

Florissant Fossil Beds Field Seminars 2013

Florissant Fossil Beds Summer Seminar Series 2013

The 2013 Seminar Series is dedicated to the new visitor and research facility at Florissant Fossil Beds. It is the goal of the Friends of the Florissant Fossil Beds, Inc. and the staff at the Monument to provide high quality, entertaining, 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.

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Friends of the Florissant Fossil Beds, Inc.

The Friends of the Florissant Fossil Beds, Inc. is a non-profit organization comprised of people just like yourself who are strongly dedicated to supporting Florissant Fossil Beds National Monument through a number of dynamic, innovative, and creative programs. All proceeds assist the Monument in protecting the world-class fossils and educating the public about their significance. 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.

Fees and Tuition

Friends' Seminar Fees

\$50.00 fee for each 1 day seminar

\$40.00 discounted fee for current member of Friends, 1 day

Adams State University Graduate 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.

Adams State University Undergraduate Credit Tuition

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

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

Teacher Discount:

Teachers who join the Friends of the Florissant Fossil Beds and sign up for a seminar by June 1st are entitled to a special rate for seminars which is \$30.00 for a one day and \$40.00 for a two day seminar.

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.

Registration Information

How to Register...

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 as outlined on Page 3. See course descriptions for more information about each seminar (See the next few pages).
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. To join the Friends group, please read, fill out, and mail in the registration form for the Friends group at the back of this brochure along with your registration form for the seminars you would like to take.
3. Are you a teacher? Will you be taking this course for graduate and/or undergraduate credit through Adams State and/or recertification credit through BOCES? Note the prices for credits as outlined on Page 3. For each seminar that you want to receive graduate credit (or undergraduate) from Adams State, you must fill out and submit a separate Adams State graduate (or undergraduate) credit form that are available at the end of this brochure.
4. Once you have decided upon the courses, decide whether or not you want to join the Friends group, and decide whether or not you are taking the course for any kind of credit, you are ready to fill out the registration form at the end of the brochure and mail it in with your payment.
5. NOTE: You can also pre-register by phone. Call (719) 748-3253 ask for extension 109 and leave a message. Your phone reservation will be held for up to ten days without payment. Receipt of payment confirms your space in the seminar.

Taking a seminar for credit? **READ THIS!**

Please remember that for each seminar you want to take for graduate (Undergraduate) credit from Adams State, 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 College tuition or BOCES recertification fee must be included with seminar registration and fees. Please write your check for the entire amount payable to Friends of Florissant Fossil Beds, Inc. We cannot accept credit cards in payment. Sorry.

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.

Seminar Descriptions 2013

Aquatic Entomology/Streamside Field Trip

Robert Younghanz “The Bug Guy”

Thursday, June 27, 2013, 9:00AM - 5:00PM

Join Robert Younghanz, a.k.a. THE BUG GUY for his 2 part Aquatic Entomology Class. Robert will help you understand the insect in our local streams. This lecture and streamside class focuses on the identification and life cycles of key aquatic insect’s found in Colorado’s rivers and streams. 10 students maximum

Class Supplies: Aquatic Insect Collecting Kit. (\$25.00). Will be available from instructor. Check or Cash Please. No change available.

School in the Woods: Lessons Learned from Creating a Nature Based School

Jonathan Wuerth with Carol Stansfield and John Stansfield

Tuesday, July 2, 2013, 8:00AM - 4:30PM

Description: The two teachers who created Academy School District #20’s School in Woods will share learning experiences inspired by nature which teachers can implement in their classrooms, on their school grounds, or on field trips. Activities will be integrated with state standards in Science, Reading, Writing, and Social Studies. Teachers should come prepared to spend an active day outdoors. Please wear appropriate outdoor clothing (no sandals).

Personal Pictograph

Toni Ratzlaff

Tuesday, July 9, 2013, 9:00AM - 5:00PM

Description: Ever wonder what prehistoric people meant when creating petroglyphs and pictographs? Connect with those ancient artists by creating your own symbols-based autograph. Consider how combining simple images could really describe you without words or letters. Draw those images together and then add some color and updated art materials to really make it your own.

Once you have designed your symbol, you will have an opportunity to make a printing plate and print several copies, some of which will be used as Artist Trading Cards. Trace onto shrink art plastic, color, and make a charm of your symbol, and create a 3-dimensional version with air-dry clay. You might even choose to make a stamp of the symbol to use in whatever way you wish. End the day with an Artist Trading Card trade and an origami folder to keep them together.

Ecosystems and Flora of the Central Rockies

Thursday and Friday, July 11-12, 2013, 9:00AM-5:00PM

Doug Coleman

A very concentrated class representing an overview of trees, shrubs, wildflowers and grasses of the Central Rockies region. The first day will start early with an overview discussion that will enable participants to predict

Seminar Descriptions 2013 (continued)

and grasslike plants. This group can comprise 40 or more percent of the flora in many western ecosystems and should not be overlooked by land managers and amateur botanists. Participants will be amazed at the beauty, diversity and cultural uses of native grasses and how simple identification is with the proper tools.

Florissant Bugs: Past Mysteries and Present Challenges

Saturday, July 13, 2013, 9:00AM - 5:00PM

Eric Eaton

The Florissant Valley is world-renowned for the extraordinary fossils of insects, spiders, and related arthropods that continue to be found there. Florissant Fossil Beds National Monument also protects a diversity of living species today. Participants in this class will view actual fossils under the microscope and take to the field to find their present day counterparts. Why do some of the fossils represent insects found today only in Africa? This and other mysteries will be solved in the class.

Exploring the Geology and History of Gold Mining in the US: Both Past and Present

Thursday, July 18, 2013, 9:00AM-5:00PM

Brennan O'Connell

Gold exploration and mining have always been a great topic of interest in the world, due to its extreme rarity, usefulness, and beauty. Beside from its monetary uses, gold is used in jewelry, electronics, the aircraft-aerospace industry, and the medical and chemical fields. Many western states in the US host major gold deposits, such as Colorado, California, Nevada, and Alaska. This seminar will explore the broad history surrounding gold in the US, including various gold rushes, and techniques of mining and extraction of ore, both past and present. Furthermore, the fascinating geology of common gold ore deposits will be discussed. In addition to discussing the history of gold in the US, the seminar will focus on the specifics of the Cripple Creek and Victor Mining District, the current largest producer of gold in Colorado. A field trip to the Cripple Creek and Victor Mine will end the seminar.

Historical Sites of Sanborn Western Camps

Saturday, August 3, 2013, 9:00AM-5:0PM

Jerry McLain

Visit the 1890's homestead of Daniel Bell -- rustically restored log cabin, barn, tool shed, cellar and "out buildings" now used as a learning center for the outdoor education program and the summer camps. Hear stories of the Arlo George family who lived there in the 1940s. Puzzle over the uses of interesting implements and tools. Discover work saving designs in rugged pioneer living. Tour the historic nineteenth-century ranch of Walter Witcher -- at once a modern working cattle ranch and a museum of buildings and practices of another era. Blacksmith shop, slaughter house, calving shed, milking barn, potato cellar, corrals, pastures and spring tanks. Echos of cattle drives from Texas, branding, butchering, anvils, haying, and roundup! If time allows, the Tie Cabin and possible ancient archaeological sites and primitive early cabin sites will be visited.

Instructor Biographies 2013

Doug Coleman

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 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.

Eric Eaton

Eric studied entomology at Oregon State University. He has worked most recently as Assistant Butterfly Curator at Butterfly Magic at the Tucson Botanical Gardens. He provided insect and spider identification for the University of Massachusetts. He has published and or contributed to the production of numerous publications including the *Kaufman Field Guide to Insects of North America*. He has worked at the Cincinnati Zoo, Smithsonian Institute, Portland State University, and the West Virginia Department of Natural Resources. He was listed as one of the top 50 experts on the site AllExperts.com for bugs in 2009.

Jerry McLain

Director for Alumni Relations and Former Executive Director at Sanborn Western Camps/ Colorado Outdoor Education Center. Jerry has been with Sanborn Western Camps since 1959 as Program Director and Associate Director at Big Spring Ranch for Boys. He served as Director of the High Trails Outdoor Education Program. He is a former school teacher, school board member, member of the Colorado Childcare Licensing Advisory Committee, and a current board member of the Friends of the Florissant Fossil Beds. He grew up in Eagle, CO and graduated from the University of Colorado with a degree in Social Sciences and Education.

Brennan O'Connell

Brennan received her Bachelor of Arts, Geology from Colorado College in May 2013. For the past three summers, she has served as an Exploration Intern and Field Assistant at the Cripple Creek and Victor Gold Mine. Her duties included exploration for deposits, coordinating with drilling operations, constructing a geologic map, and digitizing data. For 5 years, she has also been coaching soccer.

Toni Ratzlaff

Toni Busch Ratzlaff is the Art teacher at Summit Elementary School 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 15 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.

Carol Stansfield

Carol co-founded the School in the Woods with Jonathan Wuerth in 1999. She received her Masters of Education in Outdoor and Environmental Education in 1976 from Penn State University. She was the Co-lead Teacher of the School in the Woods from 1999 - 2007. She has over 30 years of classroom teaching and outdoor education teaching experience. She has been an active trainer in the field of outdoor and environmental education.

John Stansfield

Storyteller and author John Stansfield began exploring western North America as a boy in 1960 and has never stopped. He loves hiking and skiing the West and telling stories about its diverse lands, wildlife, and people. Stansfield presents programs reenacting the lives of Enos Mills and Charles Fox Gardiner, pioneer physician. He recently authored biographies, *Enos Mills: Rocky Mountain Naturalist* and *John Denver: Man for the World* (Filter Press 2005, 2008 respectively). His book *Writers of the American West: Multicultural Learning Encounters* (Teacher Ideas Press, 2002) earned a Colorado Authors' League Award and was a finalist for the Colorado Book Award. He teaches storytelling on the adjunct faculty of the University of Colorado--Colorado Springs and is the founder of the Rocky Mountain Storytelling Festival. John spends his spare time working to protect Colorado's wild places. For these efforts, the Wilderness Society presented him an Environmental Heroes Award in 2004.

Jonathan Wuerth

Jonathan co-founded the School in the Woods with Carol Stansfield in 1999. He has received two Master's Degrees. One in Educational Leadership and one in Integrated Science Education. He received the Outstanding Educator of the Year for Academy District 20. He is now the Coordinator of the School in the Woods in District 20, which is a School of Choice Program within Academy District 20. The school integrates the natural sciences with other aspects of the district's fourth grade established curriculum and has become highly respected winning state and regional awards.

Robert Younghanz

Robert Younghanz, a.k.a The Bug Guy, is an internationally known Fly Fishing Guide and instructor. Robert has been involved in the Fly Fishing industry for close to 20 years. His passion and expertise in the field of Aquatic Entomology has enabled him to travel the world collecting Insects, as well as studying, researching, curating and teaching at Colorado State University, and Front Range Community College. In addition, Robert is a published researcher and has described several new species of aquatic insects from Colorado and Oklahoma. Robert has been a guest lecturer across the Western United States on the topic of Aquatic Entomology. As a contributing writer to *Field and Stream's* "Fly Talk" with "The Bug Guy" Robert offers helpful advice on entomology and fly selection to fly fishers all over the globe.



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://exstudies.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: _____

Are you a Colorado Resident? Yes No (Non-Resident)
 I have lived in Colorado since: _____

The following Selective Service question must be answered to comply with Colorado State Law: If you are a male born after December 31, 1957, are you registered with the Selected Service? Yes No

Course Prefix & Number: _____

Course Title: _____

Date: _____

Credit Hours/CEUs: _____

Instructor of record: _____

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

I do not wish to provide this information

Credit, Tuition and Payment Information:
ASU Tuition = 0.50 Credit Hours - \$27.50
 (Additional instructor fees may apply, please consult your instructor)

Mastercard Discover

Visa Check (payable to Adams State University)

Account number (16-digits) _____

_____ CID number (3 digit number on back of credit card)

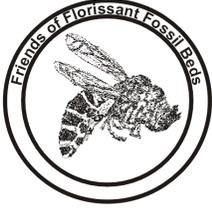
_____ Expiration date (month/year)

****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.

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>.



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