



**HIKE INFORMATION, REGISTRATION FORM, LIABILITY RELEASE FORM
FOR HIKE FIELD TRIPS IN THE UPPER GRAND COULEE AREA-
CASTLE LAKE BASIN AND GIANT CAVE ARCH**

Sponsored by Ice Age Floods Institute, Cheney-Spokane Chapter

WHEN: SATURDAY, OCTOBER 7, 2017 – 9:30 a.m. to 6 p.m.

And/or: SUNDAY, OCTOBER 8, 2017 – 9:30 a.m. to 6 p.m.

HIKE LEADERS: GENE KIVER AND BRUCE BJORNSTAD

Gene Kiver graduated from Case University in Cleveland and later from the University of Wyoming where he received his Ph.D in Geology. He taught Geology for over 32 years at Eastern Washington University and conducted an active research career that emphasized landforms and surficial processes. Glacial geology of the western U.S, geothermal ice caves on Mts. Rainier and Baker, national park geology, speleology, and the Missoula Floods are his main professional interests. He has numerous professional papers including technical papers, guide books, consulting reports, and text book on the *Geologic Story of the National Parks. On the Trail of the Ice Age Floods, the Northern Reaches* with coauthor, Bruce Bjornstad, was published in June 2012, and, *Washington Rocks in 2016*.

Bruce Bjornstad is licensed geologist/hydrogeologist and recently retired as a Senior Research Scientist at Battelle's Pacific Northwest National Laboratory. He received his Bachelor's degree in geology from the University of New Hampshire and a Master's degree in geology from Eastern Washington University. During his 35-year career he has written numerous documents and reports on the geology of the region as well as two geologic guidebooks on the Ice Age floods that transformed the Pacific Northwest as recently as 13,000 years ago. Bjornstad is also the creator of an online YouTube Channel titled: "Ice Age Floodscapes".

Hikes are limited to 30 participants; register early.

DESCRIPTION OF CASTLE LAKE BASIN HIKE, Saturday October 7

The Castle Lake basin hike is near the east end of the massive Great Cataract Group and is about 3.5 miles round trip. The plunge pool lake and the potholed bench above Deep Lake are reached by an overland walk and descent across the Castle Lake cataract via two sturdy iron ladders (built mid last century during the Columbia Basin Irrigation Project. You can view some of the hike area at this link:

<https://1drv.ms/v/s!AgLZYBSD8IappzASJU3UXdHBICV->. It is also posted on Bjornstad's YouTube Ice Age Floodscape YouTube channel [Castle Lake Cataract](#)

DESCRIPTION OF GIANT CAVE ARCH HIKE, Sunday, October 8

The Giant Cave Arch is a rock shelter cave located in a remote canyon on the west side of the upper Grand Coulee. The hike is about 3 miles long and includes discussion and observation of Steamboat Rock and deltas that formed in former Glacial Lake Columbia.

AGE LIMITATION: Young adult's ages 12-16 years of age must be accompanied by an adult during the hike; *no children under the age of 12 are permitted.*

PHYSICAL REQUIREMENTS FOR HIKE: A hiker should be in good physical shape and be capable of hiking up to 6 miles, sometimes over rugged terrain. A hiker should not have serious heart or vertigo problems.

ITEMS TO BRING WITH YOU: Good shoes, water, snacks, lunch, appropriate clothing for variable weather and other conditions, protection from the sun, emergency items, cameras, and binoculars are strongly recommended. *Walking poles might be helpful.*

CAMPING: Overnight camping is available at Sun Lakes or Steamboat Rock state parks for those wishing to participate in both hikes. Motels are also available in nearby Grand Coulee or Soap Lake. More information will be sent to enrollees. **A Discover Pass is required for all parked vehicles.**

Pets are not allowed on the hike(s).

REGISTRATION INFORMATION AND FORM

Prior to Monday, October 1, complete (1) Registration Form, (2) Liability Release Form, and (3) mail with fee payment to Hike Field Trip Registrar:

Jim Fox
1221 West 21st Ave.
Spokane, WA 99203

Make checks payable to IAFICS.

For how to join IAFI or hike registration information, email Jim Fox at cjgbfox@gmail.com or call him at 509.456.0869. For hike information, contact Gene Kiver at froghollow@sisna.com.

Register me for:

- Both Hikes for Saturday and Sunday, Oct 7 and Oct 8
- Castle Lake Hike **Only**, Saturday, October 7
- Giant Cave Arch Hike **Only**, Sunday, October 8

Fee(s) I am paying are:

- \$30 for both hikes as a current IAFI Member
- \$50 for both hikes as a non-IAFI Member. **Become a Member On-Line at www.iafi.org**
- \$20 for both hikes as a teacher or a student

- \$20 for only Castle Lake Hike as a current IAFI Member
- \$30 for only Castle Lake Hike as a non-IAFI Member. **Become a Member On-Line at www.iafi.org**
- \$10 for only Castle Lake Hike as a teacher or a student; list institution/grade_____

- \$20 for only Giant Cave Arch Hike as a current IAFI Member
- \$30 for only Giant Cave Arch Hike as a non-IAFI Member. **Become a Member On-Line at www.iafi.org**
- \$10 for only Giant Cave Arch Hike as a teacher or a student; list institute/grade_____

A portion of the registration fee is used to finance the educational activities of the IAFI, Cheney-Spokane Chapter.

Last Name	First Name	Middle Name or Initial
Mailing Address	City/State	Zip Code
Email Address	Phone #	Cell Phone #
How did you learn about this event?	Are you a current member of the Ice Age Floods Institute?	Payment Check # and Amount
Identify Health Care Skills:	<input type="checkbox"/> I Yes Identify Chapter _____ <input type="checkbox"/> I NO	



LIABILITY RELEASE FORM

**Hike Field Trips
Saturday, October 7, 2017
And/or
Sunday, October 8, 2017**

**Sponsored By
Ice Age Floods Institute, Cheney-Spokane Chapter**

EACH person attending this field trip must read and sign this form.

I understand that the Ice Age Floods Institute’s field trips may involve inherent risks. I realize that the tour itinerary may include some walking on rocky terrain, and that other natural hazards do exist, that falls and collisions do occur, and that therefore injuries may result. I understand that it is my option whether or not to take part in any of the activities on the field trip. I therefore accept the risks to myself and others, and agree to use extreme caution at all times on this trip.

I understand that any costs for medical expenses incurred as a result of accidental injury or death while participating in the field trip WILL NOT BE PAID BY THE ICE AGE FLOODS INSTITUTE OR ANY OF ITS CHAPTERS.

I, the undersigned, intending to be legally bound hereby for myself, my heirs, executors and administrators, waive and release any and all rights and claims for losses and damages I may have against the Ice Age Floods Institute, its chapters, officers, board members, Chapter members, field trip leaders and volunteers, for any and all injuries suffered by me on this field trip. I attest and verify that I am participating at my own risk. This liability release is only intended for the use of the Ice Age Floods Institute, and does not absolve any other parties from their liability.

Signed: _____ Date: _____

(For minor(s)
Parents or guardian’s signature: _____ Date: _____

Please describe any allergies or medical concerns of which IAFI, Cheney-Spokane Chapter leaders and volunteers should be aware.

- (1) _____
- (2) _____
- (3) _____