

Florissant Fossil Beds Field Seminars 2015

It is the goal of the Friends of the Florissant Fossil Beds, Inc. and the staff at the Monument to provide high quality, educational programs for the general public and educators. These programs endeavor to further the public's understanding of the geology, history, paleontology, and ecology of the Monument and the Pike's Peak Region.

Pre-registration is required for all seminars.

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Friends of the Florissant Fossil Beds, Inc.

The Friends of the Florissant Fossil Beds are dedicated to assisting the National Park System in preserving, protecting and advancing knowledge about the natural and cultural resources of the Florissant Fossil Beds National Monument. As a 501(3)(c) nonprofit organization, the Friends mission is to raise funds and promote programs and activities to advance the Monument's educational, interpretive and scientific objectives. A vital aspect of the partnership between the Monument and the Friends organization is that of promoting educational opportunities through field-based, experiential seminars. These seminars feature outstanding instructors who are recognized experts in their fields. We invite you to join us and take part in a lifelong process of learning and discovery.

The opinions and views represented in the seminar series are not necessarily that of the National Park Service or the Friends of the Florissant Fossil Beds, Inc.

Seminar Descriptions 2015

Pre-registration is required for all seminars

Birds, Their Nesting and Singing Life

Debbie Barnes

Friday, June 12, 2015, 7:00AM - 3:00PM

In this class, the participants will explore bird songs, their coloring, nesting habits, and eating behaviors. They will observe and compare the various species of birds for size, coloring, and the design of the nests including materials, placements, and size. There will be two different periods for observations of birds. Participants will journal all sightings which will include species, coloring, song, nest, habitat, and personal comments on each bird. The specific time of day and being early in June will give the opportunity to see nesting birds.

(EASY HIKING)

Discover and Create Fossils in the Classroom

Toni Ratzlaff

Wednesday, June 17, 2015, 9:00AM - 5:00PM

In this seminar, the participants will identify, list, and describe examples of the fossils at the Florissant Fossil Beds National Monument. They will have the opportunity to see the fossil lab at the Monument and understand the process of the formation of fossils at the Monument. The participants will hike on the Petrified Forest Loop to see other examples of fossils, keeping a journal, of other fossils seen. The participants will then create fossils of their own using pipe cleaners, glue, paper towels, foil, and scratch art. They will make a 3D model to use with their students. Rubbings will also be made from available fossils and those they have created. (EASY HIKING)

Parks Pioneers - Conservation Champions of Colorado National Parks and Monuments

John Stansfield

Wednesday, July 8, 2015, 9:00AM - 4:30PM

Behind every great national park or monument, there are visionary conservationists; women and men of intelligence, strength and persistence. The stories of these parks pioneers are remarkable but often little known. This seminar highlights the conservation champions for three of Colorado's National Park Service areas: Rocky Mountain National Park, Colorado National Monument, and Florissant Fossil Beds National Monument. The participants will experience a variety of presentation styles including first person narration, third person storytelling, literary readings, quotations and poetry. The participants will also be engaged in a "literary amble" which will be up to a three mile hike where excerpts from Enos Mills and others are shared. The participants will gain a deeper understanding of the conservationists accomplishments and the treasures in each park.

(MODERATE HIKING)

Wildflowers of the West: Botany at its Best - Part One and Two

Doug Coleman

Saturday/Sunday, July 11-12, 2015, 9:00AM - 5:00PM

Day 1: Unique plant communities exist in the Southern Rockies. Colorful wildflowers abound in the summer amidst many species of trees, shrubs, and grasses. The theme for the two day of field trips originating from the Florissant Fossil Beds National Monument is wildflowers and their habitats. This seminar is designed to help

Seminar Descriptions 2015 (continued)

beginner wildflower enthusiasts improve their identification skills to better understand the regional, botanical ecosystems and bring hands-on, outdoor conservation skills to their students. Day 1 will focus on plant communities at the fossil beds. (MODERATE HIKING) Day 2 of this seminar will focus on a wildflower exploration trip to canyons near the Monument that will have very different species than seen at the Monument. Participants may choose to take both days or pick just one day to attend. This seminar is designed to help beginner/intermediate wildflower enthusiasts to sharpen identification skills and place different wildflower species in specific ecosystems in the Pikes Peak region. (MODERATE - DIFFICULT HIKING)

Mammals of Colorado

Linda Groat

Thursday, July 16, 2015, 9:00AM - 5:00PM *AT MUELLER STATE PARK*

Participants will discover the world of Colorado mammals during this in-depth seminar of the natural histories of the many species here in Colorado. Participants will learn to identify skins, skulls, tracks, and scat. We will look at the relationships to their habitats and management techniques along with the challenge inherent with the populations. Time will be spent in the field to see various local mammals and relate them to their habitats. The prime instructor will be assisted by a Wildlife Biologist from Colorado Parks and Wildlife.

(MODERATE HIKING)

Geographic Understanding of the World Around Us

Dr. Steven Jennings

Tuesday, July 21, 2015, 9:00AM - 5:00PM

The study of geography studies a broad number of attributes on the Earth's surface. This seminar will give the participants the ability to see these attributes with a geographical lens. An introduction to geographical thinking, the use of maps, aerial images, and documents will be oriented around the Florissant area. There will be hands-on exercises that can be used both in the classroom and also the field. Participants will learn how to do investigative techniques with students including the use of historical documents and GPS units.

(EASY HIKING)

Follow a Fossil: Behind the Scenes of the Florissant Fossil Beds National Monument

Dr. Herb Meyer and Paleontology Staff

Saturday, July 25, 2015, 9:00AM - 5:00PM

Florissant Fossil Beds National Monument has maintained an active paleontology program since the early 1990s. Participants in this seminar will gain an understanding about the fossil and geologic resources of the Monument, the history of the discovery, and the function of the Monument's ongoing activities in the paleontology division. We will begin with an overview of Florissant's geologic setting to explain how the fossils formed and why they are so significant. We will then go into the field and behind the scenes of the paleontology lab and the collections area in the Monument's new facility. The seminar will showcase current projects to monitor fossil sites in the field, maintain the fossil collection, make excavations for new research, and provide concepts for new exhibits. The participants will be able to see some of the most important objects in the Monument's collection. Participants will have opportunities for interaction in our new project to create a virtual tour exhibit, to prepare and stabilize the delicate shale fossils, and to monitor the condition of fossil sites. We will also discuss some of the highlights of early discovery and the unusual events that led to the establishment of the Florissant Fossil Beds National Monument. (EASY HIKING)

Seminar Descriptions 2015(continued)

GPS/Geocaching Skills

Bob Hickey

Tuesday, July 28, 2015, 9:00AM - 5:00PM

This seminar will begin with basic Earth grid system and GPS skills training. Participants will also have an orientation for the utilization of the GPS and topographic map in the field to locate specific points specified by Latitude and Longitude locations. The seminar will follow the training with an actual GPS field training event consisting of a short hike defined by two field points and a start/finish location. The class will find the two field points and the starting point in a particular order that defines the short hike. The first hike will also be presented in such a way as to define geocaching and how to find the “treasure.” The final hike of the day will be a longer hike under the same conditions as the first. Teams will be sent out on their own to find a set of points , in a particular order to practice the skills learned. (MODERATE HIKING)

Project Archaeology

Linda Groat

Wednesday, July 29, 2015, 9:00AM - 5:00PM

Project Archaeology gives students a basic understanding of how archaeology works and teaches them to respect and protect our nation’s cultural heritage. “Project Archaeology-Intrigue of the Past,” is a program designed for teachers of fourth through seventh grade but anyone would enjoy the contents of the seminar. The program uses archaeology to teach science, math, history, social studies, art, language, and higher thinking skills such as problem solving, synthesis, and evaluation. The program will give an eye opening understanding of the process and a new perspective on archaeological resources. (EASY HIKING)

It is suggested that all participants have a copy of the book, “Project Archaeology - Intrigue of the Past”

Instructor Biographies 2015

Debbie Barnes:

Debbie is an enthusiastic birder and photographer. She has helped with citizen science projects such as Bird Banding, Christmas Bird Counts, Colorado's second breeding bird atlas effort. She has participated in raptor monitoring at Cheyenne Mountain State Park for the last six years and is responsible for finding breeding Barn and Flammulated Owl on park property. Debbie serves on the board of Aiken Audobon Society as the program chair. She is a member of Colorado field ornithologists. She leads birding field trips for Aiken Audobon.

Doug Coleman

Doug Coleman is the founder and Current Executive Director of The Wintergreen Nature Foundation. Doug received an undergraduate degree in biology from Bridgewater College in 1973. He conducted graduate courses on Phytoecology of the Southern Appalachians (UNC Highlands Biological Station 1985), Environmental Institution Management (U of Delaware-1988)(Advanced classes in Ecology and Statistics-UVA.1985-7). He is the Designer of the Wintergreen mountain Community's environmental policies and natural sciences programs since near inception of the community in 1975. He has 37 years of experience dealing with issues in conservation within development, and forest management on Wintergreens 11,000 acres as well as consulting in other areas in the Mid Atlantic region. He is the founder of the 30 year old Spring Wildflower Symposium Event at Wintergreen.

Linda Groat

Linda is currently the Program Coordinator at Mueller State Park. She has had a 30 year career primarily as a naturalist and/or environmental educator. She was the Southeast Region Rural Education Coordinator for Colorado Parks and Wildlife for 15 years. She has taught teachers and students and organizes events for the public. Throughout her career she has also worked for state and national parks and several nature centers across the United States.

Bob Hickey

Mr. Hickey earned his bachelors degree in Mathematics from Worcester Polytechnic Institute and a masters in Computer Science at Arizona State University. He has taught at the high school and college level and worked as an engineer, software developer, information technology manager, a programmer, and is currently volunteering with the Colorado Division of Parks and Wildlife.

Dr. Steven Jennings

Associate Professor in Geography and Environment Studies at the University of Colorado at Colorado Springs. He received his bachelors and masters from the University of Utah. His Ph.D. is from the University of California Davis. Dr. Jennings teaches biogeography, landforms, and cartography classes at UCCS. He is also one of the coordinators of the Colorado Geographic Alliance which is funded by National Geographic and is dedicated to improving geography teaching through teacher professional development.

Herb Meyer

Dr. Herb Meyer has been the Paleontologist for Florissant Fossil Beds National Monument since 1994. He is the author of The Fossils of Florissant, and the author with Estella Leopold of Saved in Time: The Fight to Establish Florissant Fossil Beds National Monument. He received his doctoral degree in Paleontology from the University of California at Berkeley. He is Adjunct Faculty with the University of Colorado at Boulder, a Research Associate at the Denver Museum of Nature & Science, and the Instructor of Record at Adams State University for the seminars sponsored by The Friends of the Florissant Fossil Beds.

Instructor Biographies 2015

Toni Ratzlaff

Toni Busch Ratzlaff is the Art teacher at Summit Elementary School in the Woodland Park School District in Divide, Colorado. Originally from Augusta, Kansas, she has a B.A. in Elementary Education and Art from Ottawa University, Ottawa, Kansas. She has a Colorado Teaching license with endorsements in K-12 Art and Elementary Education. She has received additional credit hours in Art Education through Adams State College, University of Colorado, and Arapahoe Community College. In addition to teaching at Summit for the past 17 years, she was the Executive Director of the Manitou Springs Arts Academy. She has taught many classes for adults, including continuing education workshops for the Colorado Art Education Association, Kennedy Center Imagination Celebration, and the Woodland Park School District. Volunteer positions have included Chair of the Mountain Arts Council, Mountain Artists, and the Mountain Arts Festival. As an artist, her current interests include masks and books. Other interests include sewing, history, geology, and kayaking.

John Stansfield

Raised in Paxton, Massachusetts and Dallas, Texas, he graduated with a degree in English from Holy Cross College, Worcester, Massachusetts. He earned a Master of Arts in Teaching degree from Emory University, Atlanta, Georgia in 1970. A resident of Colorado and a storyteller since 1970, John has told stories professionally since 1979. During that time he has performed for more than one million listeners (thankfully, not all at once) in a great variety of settings. John's programs of stories and a cappella ballads feature: Western History and Environment; Literature Aloud!; and, World Folklore, especially American lore.

A licensed teacher, he is a specialist in storytelling in education, having taught storytelling and other courses at the University of Colorado at Colorado Springs. In 1989, he founded the Rocky Mountain Storytelling Festival, now the Douglas County Libraries Storytelling Festival.

Registration Information

Pre-Registration is Required for All Seminars

The following list will guide you through the registration process:

1. The first step is to decide which course(s) you want to take, noting the fees for each seminar. See course descriptions for more information about each seminar.
2. You can receive discounts on seminars if you are a member of the Friends of the Florissant Fossil Beds, Inc. Are you a current member of the Friends group? Do you need to renew your membership? Would you like to join the Friends for the first time? If you are interested in getting immediate discounts, you can join the Friends with your registration.
3. Are you a teacher? Will you be taking this course for graduate and/or undergraduate credit through Adams State University and/or recertification credit through BOCES?
4. Once you have decided which course(s) you would like to take, what credits, if any, you would like to receive, and whether or not you want to join the Friends group, you are ready to register by one of the following methods:
 - a. (Mail In/ Call In) Fill out the registration form at the end of the brochure and mail it with your payment. You can pre-register by calling (719) 748-3253, ask for extension 109 and leave a message. Your phone reservation will be held for 10 days. Receipt of payment confirms your space in the seminar).
 - b. (On Line) Register on-line by going to www.fossilbeds.org and selecting 'Seminars' from the main menu, following the registration and payment instructions there (through PayPal).

Please remember that for each seminar you want to take for graduate credit from Adams State University, you must fill out a separate graduate credit registration form that is at the end of this brochure.

Also note that you may not repeat a seminar for credit if you have previously taken and received credit for that seminar. Check titles and content carefully since one or two repeated classes may have a new title or description. Call us if you're in doubt. Adams State University tuition or BOCES recertification fee must be included with seminar registration and fees.

Fees and Tuition

Friends' Seminar Fees

\$25.00 fee for each 1 day seminar

\$15.00 discounted fee for current member of Friends, 1 day

Adams State University Graduate Credit Tuition and Adams State University Undergraduate Credit Tuition

\$27.50 tuition for 1/2 credit per 1 day, 7.5 hour class

Please note that you must attend the entire 7.5 hour day to get credit.

BOCES Recertification Tuition

\$15.00 recertification credit through the Pike's Peak BOCES of Colorado Springs

Call For Details (719) 748-3253 ext. 109

Please note that you must attend the entire 7.5 hour day to get credit.

Refund and Cancellation

We reserve the right to cancel any seminar if minimum enrollment is not met. We will make every effort to place participants in another seminar of their choosing or will return the registration fee and ASU tuition/BOCES fee. If you cancel your enrollment for any reason, the following policy will apply: refunds will be given for cancellations received up to one week prior to the seminar, minus a \$5.00 processing fee. No refund is given for cancellation less than a week prior to the seminar.

Disclaimer

•The seminars are educational in nature. In any educational environment, all sides of various issues need to be examined and some of these may prove to be controversial. Views expressed are not necessarily those of the National Park Service, the staff, or Friends of the Fossil Beds, Inc., nor are they responsible for their content.

•In most cases, books recommended will be available for purchase at the seminar, or the Rocky Mountain Nature Association bookstore at the Monument.

Things You Need to Know Once You are Registered

How to get here:

- The Monument is reached from I-25 in Colorado Springs by taking State Highway 24 west approximately 35 miles to the town of Florissant. Turn south (left) on Teller County Road #1, proceeding about 2 miles to the entrance of Florissant Fossil Beds. Proceed to the visitor center area. The seminars will be held in the Yurt (30 foot circular tent) at the south end of the picnic area unless otherwise stated.
- All seminars begin at the Yurt at 9 am and end at 5 pm UNLESS OTHERWISE NOTED. PLEASE READ ALL INFORMATION CAREFULLY in the seminar description. Several seminars may begin at a different time or will meet elsewhere. You are responsible for your transportation in reaching the starting point.
- Allow approximately 1-hour drive from the west side of Colorado Springs, at least 2.5 hours from Denver. Seminars will begin on time. We ask that you arrange to arrive about 15 minutes before the start time to allow for check-in. Allow yourself plenty of time for a stress-free arrival.

What to bring and how to prepare:

- Most seminars will be outdoors for a large portion of the class and may require hiking. Be prepared for changeable mountain weather with layered clothing, rain gear, comfortable hiking shoes, hat, sunglasses and sunscreen. Insect repellent is a good idea. Meals are not provided, so bring a sack lunch, snacks, ample drinking water, and a plastic sack to carry away any refuse from your day. Bring a notebook and pen. You may wish to bring binoculars, camera, field lens, or any other items that would enhance your experience.

You will be called before the seminar to insure you are prepared for the seminar with directions, proper clothing, lunch, and to address any concerns or physical limitations. You will also be notified if carpooling is a part of the seminar you will be attending.



Friends of the Florissant Fossil Beds, Inc.

Join the Friends of the Florissant Fossil Beds, Inc. and help support Florissant Fossil Beds National Monument. Receive an immediate discount on your seminar fees!

Friends Membership Form

Membership Categories

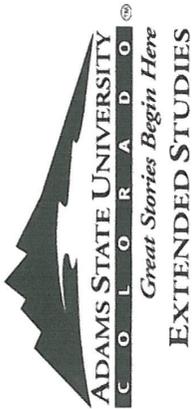
Individual	\$15.00	Name_____
Individual (2 year)	\$27.00	Street_____
Family	\$25.00	City_____
Family (2 year)	\$40.00	State_____
Corp/ Business	\$100.00	ZIP_____
Lifetime (Old Fossil)	\$300.00	Phone_____
Contribution_____		Email_____
Total _____		

Seminar Registration Form

Teacher graduate credits are \$27.50 for 1/2 credit (7.5 hours)

Course Number	Seminar Title	Seminar Fee	Adams State Tuition \$27.50	BOCES \$15.00	Total amount this seminar
ED 589					
ED 589					
ED 589					
ED 589					
ED 589					
ED 589					
			Membership Dues		
			Subtotal		
			Total		

Mail completed forms with payment to:
 Friends of the Florissant Fossil Beds
 PO Box 185
 Florissant, CO 80816



ADAMS STATE UNIVERSITY
 208 Edgemont Blvd., Suite 3000 Alamosa, CO 81101
EXTENDED STUDIES REGISTRATION FORM
 Toll Free: 1-800-548-6679 or (719) 587-7671 FAX: (719) 587-7974
 Website: <http://lexstudies.adams.edu>

Date _____ Social Security Number _____ / _____ / _____ Birthdate _____ / _____ / _____ E-Mail Address _____

Full Name: _____ (Last) _____ (First) _____ (Middle) _____ Previous Name _____

Mailing Address: _____ (Street - P.O. Box) _____ (City) _____ (State) _____ (ZIP) + 4 _____ New Address?: Yes _____ No _____

Sex: M F Home Phone: _____ Work Phone: _____ School District: _____

Have you previously enrolled at Adams State University? Yes No No (Non-Resident)

Classes 100-400 level are undergraduate. 500 level classes are graduate level.
 You must have at least a BA/BS to register for a course numbered 500 or above.

Course Prefix & Number:

Course Title:

Date:

Credit Hours/CEUs:

Instructor of record:

****I understand that if an incomplete grade is awarded, the incomplete grade will change to an "F" grade exactly one year from the registration date unless an earlier date is specified by my instructor.****

I understand that if I have registered for hours in excess of 20 within this term, I must acquire Extended Studies approval prior to registration for this course. I understand that I must fulfill the residence requirement in effect for any special degree or certificate. I understand that if this class is to be used in a degree program, approval must be secured from the student's assigned academic advisor. I hereby request admission to Adams State University as an Extended Studies (non-certificate or non-degree bound) student. I understand that if I wish official admission to a degree program, I must submit a regular application. I certify that all information (including Selective Service) I have provided is true.

- Ethnicity: (Mark any that apply. Not required.)
- American Indian or Alaskan Native
 - Black, not of Hispanic origin
 - Hispanic
 - Asian or Pacific Islander
 - Caucasian/White, not of Hispanic Origin
 - Do not wish to provide this information

Signature: _____ Date: _____

An Official Transcript will be sent to your mailing address at no additional cost when a final grade for this course(s) has been posted. To request additional transcripts, please visit <http://www.getmytranscript.com>.