



JOHNS HOPKINS
UNIVERSITY

Center for Talented Youth



Colorado Dinosaur Discovery

June 19 - 25, 2010

Johns Hopkins University
Center for Talented Youth
Family Academic Programs

Dear CTY Families:

What could be more thrilling for young students than the chance to dig for dinosaur fossils deep in Colorado's red-rock country? We invite you to join us in western Colorado this summer on an exclusive, exciting expedition designed for families to discover the world of paleontology in one of the richest dinosaur domains in the country.

On this program, we hike the "Trail Through Time," where dinosaur skeletal fragments have remained embedded for 145 million years, and dig side-by-side with scientists in a quarry where incredible discoveries have been made, including bones from eight species of dinosaurs.

Based in the beautiful Grand Valley of the Colorado River – a region teeming with dinosaur fossils – this program, reserved especially for CTY families, will take us from prospecting to quarrying to laboratory preparation of fossils. The enthusiastic field staff is expert at tailoring instruction for all age levels, with emphasis on both fun and learning. Our expedition also includes a wonderful array of activities outside the dinosaur quarries. Enjoy a rafting trip on the spectacular Colorado River, hike in awe-inspiring Colorado National Monument, and ride horses through a beautiful, secluded valley.

The Grand Junction area is also the perfect region from which to extend a family vacation to other destinations in the West. The phenomenal National Parks of Utah, the incredible ruins of Mesa Verde, and that most western of towns, Durango, Colorado are a few of the nearby possibilities.

This is an exciting opportunity for our CTY families to create unforgettable summer memories, to establish friendships within the CTY community, and to enjoy an enriching educational process as we do it! We hope you join us in Colorado this summer.

Sincerely,

Ian Reynolds,
Director, Family Academic Programs
The Johns Hopkins University Center for Talented Youth



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TOUR HIGHLIGHTS

- Excavate dinosaur fossils at the Mygatt-Moore Dinosaur Quarry, where eight different species of dinosaurs have been found.
- Hike the "Trail Through Time" where portions of dinosaur skeletons remain embedded in the rock where they have been for 145 million years.
- Learn about the science of paleontology from paleontologist Jonathan Cooley, who has helped collect a variety of dinosaurs from Jurassic super-giants to Cretaceous embryonic babies.
- Prepare fossils and cast bones and teeth in a professional lab.
- Take an exciting float trip on the Colorado River through beautiful canyons, concluding with a barbecue at the river's edge.
- Hunt for insect and plant fossils from the Green River Formation on the 9,000-foot, alpine Douglas Pass.
- Make rubbings of dinosaur tracks at an actual dinosaur track site where sediments have preserved tracks for millions of years.

Day 1: Grand Junction, CO

Arrive independently in Grand Junction and check into the Doubletree Hotel Grand Junction. Located 28 miles east of the Utah border at the junction of the Colorado and Gunnison rivers, Grand Junction is an oasis in the desert. Nestled between towering rock formations and beautiful, lush mountain ranges, it provides the perfect setting for an educational family program. This evening, we gather for a welcome dinner and orientation. *(Dinner)*

Day 2: Split Rock Dinosaur Area

Here we learn to distinguish bone from rock in this prehistoric landscape. Afterward, we enjoy lunch at the Dinosaur Journey Museum and discover life-size robotic dinosaurs. The Museum features the latest exhibits and information about dinosaur excavations, realistic robotic dinosaurs, and a working paleontology laboratory. Later this afternoon, we tour the spectacular red rock canyons of Colorado National Monument before returning to the hotel. *(Breakfast; Lunch)*

Day 3: Grand Valley/Unaweep Canyon

Today the students ride horseback through a secluded canyon at the base of the stunning sandstone cliffs that form the edge of the Uncompahgre Plateau. The parents delight in riding in an authentic western wagon and regroup with the children back at the stables. For lunch, we picnic on the banks of West Creek in Unaweep Canyon and cool off in the creek's clear, flowing waters. Afterward, we visit an actual dinosaur track site where we make track rubbings to learn about dinosaur movements. The balance of the evening is at your leisure. *(Breakfast; Lunch)*

Day 4: Mygatt-Moore Quarry

Our exciting day begins at Mygatt-Moore Quarry with a hike on the "Trail Through Time" to identify large fragments of dinosaur skeletons that have been embedded in place for 145 million years. Dinosaur bones are the main products of the quarry, but plant fossils, including small leaves and petrified branches are common. Fossil invertebrates, including snails and small arthropods have also been found, and fish have been discovered in a volcanic ash layer just above the quarry. Afterward, we learn excavation techniques and dig for Jurassic bones in the quarry. *(Breakfast; Lunch)*

Day 5: Douglas Pass

This morning we tour a fossil laboratory and learn to cast dinosaur bones and teeth. This afternoon we drive up from the desert canyons of Grand Valley to the 9,000-foot high Douglas Pass to hunt for plant and invertebrate fossils in an alpine forest. Dinner this evening is at leisure. *(Breakfast; Lunch)*

Day 6: Ruby and Horsethief Canyons

Today we raft the Colorado River through the redrock country of Ruby and Horsethief Canyons. We float through miles of towering red sandstone canyons and see huge boulders, Precambrian schist, and evidence of the Fremont Indian culture. A festive CTY farewell dinner by the river is served to celebrate a remarkable week with family and new friends. *(Breakfast; Lunch; Dinner)*

Day 7: Grand Junction

This morning we depart Grand Junction for our independent return flights home.

Portions of this program take place on land managed by the Bureau of Land Management.



ACCOMMODATIONS

The Family Dinosaur Dig is based at Hilton's Doubletree Hotel Grand Junction, overlooking the Grand Valley and bluffs of the Grand Mesa Plateau. The hotel features an outdoor swimming pool, lighted tennis courts, sand volleyball, basketball court, and a children's playground. Recently refurbished guestrooms are furnished with two double beds, with roll-away beds available upon request. All rooms also feature hair dryers and coffee makers as well as complimentary high-speed wireless internet access. The hotel also provides complimentary airport transfers.

FACULTY



Jonathan Cooley studied geology and paleontology at the University of Colorado and at Montana State University, where he completed his thesis on the world-famous Morrison Formation. Jonathan developed a field techniques course for the Museum of the Rockies paleontology field school at Egg Mountain. In addition to leading family programs and camps in the American West for over ten years, Jonathan has led numerous groups to fossil sites in Alaska, Mongolia, Argentina, and Mexico.

PROGRAM COSTS

Land price for Adult (based on double occupancy).....	\$3380
Land price for Child, under 16, sharing with at least one adult.....	\$2750

RESERVATIONS

Please make reservation(s) for the people named below to join the CTY Colorado Dinosaur Discovery, June 19-25, 2010. I (We) enclose our non-refundable deposit of \$_____ (\$500 per person).

CTY Student Name(as on passport)	Student ID	Expiration Date
Street Address	City	State
Daytime Telephone	Evening Phone	Date of Birth
Accompanying Person's Name(s) (as on passport)		Expiration Date
Street Address	City	State
Daytime Telephone	Evening Telephone	Date of Birth
Names(s) for Name Badges	E-Mail Address(es)	

ACCOMMODATIONS

Rooms at the hotel have two double beds and are based on double occupancy, with a minimum of 2 persons per room. For example, families with 2-3 persons are accommodated in one room, while families of 4 receive 2 rooms. ATA will call to confirm accommodation arrangements you have selected upon receipt of your application.

All rooms reserved for Center for Talented Youth will be non-smoking rooms.

METHOD OF DEPOSIT*

- Check for non-refundable deposit enclosed (\$500 per person). Please make deposit check payable to JHU/CTY. (There is a \$50 fee for all returned checks).
- Credit Card. Please charge my
 - MasterCard
 - Visa for the deposit.

Card Number: _____
Expiration Date: ____/____/____

Name as it appears on credit card (please print)

Signature

** Visa or MasterCard credit cards may be used for tour deposit and airfare only. The balance of the program price must be paid by check upon receipt of invoice. The invoice for the balance (minus the \$500 per person deposit) will be sent on March 22, 2010 and all monies are due by April 20, 2010.

I have read the Tour Conditions and Responsibility Clause and agree to all therein.

Signature Date

Signature Date

Mail to:
Family Programs Registration:
Colorado Dinosaur Discovery
P.O. Box 64300, Baltimore, MD 21264
OR fax to (866) 832-8621

WHAT IS INCLUDED IN THE TOUR COST

First-class accommodations based on adult and child occupancy; five breakfasts, five lunches, two dinners; all excursions, activities, and transportation as set forth in the itinerary; transfers to and from the airport; the assistance of a CTY representative, the services of a study leader/lecturer, and an Academic Travel Abroad, Inc. tour manager; pre-trip notes and guidelines; service charges, taxes, and basic gratuities.

WHAT IS NOT INCLUDED

Flights from your home city to Grand Junction and return; meals except as outlined above; personal items such as alcoholic beverages, soft drinks, mineral water, a-la-carte orders, room service, and valet/laundry charges; expenses incurred by Academic Travel Abroad in making individual travel arrangements in conjunction with the tour; and other items not specifically mentioned as included.

PAYMENT SCHEDULE

A \$500 per person, non-refundable deposit is due upon application. Deposits submitted will be processed automatically upon receipt. However, your family's reservation is secured only when you receive your written confirmation. In the event that the program is filled, you will be issued a complete refund and put on a waiting list. Please do not purchase non-refundable airplane tickets until you receive our registration confirmation. The remaining balance is due upon receipt of invoice, approximately 90 days before departure. Visa or MasterCard credit cards may be used for deposits and optional, independent airfare. However, we require that final payments be made by check.

CANCELLATION AND REFUNDS

Notifications of cancellation must be made in writing to Academic Travel Abroad, Inc. and CTY. Upon written cancellation, between the time of confirmation/receipt of deposit and 61 days of departure: full refund, minus your non-refundable deposit. Written cancellation between 60 and 31 days prior to departure: 50% refund of the tour price, minus your non-refundable deposit. Written cancellation within 30 days prior to departure: no refund. Cancellation on day of departure or after tour departs: no refund. No refund for unused portions of tour, including, but not limited to, missed meals, hotel nights, and sight-seeing. Cancellation of program by CTY and Academic Travel Abroad, Inc.: full refund. Cancellation of the program after departure by CTY and Academic Travel Abroad, Inc.: full refund of all land fees, less the cost of service up to the time of the group's return. NOTE: Neither CTY nor Academic Travel Abroad, Inc. accepts liability for any airline cancellation penalty incurred by the purchase of a non-refundable ticket to Colorado and return. We strongly urge applicants to consider purchasing trip cancellation insurance.

A NOTE ABOUT ITINERARY AND COST

While every effort will be made to carry out the program as planned, the itinerary as described is subject to modification and change by CTY and Academic Travel Abroad, Inc. The program cost is based upon information as of July 2009, and assumes that a minimum of 21 participants will join the program. While we will do everything possible to maintain the listed price, it is subject to change. If it is necessary to levy a surcharge, notification

will be given before time of invoicing (approximately 90 days prior to departure). In the event of cancellation due to a surcharge, all monies are fully refundable except for a non-refundable processing fee of \$200 per person. Please do not make any non-refundable travel arrangements until we have confirmed the program.

INSURANCE

We strongly recommend the purchase of trip cancellation insurance, which is available for coverage of expenses in conjunction with cancellation due to illness or accident. Baggage insurance is also recommended. In the event that you must cancel your participation in a travel program, trip cancellation insurance may be the only source of reimbursement. We will send you a brochure from Travel Insurance Services, or you may obtain coverage through a company of your choice.

WHO MAY ATTEND

This program is designed for CTY 5th - 12th graders and their parents/guardians. Younger siblings and friends within one or two years of this age group may attend if

they are registered and parents are comfortable about the child's ability to join in laboratory activities. At least one parent or legal guardian must register and participate in program activities. All travelers should be in good health before registering and comfortable with a rigorous schedule of walking and climbing stairs. The enrollment is limited and CTY families will be accepted in the order deposits are received.

HEALTH RECOMMENDATIONS

To enjoy your dinosaur expedition to the fullest you should be in good physical and mental health. You can expect the weather in the Grand Junction area to be hot and dry, with daytime temperatures often reaching well into the 90's. Most days are filled with activities, but there will be time to relax and have a swim before dinner. In terms of physical activity, none of the hikes included in the program will be longer than two miles. While the pace will always be leisurely as we explore the world around us, terrain will often be rocky, so participants need to be comfortable walking over uneven paths. Any physical condition requiring special attention, diets, or treatment must be reported in writing when the reservation is made. We reserve the right to decline to accept or retain any person as a tour member should such a person's health, mental condition, physical infirmity, or attitude jeopardize the operation of the tour or the enjoyment of other participants.

RESPONSIBILITY

Read Carefully: Responsibility Statement and Liability Disclaimer

Johns Hopkins University/CTY's (JHU/CTY)'s Colorado Dinosaur Discovery tour is managed by Academic Travel Abroad (ATA), a professional tour operator, hired as independent contractors. ATA acts only as an agent for the respective suppliers by making arrangements for transportation, accommodations, and other services. Neither JHU/CTY nor ATA shall be held liable for personal injury, death, property damage or accident, delay or irregularity arising out of any act or omission of these suppliers. JHU/CTY and ATA reserve the right, without penalty, to make changes in the published itinerary

whenever, in their judgment, conditions warrant, or if they deem it necessary for the comfort, convenience, or safety of tour participants. JHU/CTY and ATA also reserve the right, without penalty, to withdraw the tour announced, to decline to accept any person as a participant in a tour, or to require any participant to withdraw from the tour at any time, when such action is determined by tour staff to be in the best interests of the health, safety or general welfare of the tour group or the individual participant, subject only to the requirement that the recoverable portion of the total amount paid that corresponds to the cost of unused services and accommodations be refunded, if any. Participants are encouraged to purchase airline tickets no sooner than 60 days before the tour begins to avoid airline cancellation penalties if a tour is canceled or otherwise modified subsequent to the participant's purchase of those tickets. JHU/CTY and ATA accept no liability for the purchase of non-refundable airline tickets to the tour departure city and return. Baggage and personal effects are at all times the sole responsibility of the participant. Dates, schedules, program details, and costs, although provided in good faith based on information available at the time of publication of the brochure or catalog, are subject to change and revision.

AS A CONDITION OF ACCEPTANCE OF ANY APPLICATION, EACH APPLICANT MUST AGREE TO THE STATEMENT SET FORTH BELOW:

The undersigned has read carefully the Responsibility Statement and Liability Disclaimer set forth above, the schedule of activities for this tour, as well as the terms and conditions of application and participation as set forth in the tour literature, and recognizes and accepts any risk associated with the tour and the conditions, including the refund policy, set forth in the tour brochure(s). The undersigned further acknowledges that there are many risks and uncertainties inherent in any travel tour, including but not limited to the hazards of various modes of transportation, forces of nature, acts or omissions of foreign governments, terrorism, war or insurrection, theft, illness, and damage to person or property due to the negligent acts or omissions of tour staff or others. In consideration of, and as part payment for, the right to participate in the tour, the undersigned, on behalf of himself, his dependents, heirs, executors, administrators and assigns, agrees to release JHU/CTY, its Regents, officers, employees, representatives or agents, the United States, and ATA and its officers, employees and agents, from liability for personal injury, death, property damage or loss suffered by any person in connection with this tour, even if caused by the negligence (but not the reckless, willful, or fraudulent conduct) of tour staff or other related persons or entities. In addition, by registering for this tour, the applicant certifies that he or she is mentally and physically capable of full participation in this tour.

BY REGISTERING FOR THIS TOUR SPONSORED BY JHU/CTY THE PARTICIPANT AGREES TO THE RESPONSIBILITY STATEMENT AND LIABILITY DISCLAIMER AND THE TERMS AND CONDITIONS HEREIN.

CONTACT

Please call CTY at (410) 735-6115 or email: ctyfam@jhu.edu