check the SRM Annual Meeting Website for changes <http://www.srmmeetings.org/>.



# Welcome to the 2009 Society for Range Management Annual Meeting

We and all of the New Mexico Section members are honored to welcome the Society to Albuquerque for the 2009 Annual Meeting. Many of our members have already put in over 20 months of hard, but enthusiastic effort to make this an outstanding meeting. Our theme is *Merging Trails – Culture, Science and Innovation*. We want to share with you the cultural diversity of New Mexico, the scientific knowledge used in managing our rangelands and the innovation that has been demonstrated in resolving issues.

The 2009 Society for Range Management Annual Meeting in Albuquerque will:

- Provide opportunities for professional development and continuing education on the stewardship of rangeland resources.
- Provide participants with opportunities to experience cultures, foods, rangeland products, and other cultural elements of New Mexico rangelands.
- Provide participants with opportunities to discuss rangeland science. Presentations and tours will provide examples of how science is used to manage New Mexico rangelands.

The New Mexico Section is committed to your enjoyment of the 2009 SRM Annual Meeting. We want you to contact us with any particular needs that you might have. Also, visit our meeting web site at <http://www.srmmeetings.org/> There you will find information about hotels, schedules, tours and all other aspects about the meeting.

We encourage you to invite others who are interested in rangelands to the meeting. If you wish, let us know of those individuals and we will provide them with a special invitation.

We look forward to seeing you all in February to share the New Mexican rangeland experience.

E. T. 'Tom' Bartlett  
2009 Meeting Committee Co-Chair  
Las Cruces, New Mexico  
(575) 521-3166  
[et101@zianet.com](mailto:et101@zianet.com)

Bob Alexander  
2009 Meeting Committee Co-Chair  
Santa Fe, New Mexico  
(505)470-5637  
[bob1alexander@msn.com](mailto:bob1alexander@msn.com)







## State of New Mexico Office of the Governor

Bill Richardson  
Governor

### *A Welcome Message from Governor Bill Richardson*

*As Governor of the State of New Mexico, I want to welcome you to Albuquerque for the 2009 Society for Range Management Annual Meeting. The meeting's theme of "Merging Trails: Culture, Science and Innovation" is appropriate for the "Land of Enchantment," where cutting-edge science at our universities and national labs blends with hundreds of years of unique cultural traditions. I hope you will enjoy your stay in Albuquerque so much that you will visit again in the future to see all that New Mexico has to offer*

*New Mexico enjoys a rich heritage, tri-cultural people, exciting outdoor activities, great food, world-renowned art, wonderful festivals and a gorgeous climate. Our state is home to twenty-two Native American tribes and pueblos, nearly 500 years of Spanish tradition and a ranching tradition dating back to the railroad's arrival in the late 1800s. Agriculture remains an important part of our economy - from fields of green chile to herds of cattle. We are also building our renewable energy and high-tech sectors, where Albuquerque is a center for this new development.*

*Albuquerque embodies the true Southwest. The city enjoys 310 days a year of sunshine and blue skies against the backdrop of the Sandia Mountains. It is a vibrant and colorful metropolitan area. We are honored that you have chosen to meet here, and hope that you will explore all that the city has to offer.*

*Best wishes for a productive and enriching stay in Albuquerque and the "Land of Enchantment." We hope that you visit us again soon.*

*With warmest regards,*

A handwritten signature in black ink that reads "Bill Richardson".

Bill Richardson  
Governor of New Mexico



Dear SRM Members and Friends,

I would like to invite you to the land of enchantment to attend the 62<sup>nd</sup> SRM Annual Meeting in Albuquerque, New Mexico. Albuquerque is a city with a strong multicultural heritage, making it the perfect site to host this meeting. This year's theme is "Merging Trails: Culture, Science and Innovation". We could not ask for a more appropriate theme to meet our mission to promote the professional development and continuing education for the stewardship and of our rangelands. We continually strive to use science-based management to maintain productive, sustainable rangeland ecosystems. To do this, we must be open to incorporating new information leading to the innovations we need for our future. With this in mind, the planning committee of SRM and the New Mexico Section has put together a wonderful program which will help us see that culture, science and innovation are merged and that, together, they help sustain our rangelands.

I personally thank the organizing committee and especially co-chairmen Bob Alexander and Tom Bartlett for their dedication and leadership in ensuring that this meeting provides us the opportunity to continually learn better ways to improve our rangelands.

Join us as we learn more about rangelands and how we can collaborate in developing innovations and building the strong discernment needed to do a better job for our rangelands.

Allen Rasmussen, President

## CITY OF ALBUQUERQUE



Dear Friends:

On behalf of the City Of Albuquerque, it is with great pleasure that I welcome you to the Society for Range Management 2009 Annual Meeting.

On the 8<sup>th</sup> through the 13<sup>th</sup> days of February, Albuquerque is delighted to host members of the Society Range Management. While you are in the Duke City, I invite you to visit some of our many wonderful amenities here in Albuquerque, like the Balloon Museum, BioPark and Albuquerque Museum.

While conducting the great work of the conference through series of symposia, workshops, posters and special sessions, I hope your stay is memorable and that you come back to visit us very soon. Once again, best wishes for a very successful conference.

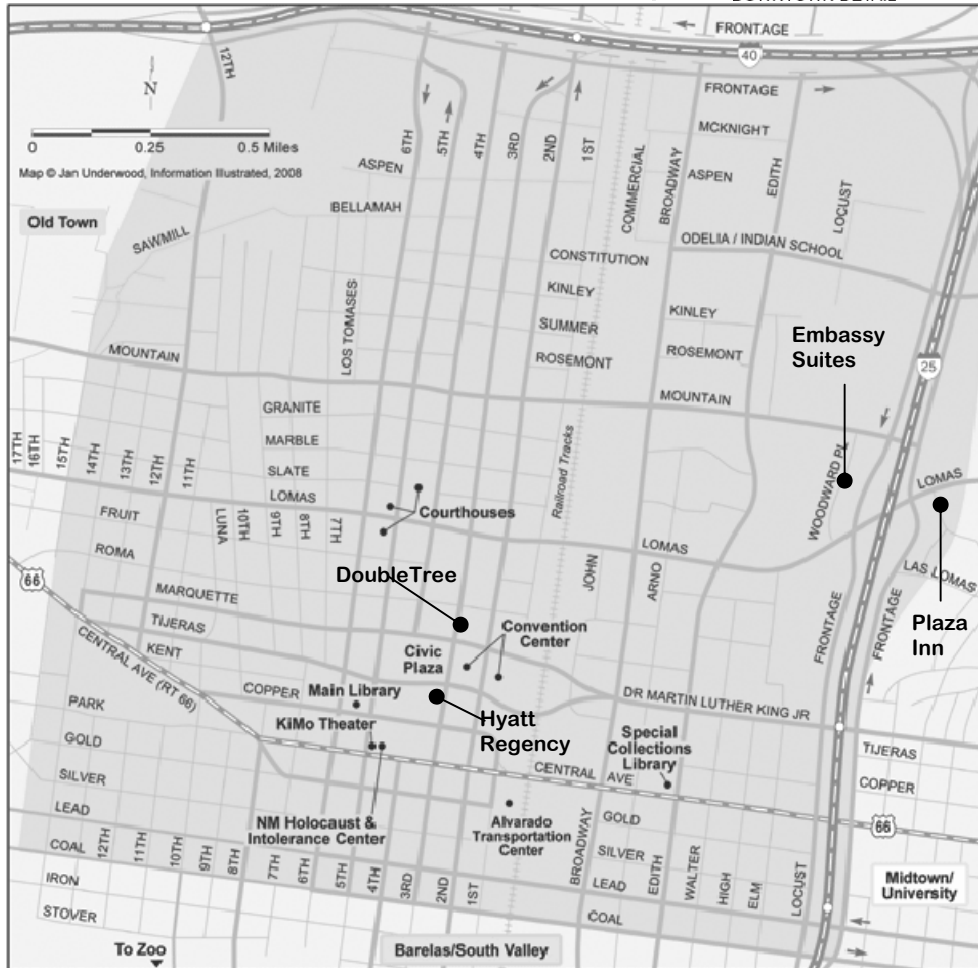
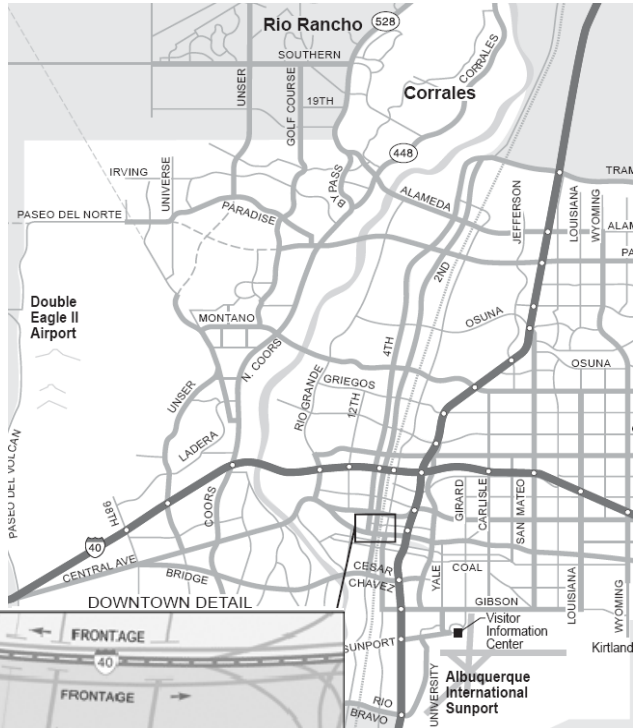
Sincerely,

A handwritten signature in black ink, appearing to read 'Martin J. Chavez', written over a white background.

Martin J. Chávez  
Mayor of Albuquerque



# Albuquerque



Interactive maps at [www.itsatrip.org](http://www.itsatrip.org)

# PROGRAM-AT-A-GLANCE

Saturday 2/7	Sunday 2/8	Monday 2/9	Tuesday 2/10	Wednesday 2/11	Thursday 2/12
<p><b>6:30am-7:30am</b> AM Planning Committee</p> <p><b>8am-5pm</b> SRM Board of Directors</p> <p><b>8am-7pm</b> Tech Tour – Trinity Site</p> <p><b>3pm-4:30pm</b> AM Planning Committee</p>	<p><b>6am-7pm</b> Speaker Prep Room</p> <p><b>6:30am-8am</b> AM Planning Committee</p> <p><b>7am-5:30pm</b> Registration</p> <p><b>8am-5pm</b> Committee Meetings</p> <p><b>10am-6pm</b> Advisory Council</p> <p><b>8am-6pm</b> Career Opportunities Employment Room</p> <p><b>10am-6pm</b> Agency On-the-Spot Hiring</p> <p><b>8am-10am</b> Job Fair Set Up</p> <p><b>10am-6pm</b> Job Fair</p> <p><b>11am-5pm</b> Social Tour - Acoma</p> <p><b>6am-11pm</b> Plant ID Study Room HSYF Home Room</p>	<p><b>6:30am -7 am</b> AM Planning Committee</p> <p><b>7am-5:30pm</b> Registration</p> <p><b>7am-5pm</b> HSYF Tour</p> <p><b>7am-8:30am</b> SRM Memorial Breakfast</p> <p><b>6am-7pm</b> Speaker Prep Room</p> <p><b>6am-11pm</b> HSYF Home Room</p> <p>Plant ID Study Room</p> <p><b>8am-5pm</b> Career Opportunities Employment Room</p> <p><b>8am-10am</b> URME Exam</p> <p><b>8am-11am</b> Trade Show Set Up</p> <p><b>8am-8pm</b> Agency On-the-Spot Hiring</p> <p><b>8:45am-12pm</b> Plenary Session</p> <p><b>11am-12pm</b> Poster Session A Set Up</p>	<p><b>6am-11pm</b> Plant ID Study</p> <p>HSYF Home Room</p> <p><b>6am-7pm</b> Speaker Prep Room</p> <p><b>6:30am-8 am</b> AM Planning Committee</p> <p><b>7am-8am</b> New Member Breakfast</p> <p><b>7am-12pm</b> Board of Directors</p> <p><b>7am-5pm</b> HSYF Papers</p> <p><b>7am-5:30pm</b> Registration</p> <p><b>8am-10am</b> Plant ID Contest</p> <p><b>8am-12pm</b> CPRM Exam</p> <p><b>8am-5pm</b> Social Tour -Santa Fe</p> <p>Symposia</p> <p>Tech Sessions</p> <p>Workshops</p> <p>Trade Show</p> <p>Career Opp. Employment Rm</p> <p><b>8am-8pm</b> Agency-On-the-Spot-Hiring</p> <p><b>10am-1pm</b> YPC Business Meeting/Lunch</p> <p><b>11am-12pm</b> Poster Session B Set Up</p> <p><b>11am-3pm</b> Plant ID Viewing</p>	<p><b>6am-11pm</b> HSYF Home Room</p> <p><b>6am-7pm</b> Speaker Prep Room</p> <p><b>6:30am-8am</b> AM Planning Committee</p> <p><b>7am-12pm</b> Registration</p> <p><b>7am-8:30am</b> Professional Issues Breakfast</p> <p><b>8am-11pm</b> HSYF Business Meeting &amp; Workshop</p> <p>Poster Session B</p> <p><b>8am-12pm</b> Symposia</p> <p>Tech Sessions</p> <p>Workshops</p> <p>Career Opp. Employment Room</p> <p>Trade Show</p> <p>Silent Auction</p> <p>Agency-On-the Spot-Hiring</p> <p>UG Technical Papers</p>	<p><b>6am-5pm</b> Speaker Prep Room</p> <p><b>6:30am-7:30am</b> AM Planning Committee</p> <p><b>7am-12pm</b> Registration</p> <p><b>8am-12pm</b> Career Opp. Employment Room</p> <p><b>8am-7pm</b> Technical Sessions</p> <p>Symposia</p> <p>Workshops</p> <p>Agency Workshops</p>
<p><b>5pm-7pm</b> Registration</p>	<p><b>12pm-6pm</b> Tech Tour – PMC</p> <p>Silent Auction Set Up</p> <p>Trade Show Set Up</p> <p>Student Display Set Up</p> <p><b>1pm-5pm</b> RTEC Symposium</p> <p>Career Development Workshops</p> <p><b>5pm-6pm</b> Student Contest</p> <p>Registration</p> <p><b>5pm-8pm</b> Student Conclave Bus. Meeting</p>	<p><b>12pm-6pm</b> Poster Session A</p> <p>Trade Show</p> <p>Silent Auction</p> <p><b>12pm-2pm</b> Past Pres. Founding &amp; Charter Members Lunch</p> <p><b>1pm-5pm</b> Symposia</p> <p>Technical Sessions</p> <p>Workshops</p> <p>UG Speaking Contest</p> <p><b>2pm-4pm</b> Pres. Spouse Social</p> <p><b>4pm-6pm</b> Rangeland Cup</p> <p>Poster Session A-Authors Present</p>	<p><b>12pm-6pm</b> Poster Session B</p> <p><b>12pm-2pm</b> Student Conclave Luncheon</p> <p><b>2:30pm-6pm</b> Student Conclave Tour</p> <p><b>4pm-6pm</b> Poster Session B-Authors Present</p>	<p><b>12pm-3pm</b> Trade Show</p> <p>Removal</p> <p>Silent Auction</p> <p>Removal</p> <p><b>12pm-2:30pm</b> SRM Lunch &amp; Business Meeting</p> <p><b>2:45-5pm</b> SRM Awards Meeting</p> <p><b>1pm-5pm</b> Social Tour-Wine Tour</p>	<p><b>3pm-5pm</b> Planning Comm. Summary</p>
<p><b>7pm-8:30pm</b> SRM BOD and Committee Chairs</p>	<p><b>7pm-10pm</b> Agency Socials</p> <p><b>7pm-10pm</b> HSYF Orientation/Social</p>	<p><b>6pm-8pm</b> Trade Show Mixer</p> <p><b>6pm-9pm</b> HSYF Professional Interaction Dinner</p> <p><b>5pm-7pm</b> Tapping the Top</p>	<p><b>6pm-8pm</b> Section Mixers</p> <p>University Mixers</p> <p><b>7:30pm-9:30pm</b> Wild Women of Range Mixer</p> <p><b>8pm-12am</b> Dance</p>	<p><b>6pm-7pm</b> President’s Reception</p> <p><b>7pm</b> Banquet, Awards, Entertainment</p>	<p><b>7pm-9pm</b> Planning Committee Social</p>
<p><b>Friday, February 13-7:30am-7pm Board of Directors, 8am-5pm Agency Workshops, 8am-7pm Tech Tour-Trinity Site</b></p>					



# Traveling to Albuquerque

The true Southwest awaits you in Albuquerque, New Mexico. Come immerse yourself in our rich culture and heritage, rooted in centuries of history. Soak in our blue skies and sun that shines 310 days a year—perfect for outdoor activities. Breathe in the high desert air scented with sage and piñon, and you'll understand why Albuquerque is a destination like no other.

Recognized as one of the most culturally diverse cities in the country, Albuquerque's ethnic tapestry is reflected in its architecture, artwork, cultural centers and cuisine. Countless customs and traditions passed down over generations are a vibrant part of daily life in the city, and make Albuquerque an epicenter of authentic Southwestern culture. Albuquerque is home to more than the Native American, Hispanic, Latino and Anglo cultures for which New Mexico is well known. Our multicultural city includes strong African American, Asian, Middle Eastern and other ethnic communities, creating a unique and modern Southwestern blend.

Find out more about visiting Albuquerque and central New Mexico:

Albuquerque CVB                      [www.itsatrip.org](http://www.itsatrip.org)  
Santa Fe CVB                            [www.santafe.org](http://www.santafe.org)

## Albuquerque International Sunport

The Albuquerque International Sunport (Sunport) is a world-renowned, full service facility that welcomes more than six million travelers per year. As the state's largest commercial airport, the Sunport serves as the gateway to the diverse cultures, rich history and breathtaking landscapes that are New Mexico. We are committed to providing a clean, safe and passenger friendly facility that is capable of meeting the current and future travel needs of visitors and New Mexicans alike.

Just 15 minutes from downtown Albuquerque, the Sunport is served by nine major commercial carriers: American, Continental, Delta, ExpressJet, Frontier, Northwest, Southwest, United and US Airways. It also receives regular in-state service from commuters, Great Lakes Airlines and New Mexico Airlines. Freight service is provided by DHL, Federal Express and UPS.

Southwest Airlines, the Sunport's largest carrier, handled 52.1% of 6,667,390 total passengers in 2007. The passenger count at the Sunport has seen an average per year increase of over 2% over the last 15 years. The Sunport terminal, which was expanded to its present size in the late 1980s and again in 1996, encompasses 574,000 sq. ft. of space and has 23 gates in two concourses. There is parking for approximately 3,700 vehicles in the Sunport's four-level parking structure and adjacent surface lots.

## National and local rental agencies offer vehicles for rent or lease

Ground transportation from the airport and around Albuquerque and New Mexico is provided by cab companies, door to door shuttles, buses, limousines, tour shuttles/buses, rental car companies, out of town shuttles and hotel/motel courtesy vehicles.

Car rental agencies at the Sunport are Advantage, Alamo, Avis, Budget, Dollar, Enterprise, Hertz, National and Thrifty. All are located at the Sunport's Car Rental Center, approximately ½ mile from the passenger terminal building.

Facilities for persons with disabilities include elevators in the parking structure and each of the terminal's three levels, wheelchairs, Braille signage, wheelchair-accessible restrooms and drinking fountains, and telecommunications devices for the hearing impaired (TDD).

# HOTEL INFORMATION

Reduced lodging rates are provided by the convention hotels. If you use other methods, such as web based sites to secure a reservation, please notify the hotel you are with the SRM meeting. This will insure the rate and give SRM credit.

## **Hyatt Regency** – Host Hotel (located across the street from the ABQ Convention Center)

330 Tijeras NW, Albuquerque, NM 87102

Reservations: Local: 505-842-1234  
Nat.: 800-233-1234  
Fax: 505-843-2710

Rates: Single: \$119  
Double: \$144  
Triple: \$169  
Quad: \$194

<http://albuquerque.hyatt.com/groupbooking/albuqsrmg2009>

Parking: Valet Parking: \$16 per day with in/out privileges (No RV or oversize vehicle parking at hotel)  
Clearance 6'8"

Self Parking: \$12 per day with in/out privileges

Handicapped Parking: The parking garage has 3 accessible van spaces & 6 car spaces.

## **Doubletree Hotel** – Host Hotel (accessible by tunnel to ABQ Convention Center)

201 Marquette Avenue Northwest, Albuquerque, NM 87102

Reservations: Local: 505-247-3344  
Nat.: 800-584-5058  
Fax: 505-247-7025

Rates: Single: \$115  
Double: \$115  
Triple: \$125  
Quad: \$135

[www.hilton.com/en/dt/groups/personalized/ALBSMDT-SRM-20090203/index.jhtml](http://www.hilton.com/en/dt/groups/personalized/ALBSMDT-SRM-20090203/index.jhtml)

Parking: Self Parking: \$10 per day with in/out privileges (underground and outside )

## **Embassy Suites** – 1 mile (accessible to ABQ Convention Center by complimentary shuttle)

1000 Woodward Place NE, Albuquerque, NM 87102

Reservations: Local: 505-245-7100  
Nat.: 800-362-2779  
Fax: 505-247-1083

Rates: Single: \$129  
Double: \$129  
Triple: \$139  
Quad: \$149

<http://embassysuites.hilton.com/en/es/groups/personalized/ABQEMES-SRM-20090207/index.jhtml>

Parking: Free parking outdoor lot

## **Plaza Inn** – 1 mile (complimentary shuttle, located just east of I-25)

90 Medical Arts Ave, Albuquerque, NM 87102

Reservations: Local: 505-243-5693  
Nat: 800-237-1307  
Fax: 505-849-6229

Rates: Single: \$89\*  
Double: \$89  
Triple: \$89

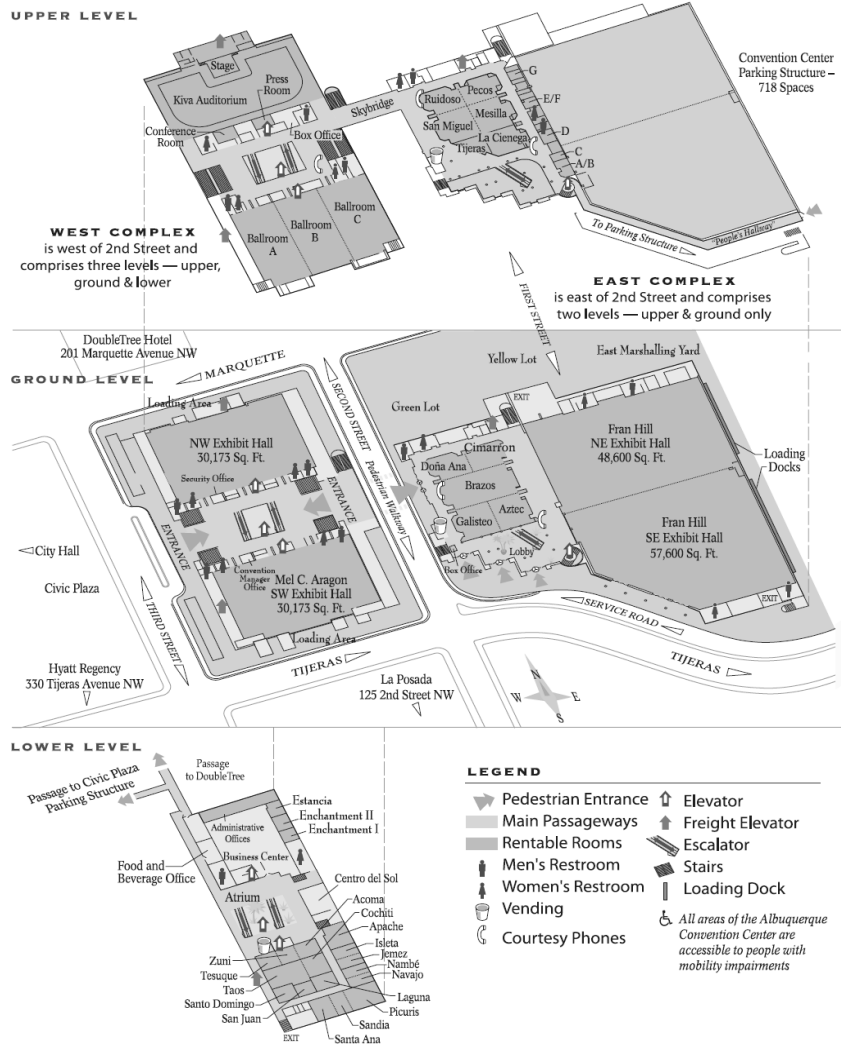
\*Same rate for 1 king, 1 queen or 2 doubles

<http://www.plazainnabq.com>

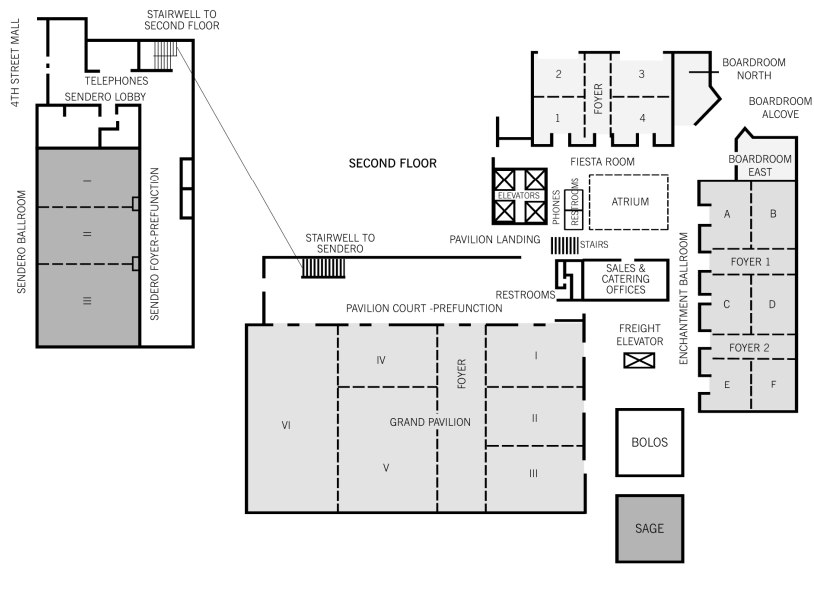
Parking: Free parking outdoor lot



# The Albuquerque Convention Center



# The Albuquerque Hyatt Regency Hotel



# REGISTRATION FORM

Mail to: SRM, 10030 West 27<sup>th</sup> Ave, Wheat Ridge, CO 80215-6601; Fax: 303-986-3892 Phone: 303-986-3309

---

---

First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_ Last Name \_\_\_\_\_

Name for Badge (if different from above) \_\_\_\_\_

Organization/University/Company \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_

Zip/Postal Code \_\_\_\_\_ Country \_\_\_\_\_

Spouse/Guest Name (only if registering) \_\_\_\_\_

Telephone (day) \_\_\_\_\_ Fax \_\_\_\_\_

Mobile \_\_\_\_\_ Email \_\_\_\_\_

Expected Date of Arrival: \_\_\_\_\_ Expected Date of Departure: \_\_\_\_\_

---

### **MEMBERSHIP CLASSIFICATION:**

SRM Member     Non-Member

---

### **SPECIAL DESIGNATIONS:**

Charter/Founding Member     Past President     High School Youth Forum     Student Conclave  
 Young Professionals Conclave     New Member (since 1/1/08)

---

### **FULL CONFERENCE REGISTRATION FEES (All Fees are in U.S. Dollars):**

<u>SRM MEMBERS</u>	<u>QTY</u>	<u>RECEIVED BY</u>		<u>ON-SITE</u>	<u>TOTAL</u>
		<u>12/5/2008</u>	<u>1/16/2008</u>		
Regular/Life	_____	\$230	\$290	\$315	\$ _____
Emeritus	_____	\$140	\$170	\$180	\$ _____
Student	_____	\$80	\$80	\$100	\$ _____
<b>NON MEMBERS</b>					
Regular	_____	\$350	\$400	\$425	\$ _____
Student	_____	\$100	\$100	\$120	\$ _____
Spouse/Guest	_____	\$80	\$80	\$100	\$ _____

---

### **DAILY REGISTRATION FEES:** Note: maximum of two (2) days. Please check day(s) attending:

Monday, 2/9     Tuesday, 2/10     Wednesday, 2/11     Thursday, 2/12

Number of days checked above X \$90.00/Daily Fee = \$ \_\_\_\_\_

**TOTAL REGISTRATION FEES: \$**



<b><u>MEALS:</u></b>	<b><u>QTY</u></b>	<b><u>COST</u></b>	<b><u>TOTAL</u></b>
<b>Charter Members /Past Presidents' Luncheon</b> (Mon., 2/9)	_____	\$25	\$ _____
<b>Professional Issues Breakfast</b> (Wed, 2/11)	_____	\$20	\$ _____
<b>Young Professionals Luncheon</b> (Tues., 2/10)	_____	\$25	\$ _____
<b>Student Conclave Luncheon</b> (Tue., 2/10)			
<input type="checkbox"/> <b>Student</b>	_____	\$18	\$ _____
<input type="checkbox"/> <b>Non-Student</b>	_____	\$25	\$ _____
<b>Memorial Breakfast</b> (Mon., 2/9)	_____	<b>Included in Registration</b> A Ticket will be issued if checked	
<b>SRM/Business Luncheon</b> (Wed., 2/11)	_____	<b>Included in Registration</b> A Ticket will be issued if checked	
<b>Banquet/Entertainment</b> (Wed., 2/11)		\$60	\$ _____
<input type="checkbox"/> <b>Beef</b>	_____	\$60	\$ _____
<input type="checkbox"/> <b>Chicken</b>	_____	\$60	\$ _____
<input type="checkbox"/> <b>Vegetarian</b>	_____	\$60	\$ _____
<b>New Member Breakfast</b> (Tue., 2/10)	_____	FREE	
<b>Spouse/Guest Event</b> (Mon., 2/9)	_____	FREE	
		<b>TOTAL MEAL FEES: \$</b>	

<b><u>TECHNICAL TOURS:</u></b>	<b><u>QTY</u></b>	<b><u>COST</u></b>	<b><u>TOTAL</u></b>
<b>Trinity Site</b> (Sat 2/7)			
<input type="checkbox"/> <b>Roast Beef</b>	_____	\$60	\$ _____
<input type="checkbox"/> <b>NM Garden</b>	_____	\$60	
<input type="checkbox"/> <b>Geronimo</b>	_____	\$60	
<input type="checkbox"/> <b>Chicken/Pesto</b>	_____	\$60	
<b>PMC</b> (Sun 2/8)	_____	\$30	\$ _____
<b>Trinity Site</b> (Sat 2/13) Please choose lunch above	_____	\$60	\$ _____
		<b>TOTAL TECHNICAL TOUR FEES: \$</b>	

<b><u>LOCAL INTEREST TOURS:</u></b>	<b><u>QTY</u></b>	<b><u>COST</u></b>	<b><u>TOTAL</u></b>
<b>Acoma</b> (Sun 2/8)	_____	\$50	\$ _____
<b>Santa Fe</b> (Tues 2/10)	_____	\$35	\$ _____
<b>Wine Tour</b> (Wed. 2/11)	_____	\$40	\$ _____
		<b>TOTAL LOCAL TOUR FEES: \$</b>	
		<b>GRAND TOTAL: \$</b>	

**\*\* PURCHASE ORDERS ARE NOT ACCEPTED \* NO REGISTRATION WILL BE PROCESSED WITHOUT FULL PAYMENT \*\***

**REFUND POLICY:** Requests received in writing prior to December 5, 2008 will be refunded, less \$50.00 cancellation fee. Requests received in writing prior to January 16, 2009 will be refunded only in the case of extreme hardship (death, serious illness or hospitalization), less \$50.00 cancellation fee.

---

**PAYMENT OPTIONS:**

**NOTE:** Due to the increase in fees associated with credit card use, you will be charged an additional \$25 for any changes made to your registration following the initial payment by credit card. These changes may include, but are not limited to, any changes in credit card type or number, and/or switching all or some charges from one card to another.

**Check/Money Order#** \_\_\_\_\_ Please make check/money order payable to "SRM Annual Meeting."  
Check must be in US funds drawn on a US bank.

**Credit Card:**  MasterCard  VISA  American Express  Discover

**Card #** \_\_\_\_\_ **Expiration Date** \_\_\_\_\_

**Name as it appears on Card** \_\_\_\_\_

**Signature** \_\_\_\_\_ **Card Holder Phone Number** \_\_\_\_\_

**FAST TRACK & TAG™**  
**ANIMAL RFID SOLUTIONS**

- › Livestock Management
- › Monitor Areas for the Presence of Livestock
- › Immediate Notification to Management
- › Generates Data Log of Animal Activity
- › Portable and Reliable Monitoring System
- › Range of the tag = 100 to 2,500 feet
- › Ultra Rugged Handheld Field PC, Archer

**FS FORT SUPPLY TECHNOLOGIES**  
EFFECTIVE ANIMAL TRACKING SOLUTIONS

1773 W 200 N | Kaysville, UT 84037  
Phone: 888-650-6446 | Fax: 801-991-9181 | [www.fort-supply.com](http://www.fort-supply.com)

# THE SRM TRADE SHOW

This year's International conference for the Society of Range Management brings along an exhibition of the Society's long standing private and public partnerships. It is with high regard that we welcome our partners and membership to the tradeshow. This year's event promises to provide an opportunity for our membership to gather and share information on the new products and services available to our profession. It will undoubtedly be a great experience with a diversity of products and services.



The Albuquerque Convention Center has outstanding display space. Credit: [www.kipmalone.com](http://www.kipmalone.com)

The Trade Show will host an internet café which will give the membership an opportunity to keep up with email and to do any business that may arise while the conference is underway. Similar to the tradeshow in the past, the silent auction will be set up and welcomes all those tight pocketed members to bid on the unique items that will be auctioned. Next to the internet café will be the New Mexico Country Store where convention participants will be able to order New Mexico food products or purchase them on site to take home with them.

Looking for a fast, good and reasonably priced alternative for breakfast and lunch while attending the SRM Annual Meeting in Albuquerque? Food concessions will have a variety of items for purchase.

If you'd like to sign up and exhibit in the trade show, please contact Santiago Misquez at 575-835-1710 ext. 115 [Santiago.Misquez@nm.usda.gov](mailto:Santiago.Misquez@nm.usda.gov) or Tom Bartlett at 575-649-2174 [et101@zianet.com](mailto:et101@zianet.com).

## Trade Show Schedule

### **Sunday, February 8, 2009**

Noon—6:00 pm Booth Set-up

### **Monday, February 9, 2009**

8:00—11:00 am Booth Set-up

Noon—6:00 pm Trade Show Opens

6:00—8:00 pm Mixer

### **Tuesday, February 10, 2009**

8:00 am—6:00 pm Exhibit Hall Open

### **Wednesday, February 11, 2009**

8:00 am—Noon Exhibit Hall Open

Noon Trade Show Closes

Noon—6:00 pm Booth Tear Down

## **Sponsorship and Advertising**

In addition to exhibiting, many organizations choose to support the event and/or their trade show participation through sponsorship or advertising. Sponsorship and advertising help SRM to enhance the overall conference experience for attendees and exhibitors alike. SRM wishes to thank those companies and organizations who have generously signed on as conference sponsors.

The 2009 conference offers a variety of sponsorship and advertising packages from which to choose. To become a sponsor or request information on advertising, please contact Bob Alexander at 505-470-5637 [bob1alexander@msn.com](mailto:bob1alexander@msn.com) or Tom Bartlett at 575-649-2174 [et101@zianet.com](mailto:et101@zianet.com).

## **SRM SILENT AUCTION**

The popular Silent Auction sponsored by the Endowment Fund Board of Governors will again be held at the SRM Annual Meeting in February in Albuquerque. Silent Auction items should be brought to the tables set up in the Trade Show area. It would be helpful if members who plan to bring sale items could send an e-mail to either Stan Tixier [j.s.tixier@ogdenvalleyinternet.com](mailto:j.s.tixier@ogdenvalleyinternet.com) or Chuck McGlothlin [crmcg@tgrsolution.net](mailto:crmcg@tgrsolution.net) ahead of time describing the item or items and approximate value. Participation by members contributing and/or purchasing Silent Auction items will help grow the Endowment Fund for the long term benefit of SRM and will be greatly appreciated.



# BOARD/COUNCIL/COMMITTEE MEETINGS

Group	Day/Date/Time	Room
2009 Annual Meeting Planning Committee	Saturday 3 pm-4:30 pm	Enchantment II
2009 Annual Meeting Planning Committee	Daily 6:30am-8 am	Enchantment II
2009 Annual Meeting Planning Committee Social	Thursday 6 pm-9 pm	TBA
2010 Annual Meeting Planning Committee	Tuesday 8 am-12 pm	Enchantment II
2011 Annual Meeting Planning Committee	Tuesday 1 pm-5 pm	Enchantment II
Accreditation Panel	Sunday 1 pm-5 pm	Tesuque
Advisory Council	Sunday 10 am- 6 pm	Cochiti
Annual Meeting Planning Committees 2009 & 2010	Wednesday 7:30am-9am	Enchantment II
Awards Committee	Sunday 3 pm-5 pm	Enchantment II
Certified Range Management Consultant Committee	Sunday 10 am-12 pm	Aztec
Coordinated Resource Management Committee	Sunday 3 pm-5 pm	La Cienega
CPRM Committee	Sunday 1pm-5pm	San Juan
CPRM Exam	Tuesday 8 am-12 pm	Enchantment E
Endowment Board of Governors	TBA	TBA
Finance Committee	Sunday 9 am-3 pm	Pecos
GLCI Task Group	Sunday 1 pm-5 pm	Mesilla
Government Policy and Programs Committee	Sunday 8 am-5 pm	Laguna
History, Archives & Library Committee	Sunday 3 pm-5 pm	Santa Domingo
Information and Education Committee	Sunday 12 pm-4 pm	Jemez
International Affairs Committee	Sunday 1 pm-5 pm	Sandia
Leadership Development Committee	Sunday 1 pm-4 pm	Taos
Membership Task Force	Saturday 5 pm-7 pm	Jemez
Nebraska Section SRM	Tuesday 8 am-10 am	Isleta
New Members Breakfast	Tuesday 7 am-8 am	Pavilion I-III
Nominations Committee	Sunday 8am-5 pm	Navajo
Northern Great Plains Section SRM	Tuesday 4 pm-6 pm	Zuni
Public Affairs Committee	Sunday 1 pm-5 pm	Picuris
Range Science Education Council	Sunday 9am-12 pm	Picuris
Rangeland Assessment and Monitoring Committee	Sunday 8 am-5 pm	Santa Ana
Rangeland Invasive Species Committee	Sunday 1pm-3 pm	San Miguel
Rangelands Editorial Board	Sunday 1 pm-5 pm	Zuni
Rangelands Steering Committee	Sunday 8 am-12 pm	Zuni
REM Editorial Board	Sunday 1 pm-3 pm	Isleta
REM Steering Committee	Sunday 3 pm-5 pm	Isleta
Section Membership Chairs	Sunday 8 am-11 am	Enchantment II
SRM Board of Directors	Saturday 8am-5pm	Acoma
SRM Board of Directors	Tuesday 1 pm-5 pm	Acoma
SRM Board of Directors	Friday 7:30 am-5 pm	Acoma
SRM BOD – Committee/Advisory Council Reports	Tuesday 8 am-10 am	Acoma
SRM BOD w/ Committee Chairs	Saturday 7 pm-9 pm	Cochiti
Student Activities Committee	Sunday 9 am-12 pm	San Juan
Student Activities Committee	Thursday 8am-10 am	TBA
Watershed/Riparian Committee	Sunday 8 am-12 pm	Isleta
Wildlife Habitat Committee	Sunday 8 am -12 pm	Nambe
Young Professionals Conclave Business Meeting	Tuesday 10 am-11:30am	Sage

# SPECIAL EVENTS AT-A-GLANCE

<b>EVENT/ACTIVITY</b>	<b>TIME</b>	<b>LOCATION/ROOM</b> (Hyatt Hotel)
<b><u>Saturday, February 7th</u></b>		
Western Region Grazing Lands Specialists Consortium	8:00 AM – 5:00 PM	Fiesta 3 & 4
<b><u>Sunday, February 8th</u></b>		
Western Region Grazing Lands Specialists Consortium	8:00 AM – 5:00 PM	Fiesta 3 & 4
USDA – ARS Agency Social	7:00 – 10:00 PM	Pavilion III
USDA – USFS Awards and Family Meeting	7:00 – 10:00 PM	Pavilion IV, V, VI
USDA – NRCS Family Meeting	7:00 – 10:00 PM	Pavilion I, II
USDI – BLM Family Meeting/Reception	7:00 – 10:00 PM	Enchantment C,D,E,F
Extension Family Meeting	7:00 – 10:00 PM	TBA
<b><u>Monday, February 9th</u></b>		
Trade Show and Mixer	6:00 – 8:00 PM	Aragon
<b><u>Tuesday, February 10th</u></b>		
Texas A&M University Alumni Social	6:00 – 8:00 PM	Sendero II
Univ. of AZ Alumni and Friends Social	6:00 - 8:00 PM	Enchantment A, B
Utah State University Social	6:00 - 8:00 PM	Pavilion I, II
Oregon State Univ. Alumni Social	6:00 – 8:00 PM	Pavilion V
Univ. of Idaho/Idaho SRM Social	6:00 – 8:00 PM	Pavilion III
Montana State Univ. Social	6:00 – 8:00 PM	Enchantment C&D
Univ. of Wyoming Social	6:00 – 8:00 PM	Pavilion VI
Texas Tech. Alumni & Friends Breakfast	6:00 – 8:00 AM	Fiesta 3&4
Colorado State Univ. Social	6:00 – 8:00 PM	Sendero 1
Ft. Hays Kansas State Univ. Social	6:00 – 8:00 PM	Off –Site
Wild Women of Range	7:30 – 9:30 PM	E Lobby 2 <sup>nd</sup> Floor
Dance	8:00 – 12:00 PM	Ballroom C

# TOURS

## Technical Field Tours

### Trinity Site/El Camino Real International Heritage Center/Bosque del Apache Tour

Tour 1 - Saturday, February 7, 2009

Tour 2 - Friday, February 13, 2009

Depart-8:00AM, Return - 7:00 PM, Lunch Provided  
Fee - \$60.00

#### Lunch Menu (your choice)/ Chips and Drink

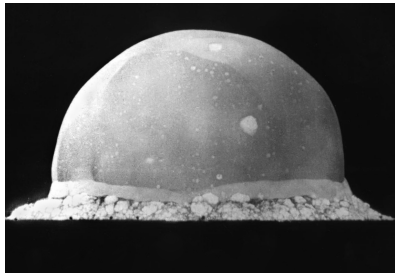
Roast Beef-Premium oven roasted beef, roma tomatoes, red onions, mayonnaise, & choice of cheese on ciabatta roll

New Mexico Garden- Roma tomatoes, red onions, cucumbers, green chile, sprouts, spinach, cheddar, Swiss, mozzarella, and guacamole on green chile-cheddar cheese bread.

Geronimo-Capicola ham, Genoa salami, roma tomatoes, red onions, cheddar, Italian dressing, lettuce on ciabatta roll.

Chicken & Pesto-Roasted chicken with pesto-mayo dressing roasted red peppers, artichoke hearts, red onions & mozzarella on foccacia bread.

Take a journey through time down the old Camino Real (*spanish for The Royal Road*) to Trinity Site, where the first atomic bomb was tested at 5:29:45 a.m. Mountain War Time on July 16, 1945. The 19-kiloton explosion not only led to a quick end to the war in the Pacific but also ushered the world into the atomic age. In addition, Dave



Anderson from White Sands Missile Range will lead a discussion on the diverse flora and fauna of the Chihuahuan desert.

From Trinity Site visitors will be treated to a tour of the El Camino Real International Heritage Center. Step back in time and join us on a journey along the historic El Camino Real de Tierra Adentro, the Royal Road of the Interior Lands. This 1500-mile historic trade route that extends from Mexico City to San Juan Pueblo/Ohkay Owenge, is one of the oldest trails in the United States, and for more than a

century, one of the longest. Designated a national historic trail in 1993, it is one of New Mexico's most important cultural artifacts. The newest State Monument tells the fascinating story of more than three centuries of trade and commerce that traversed the trail, linking Spain, Mexico and the United States at a time when mules, trains, and horses were the only means of land travel.



From the El Camino Real International Heritage Center the tour will end at the Bosque del Apache National Wildlife Refuge. Bosque del Apache is Spanish for "Woods of the Apache" and is rooted in the time when the Spanish observed Apaches routinely camped in the riverside forest. Since then the name has come to mean one of the most spectacular national wildlife refuges in North America.

Here, tens of thousands of birds--including sandhill cranes, Arctic geese, and many kinds of ducks—gather in autumn and stay through the winter. The Bosque provides a critical winter refuge for Sandhill Cranes and other migratory birds, providing food, protection and shelter. In addition, the Bosque is also home to over 32,000 Snow Geese and Ross Geese, dozens of Bald and Golden Eagles and Great Blue Herons. Refuge Managers will lead a discussion on their innovative efforts in restoring native Cottonwood *Bosque* Forests by salt cedar reduction programs and other dynamic management techniques. **"Please bring your Binoculars!"**



## USDA-NRCS Los Lunas Plant Materials Center (LLPMC) Tour

Sunday, February 8, 2009

Departure - 1:00 PM, Return - 4:30 PM

Fee - \$30.00

The USDA-NRCS Los Lunas Plant Materials Center (LLPMC) is in the Middle Rio Grande Valley just 20 miles south of Albuquerque, in Los Lunas, New Mexico. It is operated in conjunction with New Mexico State University's Los Lunas Agricultural Science Center.

The shared facility includes 210 acres of irrigated land that uses water from the Rio Grande and two on-site irrigation wells. The LLPMC targets 11 Major Land Resource Areas (MLRAs) that span New Mexico, Arizona, Colorado, and Utah. These areas include the Chihuahuan Desert, the Southern Rocky Mountains, piñon-juniper woodlands, and short grass prairie.

The LLPMC is one of 27 Plant Materials Centers across the nation that makes up the USDA-NRCS Plant Materials Program. This program has provided over 600 conservation plant releases to commercial producers which include: grasses, legumes, wildflowers, trees, and shrubs. Commercially popular releases from the LLPMC include 'Vaughn' sideoats grama, 'Hachita' blue grama, 'Arriba' western wheatgrass, 'Pastura' little bluestem, and 'Bandera' Rocky Mt. penstemon. In addition, the LLPMC also develops innovative methodologies for establishing plants, particularly in the very hot and dry southwest region.

A tour of LLPMC will take participants on a tractor-driven open trolley. Participants will see and discuss ongoing cultivar development field projects, various native grass seed production fields, native cottonwoods and willow plantations, a 2-acre plant production area, and greenhouse facilities.

## Social Tours

### *ACOMA The City Coronado Dared Not Attack*

Sunday, February 8, 2009

11:30 am – 5:30 pm

Fee: \$50

Travel to Acoma Sky City, the oldest continuously inhabited community in North America with 1000 years of history built atop a sheer-walled, 367-foot sandstone bluff. The history of the Acoma people and the Pueblo dates back to as early as 1100 A.D. This city is known throughout the world as a destination for culture and art. Join us and have the chance to experience the spiritual home of the people of Acoma, a living community for tribal members. During the bus ride to Acoma, we enjoy a lunch prepared by the Indian Pueblo Cultural Center and listen to a history and preview of sights by a local guide. Once on site we will enjoy a guided tour, shopping, museum and cultural center. There will be a \$10 fee for those who want to take pictures and \$3 for entrance to the museum. Remember, this is a walking tour over rough terrain; only those able to navigate rough terrain should sign on, and - it will be



Acoma Pueblo is one of the oldest continuously inhabited cities in the country.

Photo Credit: Lynn Baker

winter, so dress warmly. Potty-breaks are allowed. For additional info, see [www.acomaskycity.org](http://www.acomaskycity.org) and pp 56-60 in the May 2008 issue of Smithsonian Magazine. Register early as seating is limited.



### ***All Aboard for the Santa Fe Plaza!***

Tuesday, February 10, 2009

8am – 3:30pm

Fee: \$35

Experience the ‘City Different’. We will leave early on the bus from Albuquerque to allow plenty of time to explore the Plaza. SRM tour guides will provide a visitor’s guide and map and explain historical sights. Of particular interest is the Palace of the Governors dating from 1610. This is the oldest public building in America, and of course we all know about the ‘Church with No Nails Staircase’. We will have a chance to do it all - shopping for authentic Native American jewelry and pottery, visiting art galleries, museums and we can always eat. This is a do-your-own-thing tour, with lunch on your own, but SRM guides will be available to direct and reassure.

This is a great way to visit one of the shopping capitals of the Southwest and view some of the oldest historical sites in the United States. When we arrive we will have the chance for a morning coffee break at the Plaza Cafe, known for their homemade treats. The natives are friendly if you pay in US\$, Euros, or plastic. Register early as seating is limited.



Downtown Shopping in Santa Fe  
Photo Credit: Doug Merriam

### ***Taste Our Local Wines***

Wednesday, February 11, 2009

1pm-5pm

Fee: \$40



Many say New Mexico is where wine-making started in the US way back in 1629. New Mexico’s high elevation and sunny climate favor wine grapes. Plan to join us and experience two of the best wineries in the West: Gruet and Casa Rodena.

Gruet is known world-wide for their champagne. During our tour we will have the opportunity to sample 6-8 wines at each winery and learn about wine-making. Now that’s a lot of sips, so before you get on the bus be sure and eat a healthy lunch. At each winery we will have time to shop for wines and gifts. Gruet will be giving us an engraved wine glass. We provide a Designated (Sober) Driver, Governor Bill Richardson insists. Register early - seating is limited.

**\$999**  
**KEDZIG**  
Kedziora Innovation Group  
**LOW COST GPS**

- Now Supporting WAAS!
- Trimble™ high sensitivity GPS
- 217 - 220 MHz and 150-170 MHz units
- 10 Km Remote download\*
- Multi-day Time schedule or interval mode



**Lowest cost GPS data-logger available.**

**Cattle** Made in USA! **Sheep**

**WWW.KEDZIG.COM**

# SRM STUDENT ACTIVITIES

The student events and activities provide a great opportunity for high school and college students to become involved with the SRM and to learn more about rangeland resources and the field of range science. The various events and activities are designed to: 1) provide a forum for students to test their knowledge of rangeland ecology, plant identification and rangeland management; 2) provide a format that encourages syntheses of information and enhancement of communication skills; 3) create an atmosphere that fosters camaraderie, friendships and lasting relationships, 4) give students the opportunity to meet SRM members; 5) allow students to interact with range professionals and explore career opportunities; 6) provide insights concerning the functioning and working of the society; and 7) provide an opportunity to learn about ecology and natural resources of the annual meeting location. We encourage SRM members to attend student events and activities. Exceptional presentations can be heard at the High School Youth Forum Oral Presentations, Undergraduate Technical Paper Presentations, the Rangeland Cup Competition, Undergraduate Public Speaking Contest, and Graduate Student Paper and Poster Presentations. Please check the Student Activities Schedule for times and locations of the various events and activities. Remember, the students represent the future of SRM.

## **High School Youth Forum (HSYF) Activities:**

HSYF Orientation and Social: A social to get acquainted with other students participating in the HSYF. Don't miss this kick off event on Sunday February 8.

HSYF Field Tour: On Monday February 9, Youth Forum participants will tour rangelands of the middle Rio Grande region, the Sevilleta National Wildlife Refuge, and visit historic Native American pueblos.

HSYF Professional Interaction Dinner: Monday evening, HSYF students have the chance to meet and visit with natural resource professionals in a relaxed dining atmosphere. Find out about career opportunities and begin to develop your professional network.

HSYF Paper Presentations: On Tuesday February 10, each HSYF participant will present a 6-8 minute presentation on a rangeland/grassland topic of their choice. The presentations will be judged, with the winner being invited to attend the 2010 Annual Meeting. Presenters remember to bring visual aides to illustrate your discussion and be prepared to answer questions from the judges. All SRM members and guests are invited to attend these presentations. A practice room will be provided. HSYF students attend the Student Conclave Luncheon on the presentation day.

HSYF Business Meeting: On Wednesday February 11, students attend this meeting to plan next year's HSYF activities and elect the 2009 HSYF officers.

HSYF Workshop: A workshop developed by the HSYF Subcommittee to help students develop skills to enhance their future as a rangeland professional.

## **Undergraduate and Graduate Student Activities:**

Student Conclave Business Meeting and Mixer: All SRM student members are part of the Student Conclave and invited to participate in Conclave activities. This event will be held on Sunday February 8.

Undergraduate Range Management Exam (URME): On Monday February 9, undergraduate teams will compete to test their knowledge and understanding of range management and ecology. The top 5 scoring individuals and top 5 scoring teams will be recognized at the Awards Ceremony.

Undergraduate Public Speaking Contest: On Monday afternoon, undergraduates can compete in an extemporaneous public speaking contest. Each student will select one of 3 provided speech topics related to range management. They will have 2.5 hours to develop a 5-7 minute presentation of that topic. Students can use any resources available at the SRM meeting to develop their speech, including people, displays, and presentations. Everyone is invited to attend these presentations.

Student Chapter Display Contest: Student SRM Chapters will display their exhibits as part of the Trade Show. Awards will be presented for the best display at the Awards Ceremony.

Plant ID Contest: This is a time-honored tradition of SRM. On Tuesday February 10, students will test their skills by identifying plants from a list of 200 important range plants. Awards will be given to top teams and the top individuals.


Tapping the Top Mixer: This Monday evening event provides students the opportunity to meet with top professionals from the range management and natural resource management fields. This is a casual event conducive to conversation between students and professionals.

Undergraduate Technical Paper Session: Undergraduate students give oral presentations on research projects or papers to the SRM membership.

Everyone at the Annual Meeting is invited to attend these presentations on Wednesday morning.


Rangeland Cup: This competition involves a team approach to problem solving, designed to promote critical thinking and cooperative, collaborative work on topics relevant to rangeland science and management. Teams present their solutions during the Monday afternoon poster session. Everyone is invited to view the posters and discuss the projects with team members.

Graduate Student Paper and Poster Competitions: The Graduate Student Paper and Poster Competitions offer graduate students the opportunity to compete in the presentation of their research in technical paper and poster sessions throughout the week. The four categories are M.S. Oral, M.S. Poster, Ph.D. Oral and Ph.D. poster. First and second prizes will be awarded in each category.




**MANUAL OF GRASSES OF NORTH AMERICA**  
Mary E. Barkworth, Laurel K. Anderson, Kathleen M. Capels,  
Sandy Long, and Michael B. Piep, eds.  
\$89.95 paper 978-0-87421-686-8

The *Manual of Grasses for North America* is designed as a successor to the classic volume by Hitchcock and Chase. It reflects current taxonomic thought and includes keys, illustrations, and distribution maps for the nearly 900 native and 400 introduced species that have been found in North America north of Mexico.



**OLD DESERET LIVE STOCK COMPANY**  
A Stockman's Memoir  
W. Dean Frischknecht  
\$39.95 cloth 978-0-87421-711-7

In the high country of the northern Wasatch Mountains, is what is left of one of the West's largest ranches. Deseret Live Stock Company was reputed at various times to be the largest private landholder in Utah and the single biggest producer of wool in the world. It also ran cattle. Incorporated in the 1890s the company was at the height of successful operations in the mid-twentieth century when Dean Frischknecht, bearing a recent degree in animal science, landed the job of sheep foreman.



**Utah State University Press** [www.usu.edu/usupress](http://www.usu.edu/usupress) 800 621 2736

# STUDENT ACTIVITIES AT-A-GLANCE

EVENT/ACTIVITY	TIME	LOCATION
<b>Sunday February 8th</b>		
Career Opportunities Room	8:00am-6:00pm	Tijeras
Plant ID Study Room/Exchange	6:00am-11:00pm	Centro del Sol
Speaker Prep Room	6:00am-7:00pm	Conference Room
HSYF Home Room	7:00am-11:00pm	Apache
Student Activities Committee Meeting	9:00am-2:00pm	San Juan
Agency On-The-Spot Hiring (several agencies)	10:00am-6:00pm	Suites A-C
Rangeland Job Fair Set-Up	8:00am-10:00am	Brazos
Rangeland Job Fair	10:00am-6:00pm	Brazos
Career Development Workshops	1:00pm-5:00pm	Cimarron, Dona Ana
Student Range Club Display Set-Up	12:00pm-6:00pm	Aragon-Southwest Exhibit Hall
Student Contest Registration	5:00pm-6:00pm	San Juan
Student Conclave Business Meeting and Social	5:00pm-8:00pm	Tesuque
HSYF Orientation/Social	7:00pm-10:00pm	Apache

EVENT/ACTIVITY	TIME	LOCATION
<b>Monday February 9th</b>		
Career Opportunities Room	8:00am-5:00pm	Tijeras
Plant ID Study Room/Exchange	6:00am-11:00pm	Centro del Sol
Speaker Prep Room	6:00am-7:00pm	Conference Room
Agency On-The-Spot Hiring (several agencies)	8:00am-8:00pm	Suites A-D
HSYF Home Room	7:00am-11:00pm	Apache
SRM Memorial Breakfast	7:00am-8:30am	ACC Ballroom
HSYF Technical Tour	7:00am-5:00pm	Load busses @ TBA
URME (Undergrad Range Management Exam)	8:00am-10:00am	Taos/Cochiti
Student Display Set-Up	8:00am-11:00am	Aragon-Southwest Exhibit Hall
UG Speaking Contest Late Registration	9:00am-10:30am	San Juan
UG Public Speaking Contest Topic Selection	10:00am-5:00pm	San Juan
UG Public Speaking Contest	1:00pm-5:00pm	Navajo and Nambe
Rangeland Cup	4:00pm-6:00pm	Aragon, Southwest Exhibit Hall
Tapping The Top	5:00pm-7:00pm	East Lobby 2nd Floor Foyer
Trade Show Mixer	6:00pm-8:00pm	Aragon, Southwest Exhibit Hall
HSYF Professional Interaction Dinner	6:00pm-9:00pm	Offsite

EVENT/ACTIVITY	TIME	LOCATION
<b>Tuesday February 10th</b>		
Career Opportunities Room	8:00am-5:00pm	Tijeras
Plant ID Study Room/Exchange	6:00am-11:00pm	Centro del Sol
Speaker Prep Room	6:00am-7:00pm	Conference Room
HSYF Home Room	7:00am-11:00pm	Apache
HSYF Paper Presentations	7:00am-5:00pm	Picuris
Plant ID Contest	8:00am-10:00am	Taos/Cochiti
Plant ID Contest Public Viewing	11:00am-3:00pm	Taos/Cochiti
Student Conclave Luncheon	12:00pm-2:00pm	Fiesta 1-4
Student Conclave Tour	2:30pm-5:00pm	Load Bus at (location TBA)
Student Range Club Exhibits	8:00am-5:00pm	Aragon, Southwest Exhibit Hall
Agency On-The-Spot Hiring (several agencies)	8:00am-8:00pm	Suites A-C
Dance	8:00pm-12:00am	Ballroom C



EVENT/ACTIVITY	TIME	LOCATION
<b>Wednesday February 11th</b>		
Career Opportunities Room	8:00am-5:00pm	Tijeras
Speaker Prep Room	6:00am-7:00pm	Conference Room
Agency On-The-Spot Hiring (several agencies)	8:00am-8:00pm	Suites A-C
HSYF Home Room	7:00am-11:00pm	Apache
HSYF Business Meeting & Workshop	8:00am-11:00am	Apache
Undergraduate Technical Paper Session	8:00am-12:00pm	Santa Ana
SRM Business Meeting and Luncheon	12:00 pm- 2:30 pm	ACC Ballroom
SRM Awards Ceremony	2:30pm-5:00pm	ACC Ballroom
Student Range Club Exhibits	8:00am-12:00pm	Aragon, Southwest Exhibit Hall

EVENT/ACTIVITY	TIME	LOCATION
<b>Thursday February 12th</b>		
Career Opportunities Room	8:00am-12:00pm	Tijeras
Speaker Prep Room	6:00am-5:00pm	Conference Room
Student Activities Committee Breakfast Mtg	8:00am-10:00am	TBA

## SRM CAREER DEVELOPMENT

Just as rangelands and grasslands are diverse, so are related careers. Just look at the SRM membership as an example of this diversity! In order to better match job opportunities with job seekers, SRM will again expand employment efforts at the 62nd Annual SRM Meeting and Trade Show in Albuquerque, New Mexico. SRM announces the second annual **2009 SRM RANGELAND JOB FAIR** scheduled for Sunday February 8, 8 am-6 pm. This is a free service for SRM members and Trade Show participants.

The mission of the **2009 SRM RANGELAND JOB FAIR** is to match prospective employers from the Federal Agencies, State and Provincial Governments, Private Industry, Academia, and Conservation Organizations with the high caliber of educated and enthusiastic prospects from SRM. We are also hoping to recruit potential employers from non-traditional sources such as the military. Attendance at the annual meetings at the Albuquerque Convention Center this year is expected to be between 1000-1500 people. Approximately 25 percent of attendees will be students and young professionals.

The job fair will involve a full day on Sunday February 8th, 2009. Employers will be provided space to display employment information, distribute vacancy announcements and interact with job seekers. Registered participants will be provided with one 6-ft table for displays in a large exposition area.

For an extra charge, we will also provide 4' X 8' display boards (see registration form). We will encourage all interested meeting attendees to drift through and browse the JOB FAIR between other scheduled activities, meetings and workshops. We do expect that all participants staff their tables/displays and be prepared to answer questions.

Members of the SRM Young Professionals Conclave (YPC) will be assisting with outreach efforts to employers and employees. If you are interested in this program, or know of prospective employers who may be, please feel free to contact a YPC member (see <http://www.rangelands.org/ypc/index.shtml>) or the JOB FAIR Coordinator, Linda Coates-Markle, BLM Liaison to SRM at [lcmarkle@rangelands.org](mailto:lcmarkle@rangelands.org) and/or 303-986-3309.

To register for the **2009 SRM RANGELAND JOB FAIR**, please complete the registration form <[http://www.rangelands.org/pdf/AM09\\_jobfair\\_reg\\_form.pdf](http://www.rangelands.org/pdf/AM09_jobfair_reg_form.pdf)> and return it to the address at the bottom of the form. Registrations will be accepted on a first-come, first-served basis, and space is limited. The deadline for receipt of all registrations is **Friday January 16, 2009**. On-site registration may be accepted, depending on available space, and will require payment of a \$100 late fee.

## AGENCY ON-THE-SPOT HIRING

**Sunday February 8, 2009 through Wednesday February 11, 2009.** Several federal agencies have successfully coordinated On-the-Spot Hiring programs at the SRM annual meetings in past years. For example, at the SRM 60th Annual Meeting in Reno, Nevada, the USFS and BLM successfully filled 18 Rangeland Management Specialist (GS-454)

entry level vacancies. Several more positions were filled subsequent to the meetings using the same applicant pool. And at the Joint Annual SRM/AFGC meetings in Louisville, Kentucky last year, and USFS successfully filled 17 Rangeland Management Specialist (GS-454) entry level positions.

# MORE CAREER DEVELOPMENT OPPORTUNITIES

## CAREER DEVELOPMENT WORKSHOP

In addition to the successful Student Employment Workshop (now called the Rangeland Employment Workshop), where you can ask questions on how to really succeed in the job market, SRM is planning to host additional workshops on: "What are Employers Looking For," "What are Agencies Looking For," and "Thinking about Graduate School." All workshops will be one-half hour to two hours in length and will be offered concurrently with the 2008 Rangeland Job Fair on **Sunday afternoon, February 8th, 2009**. Top professionals from both the private and public sectors of rangeland management have volunteered to guide these workshops to benefit SRM members.

## THE FUTURE OF THE RANGELAND PROFESSION 1:00 - 2:00pm

Facilitator: Linda Coates-Markle, BLM Liaison to SRM

The intent of this general session of the workshops is to set the stage as to what different sectors of the rangeland profession see as the future needs and trends for the profession. We hope to have representatives of the full diversity of the SRM membership including professionals representing the federal agencies, universities, producers, consultants, and others within rangeland management (and other related professions) at all stages of their careers. Members of the SRM Young Professional Conclave and Leadership Development Committee will also be invited to play a role. These individuals will be asked to speak to their perspectives of the changing demographics of the profession, needed training for new professionals, how to establish credibility within the profession, and the types of job opportunities they see as being available in the future. Participants will have an opportunity to ask questions related to any

aspect of the profession for which they have concerns, need guidance, would like feedback on or are just plain curious. We expect lively discussions!

## CONCURRENT SESSION - OPPORTUNITIES IN GRADUATE SCHOOL - 2:00pm - 4:00pm

Facilitator: Ben Baldwin, Utah State University.

This two-hour workshop will be offered for the first time at the 2009 meeting. Many undergraduate students, as well as younger range professionals, find themselves unsure whether they should pursue or continue in a job in the profession, or whether they would be better off earning a graduate degree. The answer will vary for each person, but this workshop will offer viewpoints that address the question from various angles. In fact, the workshop will focus on two important questions: How do I choose the right path for me: Graduate school or professional experience? And if I choose graduate school, how do I find the right program, funding and faculty advisor?

These questions will be addressed by a panel of speakers who will make brief presentations and field questions from the audience. Included on the panel will be university professors, current or recent graduate students, and field professionals who hire range graduates.

The target audience for this session is expected to include members of the Young Professionals Conclave as well as college juniors and sophomores who are just beginning to think about what might happen after graduation.

**CONCURRENT SESSION - RANGELAND  
EMPLOYMENT WORKSHOP - 2:00pm -  
4:00pm** (formerly Student Employment Workshop)

Facilitators:

Jack Alexander, Synergy Resource Solutions, Inc.,  
Belgrade, Montana

Randy Reichert, USFS, Greeley, Colorado

Employers are looking for ethical, motivated, hard working, persons who can think, solve problems, communicate effectively (all modes), work effectively on a team, and have good leadership skills. Yes, they want certain specific technical knowledge and skills, but they generally assume that a person has ample technical ability so that they can train them in the technical components of their job.

At this workshop each participant will be asked to bring a specific job application along with a cover letter and their resume that they developed for that specific job. The workshop will help students analyze their materials with discussions on how they may improve it. Further discussions will concentrate on the process of evaluating job announcements, gathering information, preparing check lists, and then writing the resume and cover letter, submitting the application, follow-up, and preparing for the interview.

Also at this workshop you can ask the questions on how to really succeed in the job market. This is a confidential and discreet workshop. You can ask the hard questions without potential employers present. Expect to get honest, straight-forward answers on what employers really look for.

Did you know that the average time spent on a resume by a future employer is 20 seconds? At this workshop a team of experienced range professionals will offer critical real life resume assessments with usable suggestions to help you learn how to become one of the people that get 20 minutes of a future employer's time rather than 20 seconds.

Potential employees that attend this workshop will also learn about appropriate interview attire, the importance of networking, and having a business card. Attendees also will find out why people that serve on committees as students typically get job offers when they graduate.

If you would like to learn more about these things, we would like to see you at the Rangeland Employment Workshop.

**RECRUITMENT AND HIRING WITHIN THE  
FEDERAL AGENCIES 4:00pm - 5:00pm**

Facilitators:

Linda Coates-Markle, BLM-SRM Liaison, Wheat  
Ridge, Colorado

Cindy McArthur, USFS-SRM Liaison, Washington,  
DC

Dennis Thompson, NRCS, Washington, DC

Leonard Jolley, NRCS, Beltsville, Maryland

Other Federal and State Agencies, TBA

Students and professors alike often ask "What are agencies looking for?" and "How does the agency hiring process work?" These are good questions and the agencies are very interested in the opportunity to address these questions during a one-half hour workshop at the 2008 Meetings. Human Resource and/or Range Specialists from different agencies will be present to explain the hiring process from vacancy search to selection. Details will be covered regarding registration with the different on-line application sites, inputting quality, easy-to-read resumes and tips for strong responses to the vacancy questions. They will discuss the OPM classification series specific to rangeland management positions and how to interpret mandatory qualification requirements.

Land managers from different agencies will be present to discuss desired attributes of highly qualified applicants. Good grades are important but field experience and communication skills are even more important. Also addressed will be: "What does a hiring official look for in a potential applicant?" and "What types of questions are typically used during interviews and why?"

The intent of this workshop is for interested participants to walk away with a good general knowledge of the agency hiring process, and perhaps remove some of the mystique and intimidation that may have previously surrounded it. We will also introduce the Agency Hiring-on-the-Spot program and discuss how this process will work at the SRM Annual Meetings in Albuquerque.

# 2009 Plenary Session

## Rangelands – Their Cultural and Scientific Importance to New Mexico Communities

Monday, February 9 – 9:00 am to 12:00 noon

*This program of lively topics and engaging speakers will provide New Mexico perspectives on the merging of culture, science, and innovation - the central theme of this convention.*

### AGENDA

#### 9:00 Opening Remarks

Dr. Gerald Thomas,  
Former NMSU  
President



#### Opening

■ Dr. Gerald Thomas is the former President of New Mexico State University and served 14 years in that capacity. He maintains a special interest in world food problems, environmental issues, and natural resource management. This interest has taken him on assignments with government and private industry to over 50 different countries of the world. He is a Charter member and has served as President of the Society for Range Management.

#### 9:10 Presentation of the Flag

Patriotic Native  
American flag song



■ Dr. Allen Rasmussen is current President of the Society for Range Management and will be the session moderator. Allen grew up in New Mexico and has spent his professional time in the Southern Great Plains and the Intermountain West. Currently he is the Dean in the Dick and Mary Lewis College of Agriculture, Natural Resources, and Human Sciences at Texas A&M University-Kingsville.

Introductions/Master  
of Session

Dr. Allen Rasmussen

#### Cultural Perspectives -

#### 9:20 Our Heritage

Dr Eric Blinman



#### Cultural Perspectives

■ Dr. Eric Blinman is Director of the New Mexico Office of Archaeological Studies in Santa Fe. His research activities include paleoclimate studies, tribal consultations, archaeomagnetic dating, and reconstructions of the social history of Puebloan peoples. Eric's special interest focuses on Ancestral Puebloan history.

#### 9:45 Rural Communities

Dr. Larry Torres



■ Dr. Larry Torres is a native of Arroyo Seco, New Mexico and currently teaches foreign languages at the University of New Mexico-Taos. He is the recipient of the Camino Real Award for Outstanding New Mexicans and is internationally recognized as a speaker in the field of Global Education. His writings on New Mexico Hispanic culture have touched thousands through print and news media. He often portrays the persona of the conquistador, Don Francisco Vasquez de Coronado and others to illustrate cultural contributions.

#### Science Perspectives –

#### 10:05 Our Scientific History

Dr. Kelly Allred

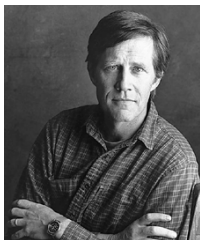


#### Science Perspectives

■ Dr. Kelly Allred will address “New Mexico’s Plants and Rangelands” with his usual wit and insight. Dr. Allred is curator of the range science herbarium which houses about 25,000 specimens in the Department of Animal and Range Sciences at New Mexico State University. About half of these specimens are grasses, emphasizing the flora of New Mexico.

#### 10:30 Applications of Science

William (Bill) deBuys



■ William (Bill) deBuys is a writer, conservationist, and Professor of Documentary Studies at the College of Santa Fe. His first book, *Enchantment and Exploitation: the Life and Hard Times of a New Mexico Mountain Range*, combines the cultural and natural history of northern New Mexico and won the Southwest Book Award. Bill was appointed by the White House in 2001 as the first Chair of the Board of Directors for the Valles Caldera National Preserve in northern New Mexico.

**Innovations –**

**10:55 A Future of Possibilities**  
Dr. Lowell Catlett



**Innovations**

■ Dr. Lowell B. Catlett is Dean and Chief Administrative Officer for the College of Agriculture and Home Economics at New Mexico State University. He is an exciting futurist whose knowledge of technologies and their implications on the way we will live and work is addressed in his varied and upbeat presentations. His thought-provoking presentations are always highly entertaining.

**Closing -**

**11:25 Albuquerque Sights and Sounds**  
Steve Stucker, KOB-TV4



**Closing**

■ Steve Stucker is the co-anchor and weatherman on New Mexico's top-rated morning program, Eyewitness News 4 Today. He will highlight “Albuquerque’s Sights and Sounds” and let you know of fun happenings in this wonderful city.

**11:45 Concluding Remarks**  
Dr. Allen Rasmussen

## TECHNICAL PROGRAM AT-A-GLANCE

### Sunday afternoon, February 8, 2009

Symposium:

- Advances and Challenges of Integrating Adaptive Management in Range Practices

Workshop:

- Rangeland Technology and Equipment Council Workshop: GIS and GPS Technology to Improve Rangeland Improvement Success

### Monday morning, February 9, 2009

SRM Memorial Breakfast  
Plenary Session

### Monday afternoon

Technical Sessions:

- Fire Ecology
- Water and Riparian Systems
- Ecology I

Symposia:

- Western Rangelands Partnership: Using the Internet for Information Transfer
- Military Rangelands Supporting National Security
- Wolf-Livestock Interactions: Using Science to Develop Innovative Management to Protect Natural and Cultural Resources

Poster Session A

Set up 11:30 am-1:00 pm

Session start 1:00 pm

Authors present 4:00-6:00 pm

Take down Tuesday, February 10, 10:00 am-11:30am

### Tuesday morning, February 10, 2009

Technical Sessions:

- Vegetation Management and Restoration I
- Grazing I

Symposia:

- Solutions to Locoweed Poisoning in New Mexico and the Western US: Collaborative Research of New Mexico State University and USDA/ARS Poisonous Plant Lab
- Rangeland Hydrology and Erosion Technology Advancements
- Rangeland Animal Behavior: Integration of Ethology and GPS/GIS/RS Technologies (all day)
- Ecology and Management of Invasive Annual Grasses in the West: Current State of Knowledge and Future Directions (all day)
- Military Rangelands Supporting National Security (continued from Monday pm, all day)

Forum:

- High School Youth (all day)

### Tuesday afternoon

Technical Sessions:

- Ecology II
- Vegetation Management and Restoration II
- Grazing II

Symposium:

- Conservation Effects Assessment Project Rangeland Literature Synthesis: An Initial Report

Forum:

- Producers' Forum: Tales of Tradition and Innovation on the New Mexico Range



## Poster Session B

Set up 11:30 am-1:00 pm

Session start 1:00 pm

Authors present 4:00-6:00 pm

Take down Wednesday, February 11, 10:00 am-11:30 am

## Wednesday morning, February 11, 2009

### Technical Sessions:

- Undergraduate Papers
- Range Plants
- Weed Management with Herbivory
- Climate and Climate Change

### Symposia:

- Development of Comprehensive Grazing Policy Guidelines: A Case for Adaptive Collaboration within the Rangeland Profession
- Wildlife Habitat Management on Rangelands Using USDA-NRCS Conservation Innovation Grants

### Forum:

- Linking Restoration of Rangeland Communities and Processes to Societal Outcomes: The Whys and the Hows

## Wednesday afternoon

Business luncheon and award ceremonies

## Thursday morning, February 12, 2009

### Technical Sessions:

- Invasive Species/Weed Management
- Wildlife I
- Economics, Sociology and Policy
- Assessment and Monitoring

### Symposia:

- Rangeland Ecohydrology: Key Concepts and Application to State and Transition Model Development
- Grazing Systems Research: Focusing on the Managers

### Forum:

- Riparian Ecological Sites: Grazing Management Processes and Strategies for Riparian-Wetland Areas (all day)

## Thursday afternoon, February 12, 2009

### Technical Sessions:

- Wildlife II
- Remote Sensing and Technology
- Education

### Symposia:

- Holistic Management: A Perspective on Merging Culture, Science and Innovation
- Borderlands Watershed Management: A Collaborative Approach to Resource Management
- Wildland Invasive Species Restoration

## Presentation Instructions

If you are unable to make your presentation, and have to withdraw your presentation, please contact the program co-chair by email ([khavstad@nmsu.edu](mailto:khavstad@nmsu.edu)). Whereas the meeting is fully scheduled at the present time, some slots may open up closer to the meeting.

### ✓ Specific instructions for an oral presentation:

Twenty minutes are allotted for each oral presentation in a technical session. The length of time for a symposium presentation is determined by the symposium organizer. Presentations must be in either Microsoft Office PowerPoint 2003 (XP) or Adobe PDF; or PowerPoint 2007 (Vista). Please put the presentation title, author(s) and institution(s) on the first slide.

Please bring your presentations on a USB flash drive (also called a thumb drive or jump drive) forty-five minutes before the start of your session. CD-ROM drives will be available if necessary, but loading presentations onto the computers is slow. File names should include the last name of the presenter and the session day of the week and time. It is the responsibility of the speakers to ensure that their presentations are properly loaded, accessible, and operational prior to the start of their session. The session moderator (or another volunteer) will load the file onto the computer, and afterwards, will delete your presentation from the computer.

### ✓ Specific instructions for a poster presentation:

Poster boards will be 4 feet high by 8 feet wide (120 cm by 240 cm). The boards will be covered with cloth, so posters can be mounted with either Velcro or push pins. The posters must be put up and taken down at designated times in Aragon Exhibit Hall. On Monday (February 9), presenters in Poster Session A are expected to be by their posters from 4:00 PM to 6:00 PM; and for Poster Session B on Tuesday (February 10) from 4:00 PM to 6:00 PM. Titles should be clearly readable from 10 feet (3 m) away, so the font size should be 54 pt. (0.75 in or 19 mm) or larger. Text should be readable from 5 feet away and should be 24 pt. or larger.

# TECHNICAL PROGRAM

**Sunday, February 8, 2009, 1:00 PM - 5:00 PM**

## **Symposium: Advances and Challenges of Integrating Adaptive Management in Range Practices**

Adaptive Management has been embraced by the Department of Interior as policy; a technical manual has been published. A number of advances in incorporating AM into range management plans and restoration efforts have been made. This symposium will draw from two case examples: the Sage Steppe Restoration in the Sierra Nevada's and the Resource Management Plan for Northwest Colorado. In addition, the symposium will address how the new field guide that is currently in production can be used as an aid to practitioners as well to help fill in gaps in management. This symposium will engage participants in a dialogue using case examples.

Steve Light, Tim Burke, Rich Whitley, Organizers

**Welcome and Introductions** Steve Light, BLM

**Adaptive Management Opportunities and Challenges including Climate Change, ESA and Agency Legacy Issues** Steve Light

**The Sage Steppe Restoration Plan and Progress** Tim Burke, BLM

**Northwest Colorado Case and Progress in Changes Incorporated into the Snake River RMP** Rich Whitley, BLM

**Discussion and Small Group Work**

---

**Sunday, February 8, 2009, 1:00 PM - 5:00 PM**

## **Workshop: Rangeland Technology and Equipment Council Workshop: GIS and GPS Technology to Improve Rangeland Improvement Success**

Mike Pellant and Nancy Shaw, Organizers

A detailed agenda and speaker list was not available by press time.

---

**Monday, February 9, 2009, 1:00 PM - 5:00 PM**

## **Technical Session: Fire Ecology**

**Effects of Prescribed Burning on Grazed Shortgrass Steppe** David J. Augustine, USDA-ARS; D.G. Milchunas, J.D. Derner

**Treated vs. Untreated Understory Forest Response Following Wildland Fire in the Southwest: Implications for Range Managers** Doug S. Cram, New Mexico State University; Terrell T. Baker, Carl Edminster

**Fuels in the Sagebrush Steppe and Juniper Woodlands of the Great Basin: A New Tool to Better Predict Fuel Loading** Andi A. Stebleton, University of Idaho; Stephen Bunting

**Blue Grama (*Bouteloua gracilis*) Response to Season of Burn and Simulated Fire Temperatures in the Chihuahuan Desert** Miguel Luna-Luna, INIFAP, Mexico; Carlton M. Britton, Carlos Villalobos, David B. Wester, Sandra Rideout-Hanzak, Francisco Villanueva

**Innovative Use of Seed Coating Technologies for the Restoration of Soil Wettability and Perennial Grasses on Burned Arid and Semi-Arid Rangelands** Matthew D. Madsen, Brigham Young University; Steven Petersen, Bruce Roundy, Bryan Hopkins, et al.

**Effects of the East Amarillo Complex Wildfires in the Texas Panhandle** Grant Sorensen, Texas Tech University; Sandra Rideout-Hanzak, David Wester, Carlton Britton, Heather Whitlaw

**Multiple Regression Models to Predict Biomass of Purple Threeawn and Blue Grama: A Non-Destructive Method to Measure Plant Response to Fire** Grant E. Sorensen, Texas Tech University; Sandra Rideout-Hanzak, David B. Wester

**Response of Six Tropical Grasses to Prescribed Burning in the West Coast of Mexico** Jose Francisco Villanueva, INIFAP, Mexico; Luis F. Negrete, Carlos Villalobos, Carlton M. Britton

**Aboriginal Use of Fire and Implications for Active Management of Sagebrush - Grass Communities** J. Kent McAdoo, University of Nevada; Brad Schultz, Sherman Swanson

**Evaluation of Patch-Burn Grazing Production and Impact to Vegetative Height-Density and Composition** Malissa L. Underwood, Missouri Department of Conservation; Brent Jamison

---

**Monday, February 9, 2009, 1:00 PM - 5:00 PM**

## **Technical Session: Water and Riparian Systems**

**Hydrologic Functions of a Valley-Scale Rangeland Riparian Area** Carlos G. Ochoa, New Mexico State University; Alexander Fernald, Steven Guldan, Vincent Tidwell, Phillip King, Yeliz Cevik, Ciara Cusack

**Livestock Grazing Management Systems for Riparian-Wetland Areas** James Eisner II, National Riparian Service Team

**Improving Water Quality Using Range Management in the Belle Fourche River Watershed** Matthew B. Stoltenberg, RESPEC Consulting Services

**Adobe Meadows NRCS Wetland Reserve Project: Phase II, Implementation** Robert A. Pearce, Natural Resources Conservation Service; Jessica Groves

**Three Tiered Wetland Condition Assessment Using a Probabilistic Design** Christina L.M. Hargiss, North Dakota State University; Edward S. DeKeyser, Don R. Kirby, Michael J. Ell

**Indicator Bacteria: Sentinels of Safe Water, Or Maybe Not??** Holly George, University of California Cooperative Extension; K.W. Tate, D.F. Lile, B.R. Hoar, E.R. Atwill, C.D. Childers

**Longstem Transplants for Riparian Plantings in the Southwest** Gregory A. Fenchel, USDA-NRCS, Los Lunas Plant Materials Center

---

**Monday, February 9, 2009, 1:00 PM - 5:00 PM**

## **Technical Session: Ecology I**

**The Importance of a Historical Perspective for Western Rangeland Restoration and Management** Lesley R. Morris, USDA-ARS; Tom Monaco

**Are Historic Disturbance Regimes Appropriate in Sagebrush Plant Communities Under Modern Conditions?** Kirk W. Davies, USDA-ARS; Tony J. Svejcar, Jon D. Bates

**Identifying Relationships Between Livestock Grazing, Plant Community Characteristics and Soil Attributes in Central Sierra Nevada Meadows** Leslie M. Roche, University of California, Davis; K.W. Tate, A.T. O'Geen, D.J. Eastburn

**Patchiness of Mixed-Grass Prairie at Different Grazing Intensities** Jack E. Norland, North Dakota State University; Ryan F. Limb, Jay M. Volk, Don R. Kirby

**Effect of Annual, Growing Season, and Spring Precipitation on Peak Standing Crop at Three Locations** Gale H. Dunn, USDA-ARS; Lori Wiles, Jeff Printz, Bob Patton, Anne Nyren

**Developing New Tools to Understand Vegetation Change in the Sagebrush Steppe and Pinyon-Juniper Woodlands of the Great Basin Desert Region** Lesley R. Morris, USDA-ARS; Neil E. West, Ronald J. Ryel

**Survivors of Invasion: Seed Bank Response to Juniper Expansion in the Sagebrush Steppe** Corinne Duncan, Oregon State University; Richard Miller, David Pyke, Jane Mangold, Jaime Ratchford

**Phenotypic Variation of *Achnatherum hymenoides* in Relation to Environmental Factors** Michael J. Cashman, USDA-ARS; Richard Johnson, Linda Hardesty

**Insect Abundance and Plant Community Structure: Implications for Sage-Grouse Brood Rearing Habitat** Erica A. Ersch, Oregon State University; Tamzen Stringham, Jeffrey Miller

**Range Scientists Should Calculate Effect Sizes, Not P-Values** Matthew J. Rinella, USDA-ARS; Jeremy J. James

**Monday, February 9, 2009, 1:00 PM - 5:00 PM**

**Symposium: Western Rangelands Partnership:  
Using the Internet for Information Transfer**

The Western Rangelands Partnership has developed a regional website (<http://rangelandswest.org>) to provide quality information on all aspects of rangeland ecology and management. This partnership consists of 19 land grant universities, the Agricultural Network Information Center, the Society for Range Management, and USDA-Cooperative States Research, Extension, and Education Service. This symposium will show how a regional website with individual state websites can be integrated into the delivery of quality information about rangelands.

**Introduction to Rangelandswest.org and the Western Rangelands Partnership** Carla Long Casler, University of Arizona

**A Collaborative Model for Creating a Web Portal on Rangeland Management** Barbara Hutchinson, University of Arizona

**Development of Content Areas and Groups, Versions One Through Three: What's Working or Not** George Ruyle, University of Arizona

**Implementing a Database- and User-Driven Portal: Metadata and Technical Issues, and Results of User Survey** Jeanne Pfander, University of Arizona Libraries

**Content Development Process for Rangelandswest.org** Mark S. Thome, University of Hawaii at Manoa

**Touring Rangelandswest.org: Special Features and Hot Topics** Julie Conley, Consultant To Western Rangelands Partnership

**Connecting to State Rangelands Websites** Norman R. Harris, University of Alaska Fairbanks

**Tools for the Future** Carla Long Casler, University of Arizona; Barron Orr, John A. Tanaka

**Feedback and Discussion**

**Conclusions and Where To In the Future** Karen L. Launchbaugh, University of Idaho; Merrita Fraker-Marble

---

**Monday, February 9, 2009, 1:00 PM – 5:00 PM and**

**Tuesday, February 10, 2009, 8:00 AM - 5:00 PM**

**Symposium: Military Rangelands Supporting  
National Security**

The objective of this symposium is to address and raise awareness of ecological land management taking place on U.S. military lands, and to share ideas, approaches, and information with application to public land natural resource management.

**Opening Remarks** Thomas Smith, US Army Corps of Engineers

**Natural Resources Mangement on Military Lands – Past to Future** Eric N. Anderson, Army National Guard

**Livestock Grazing at Avon Park Air Force Range, Florida: A Synopsis of Rangeland Management from 1859 to Present-Day** Clarence V. Morgan, US Air Force

**Striving to Achieve "No Net Loss"** Terry L. Bashore, Headquarters Air Combat Command

**Army Land Management Planning** John R. Phillips, US Army

**Heritage Livestock Grazing as a Tool for Managing Southeastern Longleaf Pine Savanna** Carl P. Qualls, University of Southern Mississippi

**Conservation of Fish And Wildlife Resources – Cooperative Efforts of the Fish and Wildlife Service and the Departments of the Army, Navy, and Air Force** Steve Helfert, US Fish and Wildlife Service

**Collaboration in the Desert: An Interagency Effort to Protect and Restore the California Deserts** Clarence A. Everly, Desert Managers Group

**Merging Mission: Soldiers, Neighbors and Species** Nancy S. Natoli, US Army

**Targeting Cooperative Conservation Initiatives to Support Conservation and Military Training** Gary L. Belew, US Army Environmental Center

**The Front Range Eco-Regional Partnership** Stanley Rogers, Headquarters Air Force Space Command

**Sylvatic Plague, an Ancient, Notorious and Resilient Invasive Species Now Inhabiting the Semi-Arid Western US Remains Steeped in Mystery** Jeffrey Wimsatt, University of Virginia

**Feral Swine on the Great Plains: A Rapidly Expanding Exotic Species** Philip S. Gipson, Texas Tech University

**Wind Power Energy Development and Potential Impacts on Wildlife** Warren Ballard, Texas Tech University

**The San Pedro Basin and Fort Huachuca: Balancing Human and Ecosystem Water Needs** Thomas Runyon, Environmental and Natural Resources Division

**Resiliency of Improved Germplasms to Military Training at the Yakima Training Center Washington** Timothy J. Cary, ERDC-CRREL; Kay H. Asay, Kevin B. Jensen, Blair Waldron

**Nitrogen-Fixing Trees and Shrubs: Functions and Roles in Rangeland Ecosystems** Jeffrey O. Dawson, University of Illinois

**Field Research on the Assessment of Community Impacts from Weapons Noise** Edward T. Nykaza, US Army Corps of Engineers

**Phytoremediation as a Tool for Military Land Management** Elly P.H. Best, US Army ERDC; T. Smith, Frank L. Hagen, Jeffrey O. Dawson

**Elk Habitat Use in Northeastern Kansas: The Role of Military Training Areas as Refugia** Jonathan M. Conard, Sterling College

**Heterogeneous Disturbance Enhances Biodiversity** Steven D. Warren, Colorado State University

**A Test of Symbiotic Rangeland/Native Pollinator in West Texas** Donald Pitts, US Army Corps of Engineers

**Scientific and Other Challenges in Working on Military Lands** Ann Hild, University of Wyoming

**Integrated Wildlife Resource Research, Monitoring, and Management on a Military-Public Lands Complex in the Sonoran Desert, Southwestern Arizona** Steve S. Rosenstock, Arizona Game and Fish Department; Randy English, Jason Gibbons

**Vegetation and Invasive Species Impacts on Military Lands** Robert M. Lacey, US Army Corps of Engineers

**Cooperative Efforts to Manage the Invasive Species Saltcedar on Fort Peck Lake in Northeastern Montana** Patricia Gilbert, US Army Corps of Engineers

**A Simple GIS Model to Prioritize the Use of Prescribed Burning Resources** Carla Picinich, The Nature Conservancy

**Vegetation Guide for Restoration of Military Lands** Antonio J. Palazzo, US Army-ERDC; Kevin B. Jensen, Kay H. Asay, Timothy J. Cary

**Fire Management on Military and Other Federally Managed Lands** John C. Ward, Applied Services and Information Systems

**Grassland Recovery After Mechanical Mastication of Ashe Juniper** Carla Picinich, The Nature Conservancy

**Army and DOD Invasive Species Management** Harold E. Balbach, US Army ERDC-CERL; Lisa Rew, Joseph Fleming

**New Range Plants** Donald Pitts, US Army Corps of Engineers

**Closing Remarks** Thomas Smith, US Army Corps of Engineers

---

**Monday, February 9, 2009, 1:00 PM - 5:00 PM**

**Symposium: Wolf-Livestock Interactions: Using  
Science to Develop Innovative Management to  
Protect Natural and Cultural Resources**

This symposium will generate dialogue regarding the concepts of non-lethal impacts of wolves on livestock, potential effectiveness of livestock management practices to mitigate wolf depredations of livestock, managing natural resources for multiple objectives, socio-

economic impacts of wolves on rural communities dependent on agriculture, and combined impacts of wolf and human harvest on big game populations.

**Overview of Indirect Impacts of Predators on Livestock Foraging Behavior** Larry D. Howery, The University of Arizona; Bryan M. Kluever, Stewart W. Breck

**Wolf-Livestock Interactions in the Northern Rocky Mountains** Patrick E. Clark, USDA-ARS; Douglas E. Johnson, Kerry Wilson, Larry Larson, Michael Johnson, Fredrick Pierson

**The Role of Science for Optimizing Wolf-Livestock Coexistence: Where We've Been and Where We Should Go** Stewart Breck, USDA-APHIS

**Mexican Gray Wolf Reintroduction Program in the Southwest** Benjamin Tuggle, US Fish and Wildlife Service

**Wolf-livestock Interactions: A Rancher's Perspective** Laura Schneberger, Rafter Spear Ranch, NM

**Discussion and Feedback**

---

**Monday, February 9, 2009, 1:00 PM - 6:00 PM and**

**Tuesday, February 10, 2009, 8:00 AM - 10:00 AM**

**Poster Session A: Ecology**

**Describing Ecosystem Shifts in Rangelands Using Data-Driven State and Transition Models** Emily J. Kachergis, Colorado State University; M. Fernandez-Gimenez, M. Rocca

**Prediction, Detection, and Monitoring of Invasive Species in Forest, Rangeland, and Aquatic Ecosystems: A Synthesis of USDA Forest Service's Rocky Mountain Research Station Research Program** Mee-Sook Kim, USDA Forest Service; Jack L. Butler

**Native Grass Characteristics within Xeroriparian Communities of the Barry M. Goldwater Range-East, Arizona** Eva Osmer, University of Arizona; Jeffery S. Fehmi

**Rangeland Assessment and Update of Soil - Ecological Site Correlation for Dinosaur National Monument** Matthew K. Barnes, USDA-NRCS; Herman B. Garcia, Steve Park

**The Interacting Effects of Grazing and Productivity on Carabid Beetle and Spider Communities in Semi-Arid Grasslands** Eleanor R. Bassett, Department of Science, Canada; Lauchlan H. Fraser, Karl Larsen

**Characterization of the Population Structures in the Wildland Collections of *Dalea ornata* and *D. searsiae* from the Western US** Kishor Bhattarai, Utah State University; B. Shaun Bushman, Douglas A. Johnson, John G. Carman

**Mongolian Rangelands and Resilience (MOR2): Transcending Boundaries in Collaborative Research Planning** Maria E. Fernandez-Gimenez, Colorado State University; Bathkhisig Baival, Steven Fassnacht, Corrie Knapp, Melinda Laituri, Robin Reid, Jessica Thompson

**Development of a Simulation Modeling Tool to Evaluate Ecological Impacts of Livestock Grazing in the Eastern Sierra of California** David W. Martin, Los Angeles Department of Water and Power; Terry McLendon, Cade Coldren, Mike Childress, Joe Trlica

**Successional Changes of Native and Modified Plant Communities of the Rough Fescue Ecological Site in Alberta** Michael J. Alexander, Alberta Sustainable Resource Development, Canada; Michael G. Willoughby

**Plant and Soil Transitions Due to Conifer Encroachment in Aspen Stands of Lassen Volcanic Park, California** Sarah McCullough, UC Davis; Kenneth Tate, Michael Whiting, Anthony O'Geen

**Effects of Black-tailed Prairie Dog (*Cynomys ludovicianus*) on Short Grass Vegetation of the Chalk Flats Region of Western Kansas** Dustin H. Tacha, Fort Hays State University; Charles D. Lee, Robert A. Nicholson, Rob Channell

**Age and Cultivar Effects on Heavy Metal and Metalloid Concentration in Alfalfa** Elisabeth Poscher, Agriculture and Agri-Food Canada; Michael Schellenberg, John Clarke, Myriam R. Fernandez; et al.

**Denitrification as a Function of Moisture Gradients and Annual Livestock Utilization in Upper Montane Meadows of the Central Sierra Nevada** Leslie M. Roche, University of California, Davis; K.W. Tate, A.T. O'Geen, D.J. Eastburn

**Ecological Site Descriptions as a Management Tool: Results of an SRM Workshop** Joel R. Brown, USDA-NRCS; Wendell Gilgert, Terry Messmer, Mark Brunson, Jeremy Maestas

**Setting the Stage to Enhance Ecological Site Description Applications to Wildlife Management in Sagebrush Ecosystems: A 2007 Society for Range Management Workshop** Terry A. Messmer, Utah State University; Wendell Gilgert, Joel Brown

**Litter Decomposition in a Sierra Nevada Riparian Meadow as a Function of Plant Species, Distance from Stream Edge, and Grazing** Edward A. Vasquez, USDA-ARS; Gregg Riegel, Tony J. Svejcar

**Adapting Ecological Sites Descriptions to Enhance Wildlife Management: Lessons Learned from the 2007 Society for Range Management Workshop** Wendell Gilgert, USDA-NRCS; Jeremy Maestas, Terry A. Messmer, Joel Brown

**The Effect of Brush Mowing on Invertebrate Populations in Sagebrush Ecosystems** Elizabeth With, USDA-NRCS; Lars Santana, Tom Eager, Kevin Alexander, Evan Bulla, Angel Watkins

**Enhancing Knowledge of Rangeland Ecological Processes with Benchmark Ecological Sites** William G. Ypsilantis, USDI, BLM; Michael "Sherm" Karl, Tim Bottomley, Pete Biggam, Anthony O'Geen, et al.

**Distribution of Switchgrass in Mexico** Juan M. Martinez Reyna, Universidad Autonoma Agraria Antonio Narro, Mexico

**Management Effects on Dynamic Soil Properties in the Northern Great Plains** Stanley C. Boltz, USDA-NRCS

**Poster Session A: Plants**

**Seed Coat Dormancy on Native Plant Species from Chihuahua, Mexico** Alicia Melgoza, UACH, Mexico; Abigail Vazquez, Pedro Juardo, Carlos Morales, Carlos Ortega, Gerardo Bezanilla, Mario H. Royo, et al.

**Using a Hot Plate to Estimate Seed Viability** Clare L. Poulsen, USDA-ARS; Chad Boyd, Jane M. Mangold

**Hybrid Buffelgrass: An Option for Higher Forage or Biomass Production in Mexico** Jorge R. Gonzalez-Dominguez, Saltillo, Coahuila, Mexico; Susana Gomez-Martinez

**Morphological Traits in Some Commercial and Experimental Buffelgrass Varieties** Susana Gomez-Martinez, Universidad Autonoma Agraria Antonio Narro, Mexico; Jorge R. Gonzalez-Dominguez

**Seed Polymorphism in Two Western Nevada Indian Ricegrass Communities** Rachel Ezzell, USDA-ARS; Charlie D. Clements, Dan N. Harmon, Mark Weltz

**Long Term Storage of Mojave Seed Species** Charlie D. Clements, USDA-ARS; Michele Clark, Dan Harmon, James Young

**Germination Comparisons of Crested Wheatgrass Cultivars Hycrest and Hycrest II** Dan N. Harmon, USDA-ARS; Charlie Clements

**Poster Session A: Invasive Species/Weed Management**

**Exotic Weeds and Plant Species Diversity as Affected by Groundwater Depth in the Great Basin** Ricardo Mata-Gonzalez, Oregon State University; Terry McLendon, David W. Martin, et al.

**Pastoral Livestock Facilitate Dispersal of *Prosopis juliflora* in an Ethiopian Wildlife Reserve** Almaz Kebede, Ethiopian Wildlife Conservation Authority; D. Layne Coppock

**Targeted Grazing - Using Aversion Trained Sheep for Vineyard Floor Vegetation Control** Morgan Doran, University of California; John Harper, Roger Ingram, Stephanie Larson, Mel George, Emilio Laca

**Forage Species With Nitrate Toxic Principle Accumulation Capabilities for Cattle in Rangelands of Sonora, Mexico** Fernando A. Ibarra, INIFAP-Costa de Hermosillo, Mexico; Francisco G. Denogean, Martha H. Martin, Salomon Moreno

**Using Hoof Action to Control Clubmoss** Robert W. Kilian, USDA-NRCS; Katrina Johnson, Renee Nelson

**Arizona Invasive Species Strategic Management Plan** John H. Brock, Arizona State University Polytechnic; Thomas McMahon, Brian McGrew

**Invasions of Kentucky Bluegrass in the Northern Great Plains: Does Precipitation or Defoliation Drive It?** John R. Hendrickson, USDA-ARS; Jinxiang Liu

**Landscape Scale Constraints on Conversion of a Sagebrush Steppe Ecosystem to an Annual Grass Dominated Stable State** Marques D. Munis, Colorado State University; Cynthia Brown, Roy Roath, Mike Coughenour

**Long-Term Response of African Rue and Associated Vegetation to Herbicides** Laurie B. Abbott, New Mexico State University; Kevin S. Branum, Nina Klypina, Tracy M. Sterling

**Shrub Restoration and the Use of Plateau Herbicide on Grazing Lands Affected by Cheatgrass Invasion** Suzanne M. Neal, Northern Arizona University; Carolyn Sieg, Catherine Gehring

**Patterns of Bluegrass Invasion into Fescue Monocultures Under Field Conditions** Steven C. Tannas, University of Alberta, Canada; Edward W. Bork, Walter D. Willms

**Is Prescribed Fire a Solution to Control Invasive Grasses in Chihuahua Grasslands?** Carlos Ortega-Ochoa, Universidad Autonoma de Chihuahua, Mexico; Rodrigo Miranda-Baeza, Alberto Rico-Diaz, Ramon Sandoval-Reyes, Rey Quintana-Martinez, Otilia Rivero-Hernandez, et al.

**Natal Grass Monitoring in Chihuahua Grasslands** Carlos Ortega-Ochoa, Universidad Autonoma de Chihuahua, Mexico; Fernando Hernández-Peralta, Manuel Villalobos-Carrera, Eduardo Varela-Guadarrama, et al.

**Status Report on the "Wildfires and Invasive Plants in American Deserts" Symposium and Workshop** Mike Pellant, BLM; Matt Brooks, Linda Coates-Markle, Bud Cribley, Nora DeVoe, Kurt Pregitzer, Sherm Swanson, John Tanaka, Mark Weltz

**Short-Term Effect of Six Herbicides on Sandberg Bluegrass (*Poa secunda*) Following Wildfire** Brad W. Schultz, University of Nevada Cooperative Extension; Earl Creech

**Herbicide Effectiveness on Adjacent Populations of Young (Seedling) and Mature Perennial Pepperweed (*Lepidium latifolium*)** Brad W. Schultz, University of Nevada Cooperative Extension

**The Response of Crested Wheatgrass (*Agropyron* spp) Seedlings to Six Herbicides** Brad W. Schultz, University of Nevada Cooperative Extension; E. Creech

**Assessing Invasion Strategies by Old World Bluestem, an Invasive C4 Grass** Karen R. Hickman, Oklahoma State University; Gail W.T. Wilson, Melinda M. Williamson

## Poster Session A: Vegetation Management and Restoration Practices

**Rates of Legume Decline Vary Among Forage Mixes in Central Alberta** Erin M. Mcleod, University of Alberta, Canada; Edward W. Bork, Jane R. King, Linda M. Hall

**Genetic and Phenotypic Analysis of Blue Grama [*Bouteloua gracilis* (Willd. Ex-Kunth) Lag. Ex-Steud.] Populations in Chihuahua Mexico** Carlos Morales-Nieto, INIFAP, Mexico; Luis Madrid-Pérez, Quintón Rascón-Cruz, Victor Aguirre Arzola, et al.

**The Influence of Plant Functional Group Removal on Succession in Wyoming Big Sagebrush Communities** Chad S. Boyd, USDA-ARS; Tony J. Svejcar

**Establishing Fourwing Saltbush (*Atriplex canescens*) by Transplanting in Arid Zones in Northern Mexico** Jesus Enrique Cantu Brito, UAAAN UI, Mexico

**The Effect of Discing to Reduce Cheatgrass Densities Following Wildfires** Charlie D. Clements, USDA-ARS; Dan Harmon, James Young

**First-Year Hydrologic Response of Mechanical Mastication in Juniper Woodland in Utah** Nathan L. Cline, Brigham Young University; Bruce Roundy, Fredrick Pierson, Patrick Kormos, et al.

**Hydrologic Response of Mechanical Mastication in Juniper Woodland in Utah** Nathan L. Cline, Brigham Young University; Bruce A. Roundy, Fredrick B. Pierson, C. Jason Williams

**Glacier Creek Wetland Restoration in Rocky Mountain National Park** Scott Esser, National Park Service; Jeff Maugans, Lonnie Pilkington, Lindsay Springer, Laura Wheatley, Ben Bobowski

**Native Prairie Restoration in the Lower Rio Grande Valley of Texas** Anthony D. Falk, Texas A&M-Kingsville; Paula Maywald, Forrest Smith, Stephen Benn, Alfonso Ortega-Santos

**Effects of 10 Years of Fire and Climate Variability on Perennial Grass Cover in Shortgrass Steppe of the Southern Great Plains** Paulette L. Ford, USDA Forest Service

**Fire and Strategic Grazing Tools to Restore Rough Fescue Native Range in Alberta, Canada** Kevin A. France, Sustainable Resource Development, Canada; Callum Sears

**Fire Fuel Load Effects on Heat Dosage and Perennial Plant Response** Kimberly F. Haile, USDA-ARS; Lance T. Vermeire

**Effects of Biosolids Application on Establishment of Native, Warm-Season Grasses in Abandoned Fields of Chihuahua, Mexico** Pedro Jurado, INIFAP, Mexico; Mario Royo, Carlos Morales, Ruben Saucedo, Alicia Melgoza

**Establishment of Fourwing Saltbush Ecotypes in Northern Mexico's Oak-Bunchgrass Rangelands** Pedro Jurado, INIFAP, Mexico; Ruben Saucedo-Teran, Jose Badillo-Almaraz, Hector Rubio-Arias, Pedro Jurado-Guerra

**Promoting the Re-Establishment of Herbaceous Native Plants on Mixed Brush Plant Communities With Roller Chopping** Felix A. Ayala, Texas A&M University-Kingsville; J. Alfonso Ortega-S., Timothy E. Fulbright, G. Allen Rasmussen

**Analysis of the Morphological Variability in Populations of Green Sprangletop [*Leptochloa dubia* (Kunth) Nees] to Use in Rangeland Restoration** Carlos Morales-Nieto, INIFAP, Mexico; Alicia Melgoza, Pedro Jurado, Martin Martinez, Otilia Rivero

**Effects of Different Management Practices on Soil Seed Bank Composition in a Mixed-Grass Prairie of the Northern Great Plains** Lan Xu, South Dakota State University; Brent Turnipseed, Roger Gates, Patricia Johnson, Nels Troelstrup

**Grass, Forb and Shrub Response on Four Prescribed Burns in N.E. California** Joseph A. Wagner, BLM

**Patch-Burn Grazing in the Bluestem Flint Hills and the Central States** Cheryl K. Simmons, USDA-NRCS; Reggie L. Blackwell, Marva L. Weigelt, Jane B. Koger

**Forage Importance of Trees and Shrubs in Goat Production Systems in Northeast Durango, Mexico** Celso Valencia-Castro, Universidad Juárez del Estado de Durango, Mexico; Jesús J. Quiñones-Vera, Edmundo Castellanos-Pérez, Gerardo Jiménez-González

**Predicting Herbage Mass in Irrigated Orchardgrass (*Dactylis glomerata* L.) Pastures** Glenn E. Shewmaker, University of Idaho; Laura K. Hooper, Thomas Griggs

**The Murphy Complex Wildfire Report on Livestock Grazing, Vegetation Type, and Fire Behavior** Mike Pellant, BLM; Karen Launchbaugh, Matt Brooks, Jay Davison, Steve Bunting

**Kochia and Non-Natives for Restoration, Good or Bad?** Richard D. Madril, BLM; Kim Anderson

**Native Woody Species Regeneration and Establishment With Narrow Permanent Riparian Enclosures and No Cattle Grazing** Elayne M. Hovde, NRCS

**Cost Effectiveness of Fuel Break Treatments in Cheatgrass-Dominated Landscapes** Christopher A. Call, Utah State University; Joel M. Diamond, Nicole McCoy, Nora Devoe

**Response of Soil Microbial Communities to Prescribed Fire in a Semi-Arid Grassland** Rosemary L. Pendleton, US Forest Service; Carlton White, Martina Stursova, Robert Sinsabaugh



**Effect of Fire Season and Spring Grazing on Soil Seedbank in the Northern Great Plains** Jennifer M. Muscha, USDA-ARS; Lance T. Vermeire

**Effect of Prescribed Fire on Standing Crop Production in Halophilous Grassland of Durango, Mexico** Jesús Quiñones-Vera, Universidad Juárez Del Estado De Durango, Mexico; Celso M. Valencia-Castro, Edmundo Castellanos-Perez, Olvera Sanchez-Olvera, et al.

**Effects of Seeding Rate and Season of Seeding on Establishment of Ten Native Grasses in the Rio Grande Plains of Texas** Forrest S. Smith, Texas A&M University-Kingsville; William R. Ocumpaugh, Paula D. Maywald, Jim L. Mutz

## Poster Session A: Rangeland Cup

Posters to be submitted.

---

**Tuesday, February 10, 2009, 8:00 AM - 12:00 PM**

### Technical Session: Vegetation Management and Restoration I

**An Integrative Approach for Ecological Restoration in Rangelands of the Burgos Basin, Northeast Mexico** Mario G. Manzano, Tecnológico De Monterrey-ITESM, Mexico

**Tree Shearing to Control Douglas-Fir Encroachment on Foothill Grassland** Cindy M. Selensky, Montana State University; Jeffrey Mosley, Brent Roeder, Tracy Brewer, Rachel Frost

**Establishing Switchgrass on the Coastal Prairie of Louisiana: A Demonstration Project** Chris A. Ebel, USDA-NRCS; Cleve Hoffpauir  
**After Invasion: Genetic and Phenotypic Variation of Remnant Natives in Greenhouse Production** Karin E. Bergum, University of Wyoming; Ann L. Hild, Brian A. Mealar

**Retaining Evolutionary Potential in Restored Plant Populations** Erin K. Espeland, USDA-ARS NPARL

**Vegetation Following Chemical Control of Canada Thistle: Native Recovery or Secondary Invasion?** Amy J. Symstad, US Geological Survey

**Methods of Restoration and Improvement of Rangelands in Uzbekistan** Tolib Mukimov, Uzbek Research Institute of Karakul Sheep Breeding and Desert Ecology, Uzbekistan; T. Mukimov, S. Yusupov, D. Johnson

**Vegetation Management in Greasewood Bottomlands** Matthew M. Church, University of Wyoming; Mary I. Williams, Ann Hild, Ginger Paige

---

**Tuesday, February 10, 2009, 8:00 AM - 12:00 PM**

### Technical Session: Grazing I

**Effects of Irrigation and Grazing Systems on Steer Performance and Plant Response in an Old World Bluestem Pasture** Gerardo Bezanilla, Universidad Autonoma De Chihuahua, Mexico; Carlos Villalobos

**Optimal Protein Feeding of Karakul Sheep in Premountain Wildlands of Uzbekistan** Erach Mamedov, Uzbek Research Institute of Karakul Sheep and Ecology of Deserts, Uzbekistan

**Perennial Forage Kochia for Improved Winter Grazing** Linden K. Greenhalgh, Utah State University Cooperative Extension; Kenneth C. Olson, Dale R. ZoBell, Blair L. Waldron, Alicia Moulton, Burke Davenport

**Repeatable Environments: Understanding the Role of Traditional Public Lands Grazing Practice in Relation to Wolf-Livestock Conflicts in the Rocky Mountains** Timothy Kaminski, Mountain Livestock Cooperative; C. Mamo, S. Dewey

**Cattle Habitat Selection and Associated Effects on Deciduous Tree Regeneration in Alberta** Jillian Kaufmann, University of Alberta, Canada; Edward Bork, Mike Alexander

**Effect of Defoliation Patterns and Developmental Morphology on Regrowth Rates, Forage Yield, and Quality in Ww-B.Dahl [*Bothriochloa bladhii* (Retz) S. T. Blake] at Three Growth Stages**

Carlos Villalobos, Texas Tech University; Jose Francisco Villanueva, Carlton M. Britton, Miguel Luna-Luna

**Grazing Management Effects on Soil Aggregate Size Distribution and Stability in the Missouri Coteau Region** Guojie Wang, North Dakota State University; Kevin Sedivec, Paul Nyren, Anne Nyren

**Grazing Public Lands With Intensive Recreation: Opportunities and Challenges** Sheila J. Barry, University of California Cooperative Extension

---

**Tuesday, February 10, 2009, 8:00 AM - 12:00 PM**

### Symposium: Solutions to Locoweed Poisoning in New Mexico and the Western US: Collaborative Research of New Mexico State University and USDA/ARS Poisonous Plant Lab

This symposium will highlight accomplishments through collaborative research to solve locoweed poisoning problems in New Mexico and the western states.

**The Magnitude of Locoweed Poisoning in New Mexico and the Collaborative Research Between New Mexico State University and the USDA/ARS Poison Plant Lab** David Graham, New Mexico State University

**Genetics of the Fungal Endophytes of Locoweed** Rebecca Creamer, New Mexico State University; Deana Baucom, Marie Romero, Robert Belfon

**Swainsonine Distribution in Locoweed Species, Plant Parts and the Endophyte Transmission to Progeny** Daniel Cook, USDA-ARS; Dale Gardner, James Pfister, Michael Ralphs, Kevin D. Welch, et al.

**Animal Susceptibility, Toxicity and Comparative Pathology of Locoweed Poisoning in Livestock and Wildlife** Bryan L. Stegelmeier, USDA-ARS; T. Zane Davis, Kevin Welch, Benedict T. Green, Dale R. Gardner, Stephen T. Lee

**Development of a Biomarker for Locoweed Poisoning** Kevin Welch, USDA-ARS; Bryan Stegelmeier, Kip Panter, Michael Ralphs, Dale Gardner, Daniel Cook

**Effect of Locoweed (*Oxytropis sericea*) on Reproduction and Maternal and Neonate Behavior in Sheep** James A. Pfister, USDA-ARS; Kip Panter, Ben Green, Daniel Cook, Kevin D. Welch, et al.

**Do Animal-to-Animal Variations in Locoweed Ingestion Patterns Offer Opportunities to Reduce Intoxication Rates of Native Yearling Cattle?** Andres F. Cibils, New Mexico State University; Kyle T. Jackson, Jacob A. Martin, J. David Graham, Dale R. Gardner, et al.

**Grazing Management Recommendations to Reduce Risk of Locoweed Poisoning** Michael H. Ralphs, USDA-ARS; David Graham, James A. Pfister, Dale R. Gardner

**Managing Woolly Locoweed (*Astragalus mollissimus*) Toxicity of Grazing Beef Cattle in Northeastern New Mexico** Manny Encinias, New Mexico State University; D. Calderon-Mendoza, F. Loya, C. Murdock, D. Graham, M.H. Ralphs

**Herbicide Control of Locoweeds** Kirk McDaniel, New Mexico State University

**Role of Native Insects in the Biological Control of Locoweed** David C. Thompson, New Mexico State University; Kevin T. Gardner

**Discussion and Future Research Needs**

---

**Tuesday, February 10, 2009, 8:00 AM - 12:00 PM**

### Symposium: Rangeland Hydrology and Erosion Technology Advancements

**Overview of Current and Future Technologies in Rangeland Hydrology** Mark A. Weltz, Nevada Chapter

**Hydrologic Effects of Fire in Sagebrush Plant Communities: Implications for Rangeland Hydrology and Erosion Modeling** Frederick B. Pierson, USDA-ARS; Peter R. Robichaud, Corey, A. Moffet, Kenneth E. Spaeth, C. Jason Williams

**Rangeland Hydrology and Erosion Model** Mark A. Nearing, USDA-ARS; Fred Pierson, Mark Weltz, Kenneth Spaeth, H. Wei

**New Technologies for Modeling Fire and Disturbed Conditions in Forest and Rangeland** William J. Elliot, USDA Forest Service; Peter Robichaud, Fred Pierson, Corey Moffett

**Rangeland Hydrology and Erosion Modeling: Status and Challenges in Tropical Rangelands** James P. Dobrowolski, USDA-CSREES; Thomas L. Thurow

**RAGWA: Rangeland Automated Geospatial Watershed Assessment Tool** D.P. Guertin, University of Arizona; D.C. Goodrich, G. Paige, M. Nearing, S.N. Miller, J. Stone, G. Ruyle

**Dominant Erosion Processes Associated with a Grassland State and Transition Model in Southeastern Arizona** Jeffry J. Stone, USDA-ARS-SWRC; Jared Buono, Ginger Paige

**Concentrated Flow Experiments on Burned and Unburned Sagebrush Communities: Applications for the Rangeland Hydrology and Erosion Model** Corey A. Moffet, USDA-ARS; Fredrick B. Pierson, Peter R. Robichaud

**Effect of Plant Species Composition on Rangeland Hydrology and Erosion** Kenneth E. Spaeth, USDA-NRCS

**Improving Rangeland Hydrology and Erosion Simulation Models: Coarse Particle Movement in Channels and Sediment Yield in Small Watersheds** Mary H. Nichols, USDA-ARS

**Multiscale Variability of Soil Aggregate Stability: Implications for Rangeland Hydrology and Erosion** Michael Duniway, USDA-ARS; Jeffrey E. Herrick, Kenneth E. Spaeth, Nichole Barger, et al.

**Rangeland Hydrology and Erosion Modeling in CEAP and NRI Activities** Leonard W. Jolley, USDA NRCS; J. Jeff Goebel, Mariano Hernandez

---

**Tuesday, February 10, 2009, 8:00 AM – 5:00 PM**

### **Symposium: Rangeland Animal Behavior: Integration of Ethology and GPS/GIS/RS Technologies**

New and evolving technologies present great opportunities for livestock producers and other rangeland professionals to investigate animal behavior within complex ecological systems at scales and intensities never before possible. Speakers will describe the evolution and integration of these spatial technologies and how database and analytical tools can be used to fully exploit the volume of data these technologies produce. A number of technological applications will also be described.

**Opening Remarks Morning Session** Patrick Clark, USDA-ARS

**Beyond Collarin' and Follerin': Studying Ungulate/ Carnivore Interactions** Craig G. White, Idaho Department of Fish and Game; George Pauley, Nathan Borg, Mark Hurley, Pete Zagar

**Cutting-Edge Technologies: GPS/Satellite Communications-Based Tracking System** Patrick E. Clark, USDA-ARS; David F. Spencer, Douglas E. Johnson, Fredrick B. Pierson

**A Time-Step Nonlinear Model of Cattle Site Preference in Northeastern Oregon and Western Idaho** M.D. Johnson, University of California; K.D. Wilson, P.E. Clark, L.L. Larson, A.L. Woertz, et al.

**Effect of Lunar Phase on Summer Activity Budgets of Rocky Mountain Elk (*Cervus elaphus nelsonii*)** Gail J. Woodside, Oregon State University; Douglas Johnson, Patrick Clark, David Ganskopp, Martin Vavra, Brian Dick, Mitchel Wilkinson

**Utilizing Resource Selection Modeling in Rangeland Ecology** Kenric J. Walburger, University of Saskatchewan, Canada; Martin Vavra, Timothy DelCurto

**Use of GPS and GIS Technologies to Develop and Evaluate New Approaches to Manipulate Cattle Distribution** Derek W. Bailey, New Mexico State University

**Opening Remarks Afternoon Session** Douglas E. Johnson, Oregon State University

**The Starkey Project: Long-Term Studies of Elk, Deer, and Cattle** Martin Vavra, USFS; Michael J. Wisdom, Mary M. Rowland

**Intrinsic Movement Patterns of Grazing Rocky Mountain Elk (*Cervus elaphus nelsonii*) and Beef Cattle (*Bos taurus*)** M.D. Johnson, University of California/Santa Barbara; P.E. Clark, D.G. Ganskopp, G.J. Woodside, M. Vavra, M. Louhaichi, D.E. Johnson

**Distribution and Interaction of White-Tailed Deer and Cattle in South Texas Rangeland** Susan M. Cooper, Texas Agrilife Research; Humberto L. Perotto-Baldivieso, M. Keith Owens

**Spatial Spread of a Cattle Herd as a Function of Period of Day, Season and Activity in a Semi-Arid Rangeland in South Texas, USA** Christopher E. Cheleuitte-Nieves, Texas A&M University; Humberto Perotto-Baldivieso, X. Ben Wu, Susan Cooper

**Pre and Post-Burn Cattle Distribution Patterns: Sagebrush Steppe** David C. Ganskopp, USDA-ARS; Dave Bohnert

**Influence of Weather and Animal Related Factors on Grazing Distribution of Livestock** Andres Cibils, New Mexico State University; Christina Rubio, Robert Wesley, Mark K. Petersen, Ed L. Fredrickson, et al.

**Foraging Activity and Movements of GPS-Collared Cattle, Elk, Bison and Deer in the Aspen Parkland of Alberta, Canada** Patrick O. Jones, University of Alberta, Canada; Philip DeWitt, Evelyn Merrill

---

**Tuesday, February 10, 2009, 8:00 AM - 5:00 PM**

### **Symposium: Ecology and Management of Invasive Annual Grasses in the West: Current State of Knowledge and Future Directions**

Major advances in understanding the ecology and management of Mediterranean annual grasses have occurred during the past decade that may be instrumental in their management. This symposium brings together state-of-the-art research, management and restoration programs addressing annual grass invasion in the western United States. This synthesis will detail the current state of knowledge of annual grass ecology and management, new management and restoration approaches to combating the spread of these invaders, and identify critical research gaps that need to be filled. This symposium is centered on ecological principles of Mediterranean annual grass management, and includes a wide variety of research and management programs addressing annual grass invaded rangeland.

**Invasion! Immigration and Spread of *Bromus tectorum* Genotypes Across North America: Allozyme and Historical Evidence** Richard N. Mack, Washington State University

**Effects of Rainfall, Soil and Livestock Grazing on Dominance of California Rangeland by an Exotic Annual Bromus Species** Carla M. D'Antonio, University of California

**Ranchers' Perspectives on Invasive Annual Grass Management in Sagebrush Steppe Rangelands** Dustin D. Johnson, Oregon State University; Kirk Davies, Peter Schreder, Anna-Marie Chamberlain

**Social, Political and Practical Challenges of Managing Annual Grass-Dominated Landscapes** Tyler J. Staggs, BLM

**Linking Traits of Invasive Annual Grasses to Degradation of Ecological Processes** Thomas A. Monaco, USDA-ARS

**Are We Overlooking the Value of Remnant Native Plants in Highly Invaded Communities?** Elizabeth A. Leger, University of Nevada

**Soil Nitrogen and Annual Grass Invasion: Meta-Analysis, Mechanisms and Management Options** Jeremy J. James, USDA-ARS

**Soil Water Availability and Invasibility of Great Basin Big Sagebrush Communities to Cheatgrass** Bruce A. Roundy, Brigham Young University; Alison Whittaker, Jeanne C. Chambers

**Impacts of Cheatgrass in the Snake River Birds of Prey National Conservation Area** John C. Sullivan, BLM

**Ecological and Economical Impacts of Management Options for Medusahead Control** Theresa A. Becchetti, UC Cooperative Extension; Stephanie Larson-Praplan, Jimin Zhang, Christine Dillard, C. Schriefer, et al.

**Soil Nitrogen Management and Invasion Resistance** Edward A. Vasquez, USDA-ARS; Roger Sheley, Tony Svejcar, Brenda Smith

**Growth Regulator Herbicides Reduce Invasive Annual Grass Seed Production** Matthew J. Rinella, USDA-ARS; Robert A. Masters

**Spatial Distribution and Scaling of Impacts of Invasive Grasses** Corey M. Cherr, University of California; Emilio A. Laca

**Toward Ecologically-Based Integrated Weed Management** Roger Sheley, USDA-ARS; E. Vasquez, B. Smith, T. Svejcar

**Management of Invasive Annual Grasses in the West: A Synthesis of Current State of Knowledge and Future Directions** Thomas A. Monaco, USDA-ARS

**Panel Discussion**

---

**Tuesday, February 10, 2009, 1:00 PM - 5:00 PM**

**Technical Session: Ecology II**

**Plant Community Response to the Interaction of Small-Scale and Large-Scale Disturbance in Mesic Mixed Prairie** Ryan F. Limb, Oklahoma State University; David M. Engle, Terrance G. Bidwell, Donald P. Althoff, Philip S. Gipson

**Grazing and Burning Effects on Plant Community Diversity and Heterogeneity in Fescue Prairie** Nadia Mori, University of Saskatchewan, Canada; Ken Walburger, Jim Romo

**Ecological Responses Following Harvest of Mesquite for Bioenergy Uses** James R. Ansley, Texas Agrilife Research; Mustafa Mirik, Roy Stanford

**Shrub Expansion in Northern Chihuahuan Desert Grasslands: Spatial Patterns of Transition and Biophysical Constraints** Daroc P. Goolsby, New Mexico State University; Brandon Bestelmeyer, Steve Archer

**Landscape Function Changes Along Lajane Piosphere** Eahsan Shahriari, Oklahoma State University; Michael W. Palmer, David Tongway, Mohammad Jafari, Vahid Habibi

**Initial Analysis of Native Bee Communities Present on Two Sagebrush Steppe Sites in Southern Idaho** Stephen P. Cook, University of Idaho; Sara Birch, Carrie Caselton Lowe

**Genetic Diversity Patterns and Adaptation of *Allium acuminatum* in the Great Basin** Richard C. Johnson, USDA-ARS; Babara Hellier

**Pyric-Herbivory and Patch Burning: What About Number and Size?** Brady W. Allred, Oklahoma State University; Ryan Limb, Sam Fuhlendorf, Bob Hamilton

**Survival of Eleven Alfalfa Populations in Semiarid Rangeland** Chris G. Misar, South Dakota State University; Lan Xu, Roger Gates, Arvid Boe, Patricia Johnson

---

**Tuesday, February 10, 2009, 1:00 PM - 5:00 PM**

**Technical Session: Vegetation Management and Restoration II**

**Use of Tebuthiuron to Restore Remnant Warm-Season Prairie Grasses in Degraded Grasslands** Robert A. Masters, Dow AgroSciences; Byron B. Sleugh, Walter H. Schacht

**Use of Aminopyralid in Habitat Restoration Projects** Vanelle Peterson, Dow AgroSciences; Byron Sleugh, Dean Gaiser, Jerry Benson, Mike Finch

**Wet Thermal Accumulation Modeling of Field Germination of Several Rangeland Species** Jennifer K. Coleman, Brigham Young University; Bruce A. Roundy, Brad Jessop, April Hulet

**Caucasian Bluestem Control Using Glyphosate and Imazapyr** Walter H. Fick, Kansas State University

**Investigation into Seed Collection Practices and Shrub Manipulations to Improve Seed Yield in Wildland Stands of Bitterbrush (*Purshia tridentata*)** Roberts F. Leland, Buchanan Consultants, Ltd.; Val Jo Anderson

**Soil CO<sub>2</sub> Emissions in Masticated Woodlands of *Juniperus osteosperma*** Kert Young, Brigham Young University; Bruce Roundy, Richard Terry

---

**Tuesday, February 10, 2009, 1:00 PM - 5:00 PM**

**Technical Session: Grazing II**

**Comparison of Active and Historic Livestock Grazed Sites on the Colorado Plateau** Shannon M. Moore, Utah State University; Steven Bekedam, Ben Baldwin

**Relationship Between Forage Allowance and Grazing Efficiency in the Great Plains: Implications for Managing Rangelands for Both Livestock Production and Desired Ecosystem Goods and Services** Alexander Smart, South Dakota State University; Justin Demer, Barry Dunn, Eric Mousel, Kevin Sedivec, Keith Harmony, J. Volesky et al.

**Potential for Amendments to Improve In-Vitro Fermentation of Diets Containing Honey Mesquite** Barbara Witmore, New Mexico State University; Derek Bailey, Mark Petersen

**Comparison of Stocker Calf Placement on Native Rangeland vs. Direct Feedlot Finishing** Keith R. Harmony, Kansas State University; John R. Jaeger

**Diet Quality and Composition of Cattle (*Bos spp*) and Elk (*Cervus elaphus*) Grazing Pinyon-Juniper Rangeland in Central Arizona** Douglas R. Tolleson, The University of Arizona; Larry Howery, Lacy Halstead, George Ruyle, David Schafer, John Kava, K. Williams, et al.

**Nutritional Quality and Yield of Aspen Suckers Under Simulated Browsing** Koketso Tshireletso, Botswana College of Agriculture; John C. Malechek, Dale L. Bartos

**Does Repeated Intensive Defoliation Influence Cool- and Warm-Season Plant Cover in Shortgrass Steppe and Northern Mixed-Grass Prairie?** Jordana J. LaFantasie, Fort Hays State University; Justin D. Demer, Stephen F. Enloe

**Influence of Supplemental Legumes that Contain Tannins and Saponins on Intake and Diet Digestibility in Sheep Fed Grasses that Contain Alkaloids** Jacob M. Owens, Utah State University; Frederick Provenza, Juan Villalba, Randy Wiedmeier

**There's More to Diet Selection than Protein and Energy: The Role of Secondary Compounds in Animal Grazing Behavior** Tiffany D. Lyman, Utah State University/BEHAVE; Fedrick D. Provenza, Juan J. Villalba, Randall D. Weidmeier

**Searching for the Holy Grail - Questions, Myths, Realities** Kevin Guinn, USDA-NRCS

---

**Tuesday, February 10, 2009, 1:00 PM - 5:00 PM**

**Symposium: Conservation Effects Assessment Project Rangeland Literature Synthesis: An Initial Report**

The Conservation Effects Assessment Project (CEAP) – Rangeland Literature Synthesis is a joint NRCS, ARS and CSREES project designed and initiated in 2003 to determine how conservation practices can best be designed and implemented to protect and enhance environmental quality on rangelands. A data-based assessment will provide the foundation for evaluating the benefits of existing conservation practices and determining whether or not current practices require modification in either design or implementation to enhance their effectiveness in future programs. The conclusions of nine research teams, each addressing a unique conservation system, will be highlighted in this series of presentations.

**Rangeland CEAP Literature Synthesis: Objectives and Goals** Leonard W. Jolley, USDA NRCS

### **Assessment of Prescribed Grazing as a Conservation Practice**

David D. Briske, Texas A&M University-College Station; Justin D. Derner, Daniel G. Milchunas, Ken W. Tate

### **Brush Management and Conservation: New Perspectives on an Old Problem**

Steven R. Archer, University of Arizona; Kirk W. Davies, Timothy E. Fulbright, Kirk McDaniel, Bradford P. Wilcox

### **Assessment of Prescribed Fire as a Conservation Practice**

Samuel D. Fuhlendorf, Oklahoma State University; David M. Engle, Ryan Limb, Rick Miller

### **Assessment of Range Planting as a Conservation Practice**

Stuart P. Hardegree, USDA-ARS; Bruce A. Roundy, Nancy L. Shaw, Corey A. Moffett, Thomas A. Monaco, Thomas A. Jones, Edward F. Redente

### **Assessment of Rangeland Practices to Enhance Wildlife**

Paul R. Krausman, University of Montana; Vernon C. Bleich, Bill Block, David Naugle, Mark C. Wallace

### **Invasive Plant Management**

Roger L. Sheley, USDA-ARS; Dana Blumenthal, Joe DiTomaso, Matthew Rinella

### **Evaluating the Influence of Riparian Management Practices on Ecosystem Services**

Melvin R. George, UC Davis; Chad Boyd, Randall Jackson, Ken Tate

### **Assessment of the Landscape Aspects of Conservation Practices**

Ben X. Wu, Texas A&M; Brandon Bestelmeyer, Joel Brown, Sam Fuhlendorf

### **Assessment of the Economic and Social Aspects of Conservation Practices**

John A. Tanaka, Oregon State University; Mark W. Brunson, L. Allen Torell

### **Discussion**

Leonard W. Jolley, Moderator, USDA NRCS

---

**Tuesday, February 10, 2009, 1:00 PM - 5:00 PM**

### **Forum: Producers' Forum: Tales of Tradition and Innovation on the New Mexico Range**

Jim Thorpe, Bob Alexander, Dereck Bailey, Red Baker, Organizers

A representative remuda of New Mexico range managers profile their diverse outfits and range experience, with a concluding panel ruminating on selected 21st Century challenges.

Sid Goodloe, Carrizo Valley Ranch, Capitan

Bruce Davis, CS Ranch, Cimarron

Mike Hobbs, UU- Ranch, Cimarron

Alisa Ogden, Ogden Ranch and Farms, Carlsbad

John Romero, Sedillo Grazing Association, Pueblo of Laguna

Virgil Trujillo, Abiqui Genarizo, Abiqui

---

**Tuesday, February 10, 2009, 1:00 PM - 6:00 PM and  
Wednesday, February 11, 2009, 8:00 AM - 10:00AM**

### **Poster Session B: Economics, Sociology and Education**

#### **Systematically Improving Ecological Site Description Delivery in New Mexico**

John E. Tunberg, USDA-NRCS; Michael Carpinelli

#### **Ecological and Social Dimensions of Using Extreme Prescribed Fire to Restore Rangeland Ecosystems in Texas**

David Toledo, Texas A&M University; Urs P. Kreuter, William E. Grant, Dirac Twidwell

#### **Communication, Conflict and Science in Natural Resource Collaboration: A Case Study of an Inactive Collaborative Group**

Aleta K. Rudeen, Colorado State University; Maria Fernandez-Gimenez, Jessica Thompson, Paul Meiman

#### **Understanding the Impacts of the Memorial Middle School Ag Science Center on Youth Development**

Peter Skelton, New Mexico State University; Tom Dormody

#### **Managing Your Piece of Texas**

Mark E. Moseley, USDA-NRCS

#### **Public Use Hiking Trail at Smoky Valley Ranch**

Robert A. Nicholson, Kansas Trails Council; Mike Goodwin

#### **Meat Goats in South Dakota**

Irene E. Graves, South Dakota State University Cooperative Extension Service

**Ecology and Management of Grazing, an Online Course** Melvin R. George, University of California, Davis; Cody M. Sheehy, Stephanie Larson, John Harper, Neil McDougald, Roger Ingram

**Economic Impact of Toxic Plants on Livestock Production in Sonora, Mexico** Fernando A. Ibarra, INIFAP, Mexico; Moreno Salomon, Francisco G. Denogean Ballesteros, Martha H. Martin, Arturo Baldenegro

### **Creep Feeding and Early Weaning to Increase Calf Production and Ranch Profitability in Sonora, Mexico**

Fernando A. Ibarra, INIFAP, Mexico; Cyrene Y. Moreno, Jesus J. Fimbres, Salomon Moreno, Fransico G. Denogean, Fernanda L. Leon

**Is Early Weaning an Option to Increase Calf Production in Sonora, Mexico? - Ranchers Perceptions** Fernando A. Ibarra, INIFAP, Mexico; Fernanda L. Leon, Martha H. Martin, et al.

### **Satellite Technology Provides Livestock Producers with New Tools in Tracking Livestock Water Supplies**

Timothy L. Deboodt, Oregon State University Extension

### **Perceptions of Oklahoma Residents to Prescribed Fire**

Robert D. Elmore, Oklahoma State University; Brett Cooper, Terrence G. Bidwell, John R. Weir

**Rangelands: Changes to Improve the Quality and Performance of an Important SRM Journal** Joel R. Brown, Jornada Experimental Range; Ed Fredrickson

**Exploring the Relationship Between Community-Based Rangeland Management and Social-Ecological Resilience of Rural Mongolian Communities** Batkhisigh Baival, Colorado State University; Maria Fernandez-Gimenez

### **Transforming Conflict into Collaboration for Improved Stewardship of Public Rangelands**

Jennifer S. Arnold, University of Florida; G. Ruyle, G. Cheney, W. Crigler, D. Dressler, W. Jenkins et al.

### **University Science and a Third Party Role in Participatory Adaptive Management**

Adriana Sulak, UC Berkeley; Lynn Huntsinger

### **Poster Session B: Wildlife**

#### **Birds at Home on the Range: South Dakota Grassland Coalition Bird Watching Tour**

Kyle Schell, South Dakota State University;

Alexander Smart

**Evaluating the Extent of Coyote Depredation on Illinois Cattle and Sheep Operations** Justin W. Rickard, University of Missouri; B.R. Wiegand, K.R. Brooks

#### **The Dark Kangaroo Mouse: *Microdipodops megacephalus*, an Endemic Species to North America**

Ruth Walker, Brigham Young University; Ashley Haug, Loreen Woolstenhulme, Hal Black, Janene Auger, Steven Petersen

#### **Predicting Sage-Grouse Nesting Habitat at Multiple Spatial Scales in Southeastern Oregon**

Steven L. Petersen, Brigham Young University;

A. Yost, M. Gregg, R. Miller

#### **Evaluation of Diet Quality Predictions for Pronghorn Antelope (*Antilocapra americana*) Using Fecal NIRS Calibrations from Surrogate Species**

John A. Kava, The University of Arizona; Douglas R. Tolleson, Stephen D. Prince, Kris K. Banik, Larry R. Bright

#### **Velocity of Rocky Mountain Elk (*Cervus elaphus nelsonii*) Grazing a Northeast Oregon Pasture**

Gail J. Woodside, Oregon State University;

Douglass E. Johnson, Patrick E. Clark, David C. Ganskopp, et al.

### **Poster Session B: Grazing**

#### **Changes in Digestibility of Mature Forage with Addition of *Juniperus monosperma* or alpha-Pinene**

Christine Roof, New Mexico State University; Laura Dawdy, Shanna L. Lodge-Ivey, Mark Petersen

#### **Effect of *Juniperus monosperma* on Rumen Bacterial Diversity**

Laura Dawdy, New Mexico State University; Shanna L. Lodge-Ivey, Johnette Browne-Silva, Christine Roof, Mark Petersen

#### **How Holistic Planned Grazing Differs from Rotational Grazing**

Richard J. King, USDA-NRCS

**Gathering Cows Using Virtual Fencing Methodologies** Dean M. Anderson, USDA-ARS; Daniela Rus

**Are “As Excreted” Values Valid in Phosphorus Budgets for Grazing Beef Cattle?** Peter B. Deal, USDA-NRCS; John J. White, C. Randy Bateman

**Management Approaches to Accomplish Contemporary Livestock Production-Conservation Objectives in the Shortgrass Steppe** Justin D. Derner, USDA-ARS; David J. Augustine, Paul Stapp, William K. Lauenroth

**Long-Term Grazing Management Impacts on Plant Community Diversity in the Missouri Coteau Region** Guojie Wang, North Dakota State University; Kevin Sedivec, Paul Nyren, Anne Nyren

**Sheep Grazing Effects on Tall Forb Vegetation** Keith D. Klement, The Noble Foundation; Corey A. Moffet

**Monitoring Spring Use of Pinyon Juniper Woodlands by Cattle in Relation to Tree Canopy Cover** Andres F. Cibils, New Mexico State University; Jairo R. Mora Delgado, Christy M. Rubio, Raul H Peinetti, et al.

**Comparing Beef Cow Behavioral Syndromes to Measures of Productivity and Spatial Use of Rangelands** Andres F. Cibils, New Mexico State University; Robert L. Wesley, Emily R. Pollak, Shad H. Cox, J. Travis Mulliniks, Mark K. Petersen, Ed L. Fredrickson

**Livestock GPS Collar Technology Shows Seasonality of Livestock Grazing Behaviour on Complex Landscapes in the Montane Region of Southwestern Alberta** Michael J. Alexander, Alberta Sustainable Resource Development, Canada; Joann Skilnick, Craig DeMaere

**Integrating Livestock Grazing and Timber Production within Forested Lands of Alberta** Jillian Kaufmann, University of Alberta, Canada; Edward Bork, Mike Alexander

**Protein Supplement Placement Affects Utilization of Weeping Lovegrass by Cattle in Central Arizona** Christine A. Thiel, Tonto National Forest; John A. Kava, Doug Tolleson, Jim Sprinkle, Vanessa J. Prileson, William Barcus

**Botanical Composition of the Diet of Goats and Sheep in Native Caatinga, Ceara, Brazil** Antonia Edna Do Nascimento, Universidade Estadual do Ceará Fortaleza, Brazil; J. Maurice Shelton

**Seasonal Forage Production, Quality, and Livestock Utilization Dynamics in Meadows and Adjacent Aspen Stands** Kenneth W. Tate, UC Davis; Bobette E. Jones, David F. Lile

**DNA Fecal Analysis as a Tool for Cattle Diet Determination in Rangelands** Jose Alberto Perez-Amaro, Oregon State University; R. Mata-Gonzalez, O. Riera-Lizarazu

**Developing Pasture Growth Curves Using Hay Yield Trials and Climatic Data** Edward A. Petersen, USDA-NRCS

**Clinoptilolite as a Supplement to Reduce the Toxic Effects of High-Sulfate Water** Heather A. Richter, South Dakota State University; Kenneth Olson, Patricia Johnson, Cody Wright

**Patch-Grazing to Promote Structural Heterogeneity** Alexander Smart, South Dakota State University; Kyle Kelsey

**Effects of Prairie Dogs (*Cynomys ludovicianus*) and Cattle on Vegetation Composition and Disappearance in the Mixed-Grass Prairie** Melissa L. Staples, South Dakota State University; Patricia S. Johnson, Lan Xu, Alexander J. Smart

**Development of a Grazing Management Plan Balancing Biodiversity and Livestock Production for the Nature Conservancy Zumwalt Prairie Preserve** Angela D. Freeman, The Nature Conservancy; Jack D. Alexander III, Robert V. Taylor

**Poster Session B: Riparian Systems, Water, Climate Infiltration and Runoff Influenced by Grassland in the Median and Low Chihuahua Conchos River Watersheds** Oscar Viramontes-Olivas, Universidad Autonoma De Chihuahua, Mexico; Carmelo Pinedo-Alvarez, Victor Reyes-Gomez, Alfonso Sánchez-Muñoz, et al.

**Under-Canopy and Interspace Soil Moisture and Temperature of One-Seed Juniper Stands** Hector Ramirez, New Mexico State University; Sam Fernald, Andres Cibils

**Evapotranspiration in Western Juniper of Central Oregon** Candy Mollnau, Oregon State University; M. Newton, T. Stringham

**Scaling Snow Accumulation Patterns about Big Mountain Sagebrush** Molly E. Tedesche, Colorado State University; Steven R. Fassnacht, Paul Meiman

**Hydrologic Responses to Western Juniper Removal: The Camp Creek Paired Watershed Study** Timothy L. Deboodt, Oregon State University; M.P. Fisher, J.C. Buckhouse, J. Swanson

**Interpretation of Hummocks Relative to the Condition of Wetlands in Colorado** Andrew W. Don Carlos, Colorado State University; Alan Bright, Paul Meiman, Joe Brummer, David Cooper

**Wild Ungulate Herbivory of Willow Outside of National Parks is a Significant Management Consideration** Paul J. Meiman, Colorado State University; Mark S. Thorne, Quentin D. Skinner, Michael A. Smith, Jerrold L. Dodd

**Twenty Years of Channel Cross-Section Monitoring on Cedar Creek: Implications for Restoration and Monitoring** David F. Lile, UC Cooperative Extension; Kenneth W. Tate, Donald L. Lancaster

**Impact of Urbanization on Decomposition and Climate of Ephemeral Riparian Areas in South Central Arizona** Douglas M. Green, Arizona State University Polytechnic; Amy Huttmacher-Glancy, Jonathan Martin, Michael Crimmins, George Zaimes

**Adaptive Phenotypic Plasticity of *Pseudoroegneria spicata*: Response of Stomatal Density, Leaf Area and Biomass to Changes in Water Supply and Increased Temperature** Amber L. Greenall, Thompson Rivers University, Canada; Lauchlan H. Fraser, Cameron Carlyle, Roy Turkington, Cynthia Ross Friedman

**Impact of Oil and Gas Infrastructure Development in La Manga Canyon, NM** Shawn W. Salley, Jornada Experimental Range; Joel Brown

**Walter Diagrams of Oregon** Corinne M. Duncan, Oregon State University; Adele L. Woerz, Douglas E. Johnson

**Effects of Acequias and Groundwater Levels on Riparian Vegetation, Evapotranspiration, and Restoration** Ciara J. Cusack, New Mexico State University; A. Fernald, S. Guldan

**A Decision Support System for Assisting with Stocking Rate Decisions During and Following Drought** J. Lori Wiles, USDA-ARS; Gale Dunn, Arnold Norman, Jeff Printz

## Poster Session B: Assessment and Monitoring

**The Role of GIS in Natural Resource Management on Military Training Installations Across North Dakota** Carl E.A. Piper, Piper Land Resource Services, LLC; Kevin K. Sedivec, Dennis Whitted, Jim Bennington

**Floristic Quality of Native Northern Tallgrass Prairie Pastures in Eastern South Dakota** Matthew Nelson, South Dakota State University; Alexander Smart

**Rangeland Assessment Methods Guide: from the Field to Remote Sensing** Karen E. Colson, The Nature Conservancy; Heather Swartz, Jason Karl

**Landscape-Scale GIS Modeling of Utah Native Forb Populations** D. Bracken Davis, Brigham Young University; Steven L. Petersen

**A GIS Model for Mechanized Maneuver Training Capability on US Army Installations in Alaska** Erik C. Jackson, Center For Environmental Management of Military Lands

**Comparison of Pinyon and Juniper Cover and Density Measurements Obtained Through Remotely Sensed Imagery and Field Based Rangeland Studies** Matthew D. Madsen, Brigham Young University; Bracken D. Davis, Steven L. Petersen, Daniel L. Zvirzidin

**Rangeland Analysis by LANDSAT TM and IRS-1C Image Fusion in Chihuahua, Mexico** Carmelo Pinedo-Alvarez, Universidad Autónoma



de Chihuahua, Mexico; Nathalie Hernandez-Quiroz, Oscar Viramontes-Olivas, Alfonso Sánchez-Muñoz, Rey Quintana-Martínez

**Reflectance Measurements of Vegetation Communities in Arid Rangelands of New Mexico** Jerry C. Ritchie, USDA-ARS; Al Rango, Thomas J. Schmugge

**Drivers of Dissolved Oxygen in Rangeland Streams within the Upper Feather River Watershed** Holly George, UC Cooperative Extension; K.W. Tate, K.N. Schmidt

**Understanding Dissolved Oxygen in Streams Supporting High Elevation Irrigated Pastures** Holly George, UC; Ken Tate, Kristen Schmidt, Cheree Childers, Cindy Noble

**Climate Information for ESDS when Climate Stations Do Not Fit** Robert L. Gillaspay, USDA-NRCS; Ian Reid

**Almanac Proves an Accurate Tool for Simulating Plant Productivity in Sagebrush Steppe Sites in the Western United States** Mari-Vaughn V. Johnson, USDA-ARS; James R. Kiniry, Mark Weltz, Lucrecia Rodriguez, Kimberly Rollins

**Ecological Site Descriptions from Paper Copy (Hidden on a Shelf in the Office) to Web-Based Technology (Available Anytime)!** Justin D. Clary, USDA-NRCS

**Correlating Hyperthermic Soils and Ecological Sites in the Chihuahuan Desert of West Texas** Michael R. Margo, USDA-NRCS; Nelson A. Rolong

**Post Fire Monitoring Using Remote Sensing for the Southern Nevada Complex** Randy A. McKinley, ASRC Research and Technology Solutions; Karen Prentice, Neil Frakes, Matt Brooks, John R. Matchett

**Comparing Herbaceous Vegetation Sampling Methods on the Coconino National Forest, Arizona, USA** Edward Rhodes, Texas A&M University; Doug Tolleson, William Shaw, Eric Twombly, et al.

**Changes in Methodology for Monitoring Long-Term Vegetation Quadrats on the Jornada Experimental Range** Amalia L. Slaughter, USDA-ARS; Connie J. Maxwell, Valerie K. LaPlante, Caiti M. Steele

**Comparing Sagebrush Ecosystem Health Across Gradients of Habitat Fragmentation** Mae Smith, The Nature Conservancy; H. Copeland, I.D. Valencia, A. Pocewicz, B. Mealar, J. Kiesecker

**How to Document Soil Change Without Monitoring: A Multi-Scale Inventory Procedure for Dynamic Soil Properties, Soil Change, and Plant Community Dynamics** Arlene J. Tugel, USDA-NRCS; S.A. Wills, J.E. Herrick, P. Biggam

**Challenges in the Setup and Analysis of a Paired Watershed Study in Oregon's High Desert** Michael P. Fisher, Central Oregon Community College; Tim Deboodt, John C. Buckhouse, John Swanson

**BLM Vale District Ecological Site Inventory (ESI): Correlating Percent Foliar Cover with Digital Imagery** Charles D. Tackman, BLM; Michael B. Hale

**Cumulative Landscape Assessment and Restoration Planning Using the Landscape Toolbox** Don J. Major, BLM-Great Basin Restoration Initiative and The Nature Conservancy

**Rangeland Health and Monitoring, Basis for a Rangeland Management and Rehabilitation Plan: A Case Study, "El Uno" Ranch, Janos, Chihuahua** Mario H. Royo, INIFAP, Mexico; P. Jurado, J.S. Sierra, A. Melgoza, M. Martinez

**Effect of Season on Spatial Utilization by Cattle (*Bos spp*) on Rangeland in South Florida** Brandee N. Williams, USDA-NRCS; Mimi Williams

**Ecological Status of Protected and Unprotected Rangelands in Syria: Monitoring the Impact of Grazing on Rangeland Vegetation Dynamics in Three Climatological Zones** Adrienne Tastad, University of Saskatchewan, Canada; Mounir Louhaichi, Nabil Battikha, Amin Khatib, Rajender Parsad

**A Spatial Modeling Approach to Map Greater Sage-Grouse Habitat** Jerry Barker, Walsh Environmental Scientists and Engineers LLC; Jim Robb, Ryan Stage, Noreen Roster

**Techniques for Developing Plant Parameters for Simulating Native Plants with the Almanac Model** James R. Kiniry, USDA-ARS; Mari-Vaughn V. Johnson, Mark Weltz

**Monitoring Update of the Five Listed Plants and a Candidate Plant on the Arizona Strip 1986-2008** Lee E. Hughes, BLM-Arizona Strip District

**Geospatial Analysis of Aerial Photography to Identify Patterns of Grazing on Northern Great Plains Rangelands** Joshua M. Peterson, South Dakota State; Mindy Hubert, Amanda Gearhart, Kenneth C. Olson, Christopher Schauer, Patricia S. Johnson, D. Terrance Booth

## Poster Session B: Excellence in Range Management

A special section showcasing agency initiatives and producer stewardship recognized by SRM Sections.

---

Wednesday, February 11, 2009, 8:00 AM - 12:00 PM

### Technical Session: Undergraduate Papers

To be arranged.

---

Wednesday, February 11, 2009, 8:00 AM - 12:00 PM

### Technical Session: Range Plants

**Western and Searls Prairie Clover: North American Legumes for Rangeland Restoration in the Western US** Douglas A. Johnson, USDA-ARS; Kishor Bhattarai, B. Shaun Bushman, Kevin J. Connors

**Effects of Stratification, Warm Treatment Mechanical and Acid Scarification on the Emergence of Yellow-Flowered Alfalfa (*Medicago sativa* subsp. *Falcata*)** Diane M. Narem, Brookings, SD; Lan Xu, Roger Gates, Arvid Boe

**Environmental Effects on Concentrations of Plant Secondary Compounds: Finding a Healthy Balance** Andrea K. Clemensen, Utah State University; Fred Provenza

**Germination Rates of Hulled and Dehulled Ww-B.Dahl [*Bothriochloa bladhii* (Retz) S.T. Blake] Seed Exposed at Different Storage Times** Carlos Villalobos, Texas Tech University; Jose Francisco Villanueva, C.M. Britton, M. Luna-Luna

**Developmental Morphology of Ww-B.Dahl [*Bothriochloa bladhii* (Retz) S. T. Blake] Grass at Three Growth Stages** Jose Francisco Villanueva, INIFAP, Mexico; Carlos Villalobos, Carlton M. Britton, Miguel Luna-Luna

**Defoliation Patterns and Developmental Morphology on Regrowth Rates, Forage Yield, and Quality in Ww-B.Dahl [*Bothriochloa bladhii* (Retz) S.T. Blake] at Three Growth Stages** Carlos Villalobos, Texas Tech University; Jose Francisco Villanueva, Carlton M. Britton

---

Wednesday, February 11, 2009, 8:00 AM - 12:00 PM

### Technical Session: Weed Management with Herbivory

**If You Can't Beat Them, Eat Them! Easy Steps for Turning Cows Into Weed Managers** Kathy Voth, Livestock For Landscapes, LLC and Utah State University

**Consumption of Salt Cedar and Willow *Baccharis* by Boer-Cross Goats** Corey J. Owens, Angelo State University; Alfredo Munoz, Cody B. Scott

**Establishment of Broom Snakeweed Following Grazing for Biocontrol** Michael H. Ralphs, USDA-ARS Poisonous Plant Lab

**Recovery of Sulfur Cinquefoil Seed Ingested by Sheep and Goats** Rachel A. Frost, Montana State University; Jeffrey C. Mosley, Brent L. Roeder

**Effects of Goat Grazing on Yellow Starthistle** Brianna J. Goehring, University of Idaho

**Effect of Juniper Consumption on Meat Quality in Meat Goats**  
Corey J. Owens, Angelo State University; Matthew W. Menchaca, Cody B. Scott, Kirk Braden, Loree Branham

**Reducing Fuel Load of Key Cheatgrass [*Bromus tectorum* L] Dominated Range Sites by the Use of Livestock Grazing**  
Lee E. Schmelzer, University of Nevada Reno; B.L. Perryman, K. Conley, B. Bruce, T. Wuliji, K.L. Piper, S.R. Swanson, et al.

**Weed Management Using Goats: Effects on Water Infiltration Rate**  
Sandy Tartowski, USDA-ARS; Darren James

---

**Wednesday, February 11, 2009, 8:00 AM - 12:00 PM**  
**Technical Session: Climate and Climate Change**

**Climatic Regulation of Seasonal and Inter-Annual Variability in Net Ecosystem Exchange of CO<sub>2</sub> on Rangelands**  
H. Wayne Polley, USDA-ARS; W. Emmerich, James A. Bradford, Douglas A. Johnson, Tony Svejcar, Raymond Angell, Rebecca Phillips, Keirith Snyder, Jack A. Morgan

**Adapting Private Forest and Ranch Management to Mitigate Climate Change: Policies and Practices**  
Hannah Gosnell, Oregon State University; Susan Chamley

**Climate Change, Spring Snow, and the Future of Bluebunch Wheatgrass Populations**  
Peter B. Adler, Utah State University; Harmony J. Dalgleish

**Chihuahua Cattle Industry and a Decade of Drought: Economical and Ecological Implications**  
Carlos Ortega-Ochoa, Universidad Autonoma de Chihuahua, Mexico; Carlos Villalobos, Javier Martinez-Nevarez

**Pasture Type and Site Effects on Annual Nitrous Oxide Emission Rate**  
Vern S. Baron, Agriculture and Agri-Food Canada; R.L. Lemke, D.G. Young, J.A. Basarab, M.A. Naeth, A.D. Iwaasa

**Simulation of Drought and Grazing Effects on Forage Growth in the Northern Mixed Grass Zone of the USA Using the GPFarm-Range Model**  
Samuel Adiku, Colorado State University; Gale Dunn, Lajpat Ahuja, Jennifer Muscha, Allan Andales, Luis Garcia, et al.

**Responding to Climate Change, Range Management that Promotes Resilient Habitat**  
James C. Catlin, Wild Utah Project

**Testing the Effects of Climate Change on the Competitive Ability of Two Invasive Grassland Species: Spotted Knapweed and Yellow Toadflax**  
Amber L. Greenall, Thompson Rivers University, Canada; Lauchlan H. Fraser

---

**Wednesday, February 11, 2009, 8:00 AM - 12:00 PM**  
**Symposium: Development of Comprehensive Grazing Policy Guidelines: A Case for Adaptive Collaboration within the Rangeland Profession**

A comprehensive set of guidelines, representing multiple stake holder perspectives, is required to establish more inclusive and well informed grazing management recommendations and policies on rangelands. The objective of this symposium is to outline a framework for objective dialogue among various stakeholders to develop grazing policy guidelines that reflect multiple stakeholder perspectives to attain desired ecosystem services.

**Development of Comprehensive Grazing Policy Guidelines: Context and Objectives**  
David D. Briske, Texas A&M University

**The Respective Roles of Science and Management Within the Rangeland Profession**  
Nathan F. Sayre, UC Berkeley

**Experimental Evidence for Grazing System Research: What Does it Tell Us?**  
Justin D. Demer, USDA-ARS; David D. Briske, Daniel G. Milchunas, Ken W. Tate

**Experimental Evidence from Grazing System Research: What Are Its Limits?**  
Frederick Provenza, Utah State University

**A Management Perspective of Prescribed Grazing**  
Bob Budd, Lander, WY

**Grazing Management in the Context of Social and Ecological Systems**  
Lynn Huntsinger, UC Berkeley

**Strengthening Science-Management Linkages Through Collaborative Adaptive Management**  
Maria E. Fernandez-Gimenez, Colorado State University

---

**Wednesday, February 11, 2009, 8:00 AM - 12:00 PM**  
**Symposium: Wildlife Habitat Management on Rangelands Using USDA-NRCS Conservation Innovation Grants**

This symposium will present recent innovative examples of NRCS grant supported habitat management programs.

**A Community-based Approach to Applying Innovative Technologies for Monitoring and Restoring Sagebrush Habitats in Wyoming**  
Phil Gonzales, NRCS

**Ecological, Economic, and Social Dimensions of Using Summer Fire to Restore Ecosystems in the Southern Plains of the US**  
Urs Kreuter, Texas A&M University

**Community-supported Conservation of Grizzly Bears on Private Agricultural Lands, Montana**  
Seth Wilson, The Blackfoot Challenge, Montana

**Adoption of Oak Savannah Management on Private Lands in the Willamette Valley, Oregon**  
Drue De Berry, American Forest Foundation

**Promoting the Utilization of Prescribed Fire and Patch Burn Grazing as Acceptable Management Practices for Private Rangelands in the Prairie Coteau Region of South Dakota and Minnesota**  
Stan Boltz, NRCS

**Cooperative Sagebrush Steppe Restoration Initiative/ Implementation California**  
Thomas Esgate, Pit River Resource Conservation District, California

---

**Wednesday, February 11, 2009, 8:00 AM - 12:00 PM**  
**Forum: Linking Restoration of Rangeland Communities and Processes to Societal Outcomes: The Whys and the Hows**

Restoration of degraded rangelands has become a prominent topic in scientific journals, SRM meetings, and the focus of federal agency science and management. This forum will explore why it is critical for range and restoration scientists to link their research and management activities more directly with outcomes desired by society and offer examples of how that can be accomplished.

**Opening Remarks**  
Mark Neff, Arizona State University

**Changing the Model of Science and Society: The Need to Design Restoration to Address Societal Needs**  
Clark Miller, Arizona State University; Dan Sarewitz, Lori Hiding

**Prioritizing Rangeland Research and Restoration Based on Societal Outcomes**  
Jeffrey Herrick, USDA-ARS; Dennis Thompson, Brandon T. Bestelmeyer, Joel R. Brown, Kris M. Havstad

**Fire, Sagebrush, and People**  
David A. Pyke, USGS, Forest and Rangeland Ecosystem Science Center

**Post-Fire Restoration of Grazing Lands Invaded by Cheatgrass: Integrating Multiple Values**  
Ronald T. Sieg, Arizona Game and Fish Department; Carolyn Hull Sieg, Andi Rogers

**Restoring Rangelands, Restoring Trust: Factors Influencing Citizen Acceptance of Managed Change**  
Mark W. Brunson, Utah State University

**Panel and Audience Discussion**

**Summary**  
Lori Hiding, Arizona State University

---

**Thursday, February 12, 2009, 8:00 AM - 12:00 PM**  
**Technical Session: Invasive Species/Weed Management**

**Assessing Competitiveness of Alkali Sacaton Genotypes Exposed to Invasive Weeds** Franklin P. Bartlett, University of Wyoming; A.L. Hild, K.E. Bergum, B.A. Mealor, T. Smith

**Use of Imazapic to Control Cheatgrass and Improve Rangeland Seedlings** Christo Morris, USDA-ARS; Thomas A. Monaco, Craig W. Rigby

**Will Supplementation with Onions Reduce the Likelihood of Bitterweed Toxicity in Sheep?** Corey J. Owens, Angelo State University; C.J. Bundick, C.B. Scott, E.S. Campbell, R. Brantely

**Investigating Possible Mechanisms Regulating Bluegrass Abundance in Rough Fescue Grasslands** Steven C. Tannas, University of Alberta, Canada; Edward W. Bork, Walter D. Williams

**Effect of Aminopyralid on Non-Target Vegetation After Aerial Application** Robert A. Masters, Dow AgroSciences; Celestine Duncan, Andy Kulla, Mary Halstvedt

**Competitive and Complementary Forage Dynamics of Weed Control in Established Pastures Containing Mixed Swards** Erin M. McLeod, University of Alberta, Canada; Edward W. Bork, Jane R. King, Linda M. Hall

**Control of Invasive Malta and Yellow Starthistles in Central Arizona** John H. Brock, Arizona State University Polytechnic

**Forage Quality and Production of Lehmann Lovegrass (*Eragrostis lehmanniana*) in Invaded Rangelands of Central Chihuahua, Mexico** Alfonso Sanchez-Munoz, Universidad Autonoma De Chihuahua, Mexico; Karen R. Hickman, Daren Redfeam

**Growth in Mixtures of Bluebunch Wheatgrass, Cheatgrass, and Squarrose Knapweed Under Factorial Nitrogen and Phosphorus Additions to a Low-Nutrient Soil** Jeffrey Burnham, Utah State University; Eugene Schupp, Thomas Monaco

**Mapping Medusahead Coverage Across the California Central Valley Using LANDSAT 7 Imagery** Corey M. Cherr, University of California, Davis; Emilio A. Laca

**Patterns of Guineagrass Invasion** Dean W. Wiemers, Texas A&M University-Kingsville; Timothy E. Fulbright, Alfonso Ortega-Santos, William P. Kuvlesky, George A. Rasmussen, Richard R. Riddle

---

**Thursday, February 12, 2009, 8:00 AM - 12:00 PM**

**Technical Session: Wildlife I**

**Spatial and Temporal Habitat Characteristics Driving Greater Sage-Grouse (*Centrocercus urophasianus*) Habitat Use in Central Oregon** Mark T. Freese, Oregon State University; Richard F. Miller, Steven L. Petersen, Andrew C. Yost

**Trajectory of Avian Habitat Structure in a Grassland With Recent Reductions in Fire Return Interval and Stocking Rate** Sherry A. Leis, Missouri State University; David G. Peitz, Kevin M. James

**Effects of Supplemental Feeding and Density of White-Tailed Deer on the Spatial Distribution of Small Mammals** William A. Moseley, Caesar Kleberg Wildlife Research Institute; S.M. Cooper, D.G. Hewitt, T.E. Fulbright, C.A. DeYoung

**Ring-Necked Pheasant (*Phasianus colchicus*) Production and Nest Site Selection on Post-Contract Conservation Reserve Program Lands** Benjamin A. Geaumont, North Dakota State University; K.K. Sedivec, C.S. Schauer

**Waterfowl Production and Nest Site Selection on Post-Contract Conservation Reserve Program Lands in Southwest North Dakota** Benjamin A. Geaumont, North Dakota State University; C.S. Schauer, K.K. Sedivec

**Comparison of Two Nest Searching Techniques Used in Ring-Necked Pheasant Nesting Studies** Benjamin A. Geaumont, North Dakota State University; K.K. Sedivec, C.S. Schauer

---

**Thursday, February 12, 2009, 8:00 AM - 12:00 PM**  
**Technical Session: Economics, Sociology and Policy**

**Leopold, Stegner, and the Foundation of a New Agrarianism** Courtney White, The Quivira Coalition

**Exploring the Linkages Between Socio-Economic and Ecological Processes in Rangeland Landscapes** Rhonda K. Skaggs, New Mexico State University; Brandon Bestelmeyer

**Rangelands of Band-I-Amir and Ajar Valley, Bamian Province, Afghanistan** Donald J. Bedunah, University of Montana

**An Integrated Social, Economic and Ecologic Conceptual (ISEEC) Framework for Considering Rangeland Sustainability** William E. Fox, Texas A&M University; Urs P. Kreuter, Dan W. McCollum, John E. Mitchell, Louis E. Swanson

**Development of a Grazing Fee Formula for Utah Trust Lands: Analysis and Recommendations** Neil R. Rimbey, University of Idaho; Ron Torgerson, Scott Chamberlain, Kim Christy, E. Bruce Godfrey

**Measuring Total Sustainable Income from California Ranches: An Economic Analysis of Natural and Human Resources Management** Larry Forero, UC Cooperative Extension; Jose L. Oviedo, John M. Harper, William Frost, Lynn Huntsinger

**Historic Forage Productivity and Cost of Capital for Cow-Calf Ranches in California** Philip Brownsey, UC Berkeley; Barbara Allen-Diaz, Jose Luis Oviedo, Lynn Huntsinger, Amy Romanek

**Farmer's Perception about the Effect of Rangeland Management on Dairy Herd Health** A.L. Schmitt, University of Santa Catarina, Brazil; Alan Rizzoli, Giliane Basco, Rafael Knabem, Juan Pablo

**Cows, Bikes, Hikes and Kites: Minimizing Conflict Between Public Recreation and Grazing Livestock** Sheila J. Barry, University of California Cooperative Extension; David Amme

**Landowner Perceptions of Fire, Grazing, and Invasive Species in a Prairie Landscape Fragmented by Cropland and Trees** Elise Regen, Iowa State University; Lois Wright Morton, Dave Engle, James Miller

**Ranching Documentary** Cody Sheehy, UC-Davis; M.R. George

---

**Thursday, February 12, 2009, 8:00 AM - 12:00 PM**

**Technical Session: Assessment and Monitoring**

**Lessons From a Decade of Rangeland Monitoring in Washington State** Linda Hardesty, Washington State University; S. Canwell, W. Keller

**Wetland Condition Assessment Using the North Dakota Rapid Assessment Model and the Index of Plant Community Integrity** Edward S. Dekeyser, North Dakota State University; Christina L.M. Hargiss, Donald R. Kirby, Michael J. Ell

**Relationship of Ecological Site Plant Community Structure to Shrubsteppe Songbirds** Mary I. Williams, University of Wyoming; Ginger B. Paige, Ann L. Hild, Thomas L. Thurrow, Rachel Laubhan

**Developing a Framework and the Training Required to Expand Cooperative Permittee Monitoring in Nevada** Gary L. McCuin, University of Nevada Cooperative Extension; Brad Schultz, J. Kent McAdoo, Bill Dragt, Ben Bruce, Barry Perryman, Sherm Swanson

**Comparison of Ground and Aerial Survey Methods on the Grand River National Grasslands** Amanda L. Gearhart, North Dakota State University; D. Terrence Booth, Kevin K. Sedivec, Samuel E. Cox, et al.

**New and Improved: Montana's Ecological Site Classification System** Barbara Landgraf Gibbons, USDA-NRCS

**Inference Space vs. Sampling Requirements: A Simulation Study of Soil Properties on Rangeland Ecosites** Skye A. Wills, USDA-ARS; Jeffery E. Herrick, Arlene Tugel

**The Ecosite Picker: A Tool to Field Select Appropriate Ecological Sites During Range Inventory** Cici B. Brook, NRCS; Kate Peterson

---

**Thursday, February 12, 2009, 8:00 AM - 12:00 PM**

**Symposium: Rangeland Ecohydrology: Key Concepts and Application to State and Transition Model Development**

Why is rangeland vegetation always changing and how can we manage for the desired vegetation assemblages? The answers to these fundamental questions largely depend on the amount and distribution of water. This symposium will present our current understanding of feedbacks between rangeland vegetation, soils, and the water cycle.

**Describing Indicators of Rangeland Health: An International Approach to Characterizing Rangeland Ecohydrology** Jeffrey E. Herrick, USDA-ARS; B.T. Bestelmeyer, Fee Busby, Bolormaa Damdinsuren, Francisco Echavarría Cháirez, Guodong Han, et al. **Ecohydrology of Vegetation Conversion and Ecosystem Consequence** Travis E. Huxman, Ecology and Evolutionary Biology; Sujith Ravi

**Soil Moisture Response to Tree Thinning in Central New Mexico** Alexander Fernald, New Mexico State University; Ferhat Gokbulak, Hector Ramirez, Dawn VanLeeuwen

**Woody Plant Encroachment: Rainfall, Soil Moisture and Patterns of Plant Water Use** Keirith A. Snyder, USDA-ARS; Michael C. Duniway

**Grassland to Woodland Transitions: Linking Hydrology and Vegetation Dynamics** Samuel D. Fuhlendorf, Oklahoma State University; David Engle, Brad Wilcox, Rodney Will, Chris Zou

**Isotopic Records of Plant Water Use – Insights from Archaeological Maize and Columnar Cactus Spines** David G. Williams, University of Wyoming

**Potential Impacts of a Changing Climate on Plant Community Distribution in the Intermountain Western USA** Mark S. Seyfried, USDA-ARS; Dave Chandler, Anurag Nayak

**Multiple Ecosystem State Changes Since AD 1700 on a Semiarid Hillslope in New Mexico: Cascading Ecohydrological Transitions** Craig D. Allen, US Geological Survey

**On the Dynamics of Rangeland Management: Fixed Versus Adaptive Stocking** Susan Schwinning, Texas State University

**Changing Streamflow in the Edwards Plateau Region of Central Texas: The Role of Woody Plants and a Legacy of Overgrazing** Bradford P. Wilcox, Texas Section; Yun Huang

**The Spatial Pattern of Transition (Spot): Linking Pattern, Process, and Scale to State-And-Transition Models** Brandon T. Bestelmeyer, USDA-ARS; Darroc Goolsby, Steven R. Archer

---

## Thursday, February 12, 2009, 8:00 AM - 12:00 PM Symposium: Grazing Systems Research: Focusing on the Managers

Thirty years of experimental research has examined rotational grazing systems (RGS) from the perspective of plant and animal performance and found little impact on these attributes when compared to continuous grazing. However, many managers and advisors have substantial anecdotal evidence that supports the use of RGS as an important and effective management tool. This symposium will propose new organizing principles for research on RGS with emphasis on managerial, economic and herd-level variables in the context of case study and designed experiment research.

**Grazing Systems Research: Focusing on the Managers-Introduction** Joel R. Brown, USDA-NRCS; Kris M. Havstad

**The Importance of Rotational Grazing Systems in the Implementation of NRCS Conservation Policies and Programs** William Puckett, NRCS; Dennis W. Thompson

**Relevant Hypotheses and Statistical Approaches for Investigating Rotational Grazing in a Rangeland Context** Brien E. Norton, Utah State University

**Land Managers' Decisions about Grazing Systems: Understanding the Contexts of Change** Mark W. Brunson, Utah State University

**How Can We Test Management at the Ranch Scale?** John A. Tanaka, Oregon State University

**Management Effectiveness and the Measurement of Multiple Ecological Attributes at Broader Spatial Scales** Mark E. Miller, US Geological Survey

**Resources for Conducting Grazing Management Research** James P. Dobrowolski, USDA-CSREES

**Discussion and Feedback**

---

Thursday, February 12, 2009, 8:00 AM - 5:00 PM

## Forum: Riparian Ecological Sites: Grazing Management Processes and Strategies for Riparian-Wetland Areas

Many livestock grazing pastures include some riparian areas, and managing livestock in those areas is one of the most contentious issues facing many rangeland managers. Government technical guides are available for designing appropriate grazing strategies so that soil and vegetation aspects, water issues, and wildlife and livestock needs are addressed in a collaborative manner. Examples of the background knowledge and information necessary to develop grazing practices that will help protect the riparian area resource while maintaining the economic viability of the grazing enterprise will be presented in this symposium.

**Part I: Riparian Ecological Site Descriptions and State-and-Transition Models** Patti Novak, Moderator

**Ecological Site Descriptions: An Overview** Homer Sanchez, USDA-NRCS; Jeff Repp

**Physical Components of Riparian Ecosystems: Valley Types and Associated Stream Types** Janice W. Staats, USDA Forest Service

**Vegetation Associated With Functional Stream Types: Riparian Complex Concepts** Sarah E. Quistberg, Oregon State University; Tamzen K. Stringham

**Vegetation Succession and Geomorphic Thresholds** Tamzen K. Stringham, University of Nevada-Reno

**State-and-Transition Model Components for Riparian Ecosystems** Tamzen K. Stringham, University of Nevada-Reno

**Challenges in Developing Ecological Site Descriptions for Riparian Areas** Jack D. Alexander, Synergy Resource Solutions, Inc.; Kendra Moseley

**Part II: Grazing Management Processes and Strategies for Riparian-Wetland Areas** Ken Crane, Moderator

**Developing Riparian Management Objectives** Sherman R. Swanson, University of Nevada-Reno

**Strategies to Manage Livestock Grazing to Meet Riparian Objectives** Sandra K. Wyman, National Riparian Service Team

**Grazing Treatments** Jimmy Eisner

**Monitor and Evaluate Progress - Adaptive Management** Eric M. Peterson, Wyoming Cooperative Extension Service

---

Thursday, February 12, 2009, 1:00 PM - 3:20 PM

## Technical Session: Wildlife II

**Predicting Elk Feeding Site Selection in Foothill and Mountain Rangeland Habitat** Rachel A. Frost, Montana State University; Kelley K. Crane, Tracy K. Brewer, Jeffrey C. Mosley

**The Impacts of Deer Density and Supplemental Feeding on Vegetation** Eric D. Grahmann, Texas A&M University-Kingsville; Reagan T. Gage, Ryan L. Darr, Timothy E. Fulbright, David G. Hewitt, et al.

**Physiological Effects of the North Kaibab Winter Habitat on Mule Deer** Matthew W. Acton, Arizona State University; William H. Miller, Ann Steffler

**Active Vegetation Management for Sagebrush-Grass Community Resilience and Wildlife Diversity** J. Kent Mcadoo, University of Nevada Cooperative Extension; Brad Schultz, Sherman Swanson

**Songbird Response to Habitat Heterogeneity and Grazing at Grasslands National Park of Canada** Barbara I. Bleho, University of Manitoba, Canada; Nicola Koper

**Cattle Drive the Development of Wildlife Hotspots in an East African Rangeland** Kari E. Veblen, UC Davis and USGS

**Pastoral Land Use Both Attracts and Repulses Wildlife in the Serengeti-Mara Ecosystem, East Africa** Robin S. Reid, Colorado State University; Joseph Ogutu, N. Thompson Hobbs, Jeff Worden, Andrew Muchiru, Sandra Van Dijk, Dickson Kaelo, et al.

---

**Thursday, February 12, 2009, 1:00 PM - 3:20 PM**

**Technical Session: Remote Sensing and Technology**

**Monitoring Rangeland Health Indicators by Remote Sensing** Raymond E. Hunt, USDA-ARS; D. Terrance Booth

**Landscape Scale Change Detection of Aspen Woodlands in Central Idaho** Eva K. Strand, University of Idaho; Stephen C. Bunting, Mary Tess O'Sullivan

**Making Better Use of Remote Sensing for Designing Rangeland Field Studies: An Application of Object-Based Image Analysis** Jason W. Karl, Michigan State University; Brian A. Maurer

**Dual-Resolution Aerial Assessments of Pipeline Revegetation** D.T. Booth, USDA-ARS; Samuel E. Cox

**Modeling Potential Species Distributions in Rich County, Utah** Kathryn Peterson, Utah State University; R. Douglas Ramsey

**Estimating Annual Net Primary Productivity of Tallgrass Prairie (1989-2007) at Regional Scale Using Satellite Remotely Sensed Measurements** Kevin P. Price, Kansas State University; Nan An, John M. Blair

**Development of a Regional Scale Wind Power Site Blueprinting Tool** Julie L. Conley, The Nature Conservancy; Betsy Bloomfield, Brian Martin

---

**Thursday, February 12, 2009, 1:00 PM - 2:40 PM**

**Technical Session: Education**

**Merging Experience and Science for Innovation and Educational Outcomes** John Taylor, University of Queensland, Australia

**Exploring Preservice Teachers' Mental Models on the Environment** Christine Moseley, University of Texas San Antonio

**The Saskatchewan Prairie Conservation Action Plan (SK-PCAP) Stewardship Education Programs for Elementary School Audiences: A Fun and Games Approach to Learning** Karyn Scalise, Saskatchewan Prairie Conservation Action Plan, Canada

**Youth Experience Science at Science Days** Shannon Williams, University of Idaho Extension; Jeanne Withers, Arlene Wolfe

**The Development of Participative Methodology Responsible for 632 Grass Based Agroecologic Dairy Projects Planned and Implemented by Undergraduate Students on Rangelands of Santa Catarina, Brazil** Abdon Luiz Schmitt, Florianopolis, SC, Brazil; Fabiam Busnardo, Alden Nascimento, Joao Da Ros, Fernando Back, et al.

---

**Thursday, February 12, 2009, 1:00 PM - 5:00 PM**

**Symposium: Holistic Management: A Perspective on Merging Culture, Science and Innovation**

Forty years ago, Allan Savory and short duration grazing were introduced to North America through an article in SRM's *Rangeland* journal. Those original concepts have developed into a body of knowledge known as Holistic Management. This symposium will

provide an opportunity for sharing results and discussing the challenges faced in transitioning people to this management process and for scientists to quantify the results.

**25 Years of History with Holistic Management** Kirk Gadzia, Resource Management Services LLC

**Effect of Grazing Treatment on Soil Moisture in Semi-Arid Rangelands** Keith T. Weber, Idaho State University; Bhushan S. Gokhale

**Holistic Management and The New Ranch** Courtney White, The Quivira Coalition

**The Adaptation of Holistic Management on Carrizo Valley Ranch** Sid A. Goodloe, Capitan, NM

**Holistic Management Research** Frank Aragona, Agricultural Innovations

---

**Thursday, February 12, 2009, 1:00 PM - 5:00 PM**

**Symposium: Borderlands Watershed Management: A Collaborative Approach to Resource Management**

Natural resource management in the United States has long been accomplished at the scale of watersheds. Watersheds cross all political and social-economic boundaries. Protecting watershed health along the U.S. and México borders is of immense concern and key to solving resource and economic development problems. This symposium will address these border issues.

**Opening Remarks** Herman Garcia, USDA-NRCS

**Bi-National Borderlands Ecological Restoration Initiative** Rosendo Treviño III, USDA-NRCS; Ing. Jose Manuel Perez Cantu

**Renovation of Degraded Ecosystems in Northern Mexico** Jose Manuel Perez Cantu, Pronatura Noreste, AC, Mexico

**Partners in Plant Solutions: A Case Study in Collaborative Approaches to Resource Management** Forrest S. Smith, Texas A&M University-Kingsville; John Lloyd-Reilly, Paula Maywald

**Advances in Evaluation of Rangeland Health in Northern Mexico** Alicia Melgoza, Universidad de Chihuahua, Mexico; Mario H. Royo, Pedro Jurado, Carlos Ortega, Gerardo Bezanilla, Jose Quiñones

**Potential for Extending Major Land Resource Areas into Northern Mexico** Roy S. Mann, USDA-NRCS; Philip Heilmann, Jeffrey Stone

---

**Thursday, February 12, 2009, 1:00 PM - 5:00 PM**

**Symposium: Wildland Invasive Species Restoration**

Wildland invasives are an ever increasing threat to both our ecological and economic well being in the US. There are many strong, on-going cooperative efforts to restore our wildlands back to a native functioning condition. This symposium will showcase top projects being done around the west from caliche and mesquite restoration in New Mexico to wildfire restoration in Montana.

**Is Crested Wheatgrass Here to Stay? A Diversification Study of Crested Wheatgrass Stands in Utah** April Hulet, Brigham Young University; Bruce A. Roundy, Brad Jessop

**Restoring Land Health on a Landscape Level** Lu Burger, BLM; Don Ellsworth, Eddie Williams

**An Internet-Available System for Estimating Site-Specific Invasive Weed Impacts** Matthew J. Rinella, USDA-ARS

**Working with Conservation Districts on Fire Rehabilitation Efforts** Ray Beck, State of Montana

**Escalante River Watershed Restoration** Amber L. Hughes, BLM

# DANCE ENTERTAINMENT

## Simon Balkey and the Honky Tonk Crew

If you've ever wondered what Nashville recording acts did right before they entered the national market...here is your chance! **Simon Balkey** is in the midst of a transformation from local act to Nashville recording artist.

For the last seven years, Simon and six of his closest friends have been lighting up stage's in New Mexico, West Texas and Southern Colorado as the band *Wyld Country*. They plowed through the Southwest turning thousands of onlookers into fans [or as Simon says "friends"]. A decision to chase his dream of Nashville recording artist put Simon on a new track. Although extremely competent and capable, only half of the band *Wyld Country* was able to pursue the same dream. With full band support, Simon set out to complete the set of musicians to reach the national market.

A dream, hard work, and a lucky phone call have landed him in the middle of a recording project and some record label attention. *"After eight years of pursuing record label attention through entertainment lawyers, agents, demo submissions, and various producers.....a phone call to a fellow musician is what connected me with Nashville. The funny thing about it is that I didn't make the phone call. My drummer, helping me to replace his own position made the call. A few phone calls with his replacement and some forwarded emails landed me a publishing agreement and an invite to record a CD and pitch to some labels."*

**Simon Balkey** plans to make the transition from "cover band" to recording artist over the 2009 calendar year. "My goal is to create the kind of music that people love to listen to but can also dance to. I love the honky-tonk scene and don't think I want to ever stray completely away from it. Concerts are awesome but when I think country music...two steppin' comes right along with it. I have a great bunch of guys with me and I can't wait for everybody to see what they can do."

A little background on Simon's "**Honky Tonk Crew**".....

### **Sam Montoya (Bass-BG Voc)**

Experienced, talented, and degreed in Music Education. Sam has taught and put to use guitar, violin, and music theory. A man of many instruments including Guitar, Bass, Guitarron, Vihuela, and Cello among others. Sam has played with multiple bands including Mariachi, Tejano, and most recently Country with *Wyld Country*. This guy has played everything from a High School Graduation to the nationally televised 2<sup>nd</sup> Inaugural for Bill Clinton. Sam hails from Santa Fe, NM.

### **Joe Salas (Fiddle/Mandolin)**

Picked up fiddle at 10 years of age. Growing up it was nothing but the best classical training for this guy with of course honky tonkin' on the side as his dirty little secret. Through his time in the service and college Joe continued to play wherever and whenever he could to hone his skills as an entertainer. Joe ultimately found his way into a band finding much success and radio airplay as a part of the well received singles "One More Lonely Night" and "Lady for Me" in the late eighties. Joe since then has played with various symphonies including Midland-Odessa, Roswell, and the Southwest Symphony. Joe found his way back to his honky-tonk roots with the band *Wyld Country*. A true entertainer, Joe hails from Roswell, NM.

### **Roddy Gallegos (Piano/Guitar & BG Voc)**

At age fifteen Roddy decided he was meant to play music. Picking up a pawned guitar, he realized what better way to learn to play than make a band. Putting in thousands of hours of stage time over the next several years Roddy many times took the position of lead vocalist as well as adding piano to his skill set. Roddy settled into piano and vocals with a honky-tonk band where he focused himself with the music he loved and grew up on. Joining the band *Wyld Country* in early 2001 he helped round out their honky-tonk sound with crisp harmonies and piano while helping to create more technically sound arrangements and the bands signature hard hitting country sound. Roddy hails from Santa Rosa, NM.



# PRESIDENT'S RECEPTION AND BANQUET

## Flying J Wranglers

The Flying J Wranglers are famous throughout the southwest for their original western harmonies, instrumentals, and homespun comedy – talents they've showcased to over half a million visitors to their Alto, New Mexico ranch over the past 24 summer seasons.

Beloved by many as troubadours of heritage, hope and humor, the Flying J Wranglers are outstanding musicians and vocalists. In concert, the Wranglers consistently create dynamism of high entertainment value, a charisma fueled by their unique ability to connect with audiences from around the world.

The group was founded in 1982 by rhythm guitarist James Hobbs. James is an accomplished singer and song writer whose work is revered for its' lovely sentiments and gentle lyricism. His picturesque ballad "Song for New Mexico" listed by the Academy of Western Artists as one of the Top Ten Western Songs in the 1990's, has twice been nominated by state legislators to be the official state western song.

James' wife, Cindy, the Wrangler's main vocalist, is distinguished by her powerful and beautiful three-octave voice. She is a Western Style Female National Yodeling champion and has been nominated twice as Best Female Vocalist of the Year by the Academy of Western Artists.

Multi-instrumentalist Randy Jones, a virtuoso on guitar, mandolin, banjo, and dobro, is also a strong vocal performer who many in the Ruidoso area remember from his 15-year career with the Moon Pie Dance Band of El Paso, Texas.

The Wranglers newest member, fiddler Corinna Ripple hales from Santa Clara, California. Corinna is involved in the well known commercial music program at South Plains College in Levelland Texas where she was awarded the prestigious Female Entertainer of the Year award for 2007/2008. Corinna is a talented vocalist, harmony singer, and outstanding fiddler player all wrapped up a 5' 1" package with an infectious laugh and a big smile!

Master of ceremonies, vocalist and acoustic bass guitarist Roy Black previously performed with the popular NM band Timbreline for over fifteen years. The fact the Roy was raised on a ranch and has spent much of his life as a working cowboy, lends authenticity to the Wrangler's stage performances.

Over the years, at the behest of the State of New Mexico, the Wranglers have performed in Japan, Italy, and Germany, and have made guest appearances on the Grand Ole Opry in Nashville, TN and the Nashville Network. Along with renowned western artist Don Edwards and cowboy poet Waddie Mitchell, they held center stage at the Saddle Up Celebration in Pigeon Forge, TN in both 2002 and 2003. In spring of 2004, the Wranglers were the featured evening entertainers at the FMCA annual convention along with the Gatlin Brothers and John Davidson. The Wranglers have recorded 14 albums.

As their legion of fans continues to expand, so have demands for year 'round *Wrangler* appearances. Their programs feature classic western and traditional melodies and the Wrangler's signature spoofs of contemporary songs. An evening with the Flying J Wranglers is filled with old time spirit - - an unforgettable gift for everyone.



## 2009 ANNUAL MEETING COMMITTEES

**GENERAL CO-CHAIRS:** Bob Alexander, E. T. Bartlett

**Webmaster:** Valerie LaPlante

**Video Conferencing:** Jim Lenz

**Communications:** Bernice Gamboa

**SRM Liaison:** Lesley Radtke

**BUDGET/FINANCE:** Michael Casados, Mary Moser

**LOCAL ARRANGEMENTS/HOST ACTIVITIES:** Dan

Merkel, Ken Leiting, Jacque Buchanan

**Mixers/Outside Groups:** Dave Stewart, Judith Dyess, Larry Allen

**Banquet/Food:** Cliff Sanchez, Alicia Gallegos, Lesley Radtke

**Entertainment:** Sabrina Flores, Joe Whitehead

**Social Events/Tours:** Susan Rottman, Jacque Buchanan

**Signs:** Jason Martin, Santiago Misquez

**Space Arrangements/Assignments:** Sam Smallidge, Red Baker

**Committees/Special Meetings:** Ed Frederickson, George Chavez

**Registration:** Lesley Radtke, Richard LaCasse

**Technical Tours:** Donald Serrano, Richard LaCasse, David Anderson

**Transportation:** Gary Wood, Nathan Combs, Don Ellsworth

**Awards/Business Meeting:** Sabrina Flores, Lesley Radtke

**Hotel/Convention Center Liaison:** Lesley Radtke, George Chavez

**Volunteer Coordinators:** John Tunberg, Aaron Hird

**YOUNG PROFESSIONALS CONCLAVE:** Sandra Imler-

Jacquez

**PROGRAM/SESSION OPERATIONS:** Kris Havstad, Kirk McDaniel, Allen Torell

**Symposia:** Andres Cibils

**Equipment, Audio Visual:** Sam Smallidge

**Posters:** Derek Bailey

**Plenary Session:** Dan Merkel, Havstad, McDaniel, Torell

**Producers Forum:** Jim Thorpe

**Program:** Kris Havstad

**TRADE SHOW:** Santiago Misquez, Ann Demint, Keith Banks

**Trade Show Sponsorships:** Bob Alexander, Santiago Misquez,

**Tradeshaw Solicitation:** Keith Banks, Jeff Powell, Tom Bartlett

**New Mexico Country Store:** Tom Bartlett, Santiago Misquez

**PUBLICITY:** Joel Brown, Pete Lefebvre, Lucy Aragon

**Daily Trail Boss:** Joel Brown, Lucy Aragon

**Pre-Convention Trail Boss:** Joel Brown, Shawn Salley

**Media/Press Releases:** Joel Brown, Jim Thorpe, Lucy Aragon

**Rangelands Articles:** Jim Thorpe, Karl Wood, Ed Fredrickson

**FUNDRAISING/SPONSORSHIPS:** Bob Alexander

**STUDENT/YOUTH ACTIVITIES:** Laurie Abbott, David Graham

**High School Youth Forum:** David Graham

**Employment:** Linda Coates-Markle

**All other Student Activities:** Laurie Abbott



**seed  
specialists**

- Forages ○
- Alfalfa / Clovers ○
- Mountain Pasture Grasses ○
- Irrigated and Native Pasture Grasses ○
- Golf Course, Yard and Playground Grasses ○

**Phone: 575-762-4759 • Fax: 575-763-4213**  
**4500 N. Prince • Clovis, NM 88101**  
**www.curtisseed.com**





## We sell a lot more than a bag of seed.

Pawnee Buttes Seed, Inc. provides native and introduced grass, forb, and shrub seed for reclamation, pasture, turf and wetlands.

Our emphasis is on educating our customers on proper management techniques to ensure grass stand longevity and conservation of our natural resources.



Don Hajar, Manager  
PO Box 100 • 605 25th Street • Greeley, CO. 80632  
(800) 782-5947 • (970) 356-7002 • Fax (970) 356-7263  
email: [info@pawneebuttesseed.com](mailto:info@pawneebuttesseed.com)  
[www.PawneeButtesSeed.com](http://www.PawneeButtesSeed.com)