

# Announcing AIPG's 45<sup>th</sup> Annual Meeting in Flagstaff, Arizona!

On behalf of AIPG, I am pleased to announce the 45<sup>th</sup> Annual Meeting will be held in Flagstaff, Arizona from September 20<sup>th</sup> through 24<sup>th</sup>, 2008. The 2008 meeting is in conjunction with the Arizona Hydrological Society's (AHS) 21<sup>st</sup> Annual Symposium and the 3<sup>rd</sup> International Professional Geology Conference. The organizing committee includes members from each organization. The organizing committee is co-chaired by Dr. David Best, Professor of Geology at Northern Arizona University (NAU), for AIPG and Dr. Aregai Teclé, Professor of Hydrology at NAU, for the Arizona Hydrological Society (AHS). Dr. Robert Font, for AIPG, is the chairperson of the 3<sup>rd</sup> IPGC. As you can see, this is a team effort and it will be a great meeting!

The world of geoscientists is a diverse community of professionals who work to discover and develop the resources needed to sustain and enhance life and contribute to each nation's economy, environment, public health and welfare. Exploration and responsible development of energy and mineral resources, and water resources are a few of the many contributions made by geoscientists. The many roles of geoscientists led to the development of the theme for this conference: Changing Waterscapes and Water Ethics for the 21<sup>st</sup> Century and the 3<sup>rd</sup> IPGC theme of Global Geoscience Practice, Standards, Ethics, and Accountability. The conference includes a broad range of topics proposed for the presentations of technical talks and poster sessions. The topics include: artificial recharge, aquifer restoration, border conflicts, forest watershed management, groundwater issues and ethics, human vs. ecosystem needs, land subsidence, professional ethics, Southwest water policy issues, surface water – groundwater issues, tribal water practices, urban and rural water policies and practices, water law, water use and water quality of mining operations, and water ethics in a changing global climate. The concurrent 3<sup>rd</sup> IPGC technical sessions include: Training, Credentials, and Continuing Professional Development of the Global Professional Geoscientist, Professional Ethics and the Global Geoscientist and Expanding International Influence and Reach; Overcoming Challenges and Mapping Successful Strategies. Please be sure to look at the Call for Abstracts for the complete list of these timely topics and check the web site for additional information.

We have planned an exciting meeting with two days of technical sessions, several pre- and post- conference informative and instructional workshops, and several days with field trip opportunities to explore the geology and enjoy the scenery of northern Arizona. The welcoming reception and technical sessions will be held at the new High Country Conference Center on the campus of NAU in the city of Flagstaff. This state-of-the-art facility offers spacious meeting rooms and reception areas with spectacular views of the San Francisco Peaks. The field trips include the Grand Canyon, Fossil Creek, Flagstaff area, Walnut Canyon and Lake Mary, the red rocks of Sedona, Jerome mining district, Montezuma's Castle and Well, Meteor Crater, Sunset Crater and Wupatki. And, we have planned several social functions featuring southwestern entertainment at the Radisson Hotel, at the High Country Conference Center, and at the Museum of Northern Arizona.

Flagstaff is a wonderful location for our meeting. It is the gateway to the Grand Canyon and so many other spectacular geologic and cultural sites. Walking in Flagstaff is quite enjoyable with the historic area and shopping located close to the Radisson Hotel (the conference headquarters) and the nearby High Country Conference Center. The NAU campus is so picturesque and the San Francisco Peaks dominate the view.

So, come to Flagstaff, Arizona, for the AIPG 45<sup>th</sup> Annual Meeting!!!!

Barbara Murphy CPG-06203  
AIPG Arizona Section President 2008  
General Chairperson AIPG/AHS/3<sup>rd</sup> IPGC Conference

# Welcome to Flagstaff!

I echo Barbara Murphy's welcome to Flagstaff and to the 3IPGC!

The AIPG is delighted to have the opportunity to organize and co-host this important meeting and is honored to have your countries, organizations and representatives as part of the exciting venue. We also welcome the opportunity to give you a taste of the American West and to showcase some of our breathtaking geological features. We certainly hope to follow in the tradition of excellence set forth during our previous two meetings in Spain and the UK, where our local hosts (ICOG and GeolSoc) performed so admirably.

As Barbara pointed out, a great deal of effort has gone into preparing this conference. We have selected a truly outstanding geological location to hold this convention. We have worked hard to make the 3IPGC an up-to-the-minute professional gathering with expanded international and domestic participation.

The IPGC forums are used to outline issues affecting the geological profession and professional practice across domestic and international boundaries. The IPGC meetings are also opportunities to exchange ideas on how to solve geoscience-related problems at both regional and global scales. Specifically, the 3IPGC will showcase representation from professional organizations from the USA, Canada, Spain, Germany, Belgium, The Netherlands, Ireland, UK, Sweden, Australia and other countries.

This year, a special effort has been made to have representatives from as many different disciplines as possible within the field of the geosciences in order to address a variety of professional issues of importance to all. Topics to be discussed include:

- **Training, Credentials and Continuing Professional Development of the Global Professional Geoscientist**
  - Distance learning.
  - The practicality of professional credentials.
    - Professional titles as passports.
  - CPD compliance.
  - Training of the 21<sup>st</sup> century geological scientist.
    - Current and future topics; what we will need to know.
    - Interaction between academia and industry.
    - Attracting students to our profession.
- **Professional Ethics and the Global Geoscientist**
  - The professional geologist's role in the protection of the general public.
    - Consulting and licensure, ethics and society.
  - Review of professional international disciplinary procedures.
    - Procedures, systems and actions.
- **Expanding International Influence and Reach; Overcoming Challenges and Mapping Successful Strategies**
  - Societal benefits of geology; how geology can help in social development.
    - Mineral resources and mining.
    - Fulfilling global energy needs.
    - Geology and the world's water supply.
    - Geologic mapping; the foundation of development.
  - Effectively communicating our message.
    - Geology and politics.
    - Geological legislation: helping the change to happen.
    - Natural hazards in planning policies: Global examples.
  - Great contributions of geology to mankind.
    - Geological Heritage: past, present and future.
  - Geological professional associations: role and global experiences.

We look forward to seeing you in Flagstaff! We will do all within our power to make this a memorable experience for you and look forward to the honor of your presence!

Robert Font, CPG-03953  
3IPGC Chairman  
2005 AIPG National President

*Photo by Larry Fellows*

**PROGRAM**

**Wednesday, September 17, 2008**

9:00 am Depart	3-Day Backpack Trip (9/17-9/19)
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**Saturday, September 20, 2008**

7:00 am - 5:00 pm	Registration at Radisson
7:00 am - 8:00 am	AIPG - Executive Committee Breakfast
8:00 am - 12:00 pm	AIPG - Executive Committee Meeting
12:00 pm - 1:00 pm	AIPG - Foundation Luncheon
1:00 pm - 4:00 pm	AIPG - Advisory Board Meeting
4:00 pm - 5:30 pm	AIPG - Joint Executive Committee Meeting and Business Meeting
8:00 am - 5:00 pm	Field Trip - San Francisco Volcanic Field
8:00 am - 5:00 pm	Field Trip - Lake Mary/Walnut Creek Watershed
9:00 am - 4:00 pm	Workshop - Writing for the Reader: Strategies for Communicating Technical Information Effectively
9:00 am - 4:00 pm	Workshop - Water Education - Project WET
9:00 am - 4:00 pm	Workshop - GIS I - Introduction to ArcGIS for the Earth Scientist

**Sunday, September 21, 2008**

7:00 am - 5:00 pm	Registration at Radisson Hotel
12:00 pm - 8:00 pm	Registration at High Country Conference Center
12:00 pm - 4:30 pm	Workshop - GIS II - Introduction to ARC Hydro
12:00 pm - 4:30 pm	Workshop - Students, Your First Steps in the Profession and the Future
2:00 pm - 5:00 pm	AESE - Board Meeting
7:00 am - 5:00 pm	Field Trip - Fossil Creek
8:00 am - 5:00 pm	Field Trip - Grand Canyon/South Rim
8:00 am - 5:00 pm	Field Trip-Sunset Crater/Wupatki
5:00 pm - 6:00 pm	AHS - Foundation Board Meeting
6:00 pm - 8:00 pm	Welcome Reception
6:00 pm - 8:00 pm	Exhibit Area Open

**Monday, September 22, 2008**

7:00 am - 6:00 pm	Registration at Radisson Hotel
7:00 am - 6:00 pm	Registration at High Country Conference Center

**Monday, September 22, 2008 (continued)**

7:00 am - 8:00 am	AESE - Surveys Breakfast Meeting
7:00 am - 9:00 am	AIPG - Past President's Breakfast
8:30 am - 5:30 pm	AESE - Sessions
8:30 am - 10:00 am	Plenary Session/3 <sup>rd</sup> IPGC
8:00 am - 5:00 pm	Exhibits Open
10:00 am - 5:00 pm	Technical Sessions/3 <sup>rd</sup> IPGC
11:30 am - 1:00 pm	AESE -Business Meeting Luncheon
12:00 pm - 1:00 pm	AHS - Awards Luncheon
5:00 pm - 6:00 pm	AHS - Membership Meeting
8:00 am - 5:00 pm	Field Trip - Grand Canyon Sightseeing
8:00 am - 5:00 pm	Field Trip - Jerome Mining District/Sedona
6:00 pm - 8:00 pm	Dinner and Cultural Entertainment Event at Radisson

**Tuesday, September 23, 2008**

7:00 am - 6:00 pm	Registration at Radisson Hotel
7:00 am - 4:00 pm	Registration at High Country Conference Center
7:00 am - 8:00 am	AESE - Freelancer's Breakfast
8:00 am - 3:00 pm	Exhibits Open
8:00 am - 5:00 pm	Technical Sessions/3 <sup>rd</sup> IPGC
8:30 am - 5:30 pm	AESE - Sessions
12:00 pm - 1:00 pm	Luncheon with Speaker
8:00 am - 5:00 pm	Field Trip - Sedona
8:00 am - 5:00 pm	Field Trip - Meteor Crater
6:30 pm - 8:30 pm	AESE - Awards Banquet
6:30 pm - 8:30 pm	Reception/Awards at the Museum of Northern Arizona

**Wednesday, September 24, 2008**

8:00 am - 9:00 am	Registration at Radisson Hotel
7:00 am - 8:30 am	AESE - Board Meeting
8:30 am - 4:00 pm	Workshop - Important Areas of Law-What Does the Future Hold?
8:00 am - 5:00 pm	Field Trip - Grand Canyon/South Rim
8:00 am - 5:00 pm	Field Trip - Flagstaff's Water Supplies: Past, Present, and Future
8:00 am - 5:00 pm	Field Trip - Montezuma Castle National Monument and Well
9:00 am Depart	3-Day Backpack Trip (9/24-9/26)



Photo by Larry Fellows

# AIPG/AHS/3<sup>rd</sup> IPGC 2008 Symposium September 20-24, 2008 Flagstaff, Arizona

## Field Trips

### 3-Day Backpack Trip

**Date:** Wed., Sept 17<sup>th</sup> to Fri., Sept 19<sup>th</sup> or  
Wed., Sept 24<sup>th</sup> to Fri., Sept 26<sup>th</sup>  
**Time:** Depart at 9:00 am  
**Cost:** \$275/\$345 (includes box lunch and beverages)  
**Leader:** Dave Palmer, CPG-09960

There is no better way to experience the geology of the Grand Canyon than to view it from the bottom up. This 3-day backpacking trip will examine the geologic formations that display 1.7 billion years of earth's history, from the Precambrian metamorphic basement rocks at the canyon bottom along the Colorado River to the Permian sedimentary rocks exposed on the canyon rim. On Day 1 we will backpack down 4.5 miles to Indian Garden campground (3 to 4 hours), stopping along the way to study upper Paleozoic rocks. After making camp and unloading our gear, we will have an evening meal, then hike 3 miles to Plateau Point (3 hours round trip) to an overlook of the river below to discuss the geologic history of the Grand Canyon area and view the sunset, weather permitting. On Day 2, after breakfast we will hike 5.5 miles down to the river and Phantom Ranch, studying the lower Paleozoic and basement rocks along the way. After lunch at the river we will hike back up to camp at Indian Garden (8 hours round trip). On Day 3, we will backpack out of the canyon (3 to 4 hours). Dave Palmer will lead the field trip, with logistical support and a guidebook provided by the AIPG Arizona Section.



Photo by Larry Fellows

The trek into and out of the Grand Canyon is strenuous and requires participants to be in good physical condition and be able to hike steep, narrow trails in extreme conditions while carrying a 30(+)-pound pack. The elevation at the rim is 7,000 feet, with less oxygen and cooler temperatures (70 to 80°F), while at the canyon bottom it can be 100°F in September. Participants will be provided all basic camping equipment including pack, tent, sleeping bag and pad. Meals and cooking equipment will be provided and prepared by a support crew. Participants will need to provide and carry personal items including clothing, water, camera and guidebook, and wear sturdy hiking boots. Detailed information will be provided to each participant before the trip. This trip will take place prior to the meeting and also after the meeting.

### San Francisco Volcanic Field

**Date:** Saturday, September 20<sup>th</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$100/\$150 (includes box lunch and beverages)  
**Leader:** Dr. Michael Ort

The San Francisco volcanic field is located north of Flagstaff, Arizona. It contains some 600 cinder cones, as well as five large composite volcanoes. This geologic field

trip will take a look at some of the youngest cinder cones of the field, in the northeast sector. We will start at Sunset Crater National Monument, which contains a colorful cinder cone and crater that erupted into part of what was likely the most agriculturally productive sector of the Flagstaff area. This eruption occurred about AD 1083 and eventually led to new agricultural techniques and settlements at previously uninhabited (on a year-round basis) altitudes to the north. The field trip leader, Dr. Michael Ort of Northern Arizona University, has worked extensively on the interactions of humans with this volcano, so he will discuss these in detail, as well as explaining the eruption story. We will then continue through Wupatki National Monument, looking at the countryside to which people moved and examine the well-preserved Wupatki ruins. We will also stop at Doney Mountain, a ~70,000-year-old cinder cone that erupted along a fault, producing a fissure eruption with several cones. We will then head to SP Crater, a very young cinder cone with a fantastic lava flow field to explore. Finally, if time permits, we will go to Colton Crater, a large cinder cone that was erupting and building when groundwater gained access to its plumbing. This water flashed to vapor and provided the force for some large explosions, blowing out a large and spectacular crater. Some of this field trip includes short hikes in rugged, high desert terrain, and sturdy hiking boots are recommended.

### Lake Mary/Walnut Creek Watershed

**Date:** Saturday, September 20<sup>th</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$100/\$150 (includes box lunch and beverages)  
**Leader:** Paul Whitefield

This geologic and hydrologic field trip will provide an integrated overview of the geology, hydrology, and land use history in the Lake Mary/Walnut Creek watershed, along with post-settlement changes in the ponderosa forest, watershed function, and Walnut Canyon riparian corridor. We'll drive through the scenic ponderosa forest of the Mogollon Highlands region southeast of Flagstaff, with the San Francisco Peaks lying on the northern horizon and reflecting in several lakes along the way. The trip will first visit Mormon Lake, the largest natural lake in Arizona, created as lobes of basalt from the Mormon Mountain volcanic field encircled to form a basin.



Photo by Larry Fellows

We will stop in areas that demonstrate ponderosa pine forest changes over the last 140 years, and discuss effects on watershed function. The trip then returns to Upper Lake Mary and Lower Lake Mary, man-made reservoirs constructed in 1941 and 1904, respectively. The lakes fill a narrow graben, bounded on the northeast by the Lake Mary Fault, with Anderson Mesa on the up-thrown side. The surface bedrock in the graben is fractured and jointed Kaibab Limestone,



Photo by Larry Fellows

## Field Trips

(Lake Mary/Walnut Creek Watershed cont.)

with leakage along the fault greatly compromising the ability of the lower lake to hold water. After lunch along one of the lakes, we will hike about 3 miles near Walnut Creek, from the base of the Lower Lake Mary Dam to where the creek enters Walnut Canyon. The canyon walls quickly rise to 400 feet, with the Kaibab Limestone, Toroweap Formation, and Coconino Sandstone exposed from top to bottom. During regional uplift, the sinuous Walnut Creek stream course was captured in the erosionally resistant limestone, and the modern topography reveals strong geologic structural control by local faults and fractures. The natural flow regime of Walnut Creek was disrupted after the Upper Lake Mary Dam was constructed, with effects on the stream channel and riparian vegetation. Locally perched waters in stream terraces and leakage in the sandstone at the bottom of the canyon appear to be sustaining pockets of riparian deciduous trees, but some species are likely in long-term decline. The City of Flagstaff, Coconino

National Forest, and National Park Service recently agreed to explore ways to maintain the integrity of the lakes while increasing the possibility of flows into Walnut Creek. A range of preliminary ideas to accomplish these objectives will be discussed. The 3-mile hike along Walnut Creek will involve moderate exertion at an elevation of 7,000 feet, requiring descent and ascent of about 200 vertical feet of switchbacks at two locations along the trail. Field trip leader is Paul Whitefield, who is a Natural Resource Specialist with the National Park Service.

### Fossil Creek

**Date:** Sunday, September 21<sup>st</sup>  
**Time:** 7:00 am to 5:00 pm  
**Cost:** \$100/\$150 (includes box lunch and beverages)  
**Leader:** Dr. Charlie Schlinger, CPG-09554 and Dr. Abe Springer

Fossil Creek, once one of Arizona's premier water-courses, had its flow diverted for hydropower generation beginning in the early 20<sup>th</sup> century. A feat of construction for the era, the facility was prominent in the history of Arizona's Verde Valley mining centers and, during a time of drought in the late 1920s, even provided electricity for Phoenix. In 2005, Arizona Public Service (APS) commenced decommissioning of the Childs-Irving hydroelectric facilities. At that time, the full base flow of nearly 46 cfs was restored to 14 miles of creek below the Fossil Springs, which supply the near-constant majority of the Fossil Creek base flow from a series of discrete vents in the Naco Formation. The Fossil Springs flow is supersaturated with respect to calcium carbonate and a travertine system is actively building characteristic step pool morphology. This hydrologic trip will include an 8-mile round-trip hike into the Fossil Springs, a visit to the historic Irving power plant, along with overviews of native fish restoration efforts, modern day concerns regarding ground water resource development in adjoining communities, and aspects of the ongoing facility decommissioning. Time permitting, we will visit the Clover Springs stream restoration site, a large-scale channel stabilization and re-vegetation project of an upland wet meadow. Field trip leaders are Dr. Charlie Schlinger and Dr. Abe Springer of Northern Arizona University.

**Reserve Your Hotel Room Now**

**Radisson Woodlands Hotel**  
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Meeting Code-Grand Canyon 2008  
To receive discounted rates

Sponsored by the AIPG Foundation and AIPG

45th Annual Meeting in Flagstaff  
September 21–23, 2008

Make plans to attend the silent auction at the 45th Annual Meeting in Flagstaff, AZ. All proceeds will be donated and split equally between the AIPG Foundation and AIPG to support educational programs and internships. We need your donations to make this event a success!

Anticipated items that you will be able to bid on are:

- Rock and mineral specimens
- Fossils
- Gold coins
- Gift certificates
- Books
- Maps
- Geological items and more

We are looking for volunteers to assist with the auction.

Please contact Ray Talkington (rtalkington@geospherenh.com) or Bill Siok (wsiok@aipg.org) to make your donation



All contributions to the Silent Auction are tax deductible.

# AIPG/AHS/3<sup>rd</sup> IPGC 2008 Symposium September 20-24, 2008 Flagstaff, Arizona



Photo by Larry Fellows

## Field Trips

### Grand Canyon/South Rim

**Date:** Sunday, September 21<sup>st</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$100/\$150 (includes box lunch and beverages)  
**Leader:** Paul Lindberg, CPG-06344

This field trip is designed for geologists and will examine the geologic origin and history of the Grand Canyon, arguably the world's premier location for exposure of rocks that display the geologic record. There are three geology field trips planned, and the itinerary may vary slightly depending on the field trip leader. [There is also a non-technical field trip on Monday that is recommended for non-geologists.]



Photo by Larry Fellows

This field trip will travel north to Cameron and a look at the Little Colorado River gorge. We will then travel west to view the Kaibab monocline and the deepening of the Little Colorado River gorge. When we enter Grand Canyon National Park our first stop will be at Desert View overlook, where a 3-story tower provides a spectacular view to the north (up the canyon) and west (down the canyon). The trip will continue west to Lipan Point and a short hike to a vantage point to discuss the geologic evolution of Grand Canyon, including a take-apart geologic model. This stop will include a lunch break (box lunch provided). We will then continue west and view roadside view points, and take a one mile hike to Shoshone Point over easy terrane. The final stop will be at Mather Point to view the Great Unconformity, and/or Hopi Point to view a patented (private) uranium mine that operated inside the park until 1965. The trip includes a hike along the rim, which is at an elevation of 7,000 feet. Sturdy hiking shoes, hat, sunscreen, and cameras are recommended. Field trip leader on Sunday is Paul Lindberg, AIPG geologist from Sedona.

### Sunset Crater/Wupatki

**Date:** Sunday, September 21<sup>st</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$80/\$120 (includes box lunch and beverages)  
**Leader:** Michael O'Hara,  
Erick Weiland, CPG-06892, and  
Pam Palmer

This is a field trip designed for those who wish to experience the volcanic scenery of northern Arizona and explore ancient Anasazi and Sinagua ruins. The field trip will travel by bus north of Flagstaff on Highway 89A, then east to Sunset Crater National



Monument. There will be a brief talk on both the geology and the history of this geologically young region. We will have the opportunity to walk among recent lava flows and cinder deposits. The bus ride will continue through the many volcanic craters and cinder cones of scenic San Francisco volcanic field to reach Wupatki National Monument. There will be a walking tour of the multi-room ancient ruins, ball court, and other features. The tour will include a history of the anthropology and archaeology of the area. After leaving Wupatki, the next stop will be for lunch at the world renowned Cameron Trading Post, famous for its huge Navajo tacos. The trading post also offers an opportunity to shop for gifts of Native American jewelry, pottery and art. The trip includes a couple of short hikes at high elevations (about 7,000 feet). Sturdy hiking shoes, hat, sunscreen and cameras are recommended. The field trip leader is Pam Palmer, with technical guides Erick Weiland, a geologist with Malcolm Pirnie; and Michael O'Hara, an anthropologist with Arizona State University.

### Grand Canyon Sightseeing

**Date:** Monday September 22<sup>nd</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$100/\$150 (includes box lunch and beverages)  
**Leader:** Dr. Larry Fellows, CPG-04447  
and Pam Palmer

This field trip is designed for non-geologists and will primarily be a guided sightseeing tour of the Grand Canyon and vicinity. The trip will include a general discussion of the geology within the context of the spectacular scenery of the Colorado Plateau region. The field trip will travel northwest out of Flagstaff through the inactive volcanoes and cinder cones of the San Francisco volcanic field and onto the Coconino Plateau. At the Grand Canyon we will first stop at the new visitor center for an overview of the canyon's attractions. There are many viewpoints, turnouts and scenic views along the south rim. The field trip leaders will select several stops to showcase the awesome views of the canyon that change during the day depending on lighting conditions. Suggested stops include Hopi Point, Mather Point, Lipan Point and Desert View, where a 3-story tower offers a panoramic view of the eastern half of the canyon. There will be time at each stop for photographs. The trip may include a short hike along the rim, which is at an elevation of 7,000 feet. One of the scenic stops will include a box lunch provided as part of the trip. Time permitting, we will stop at an overlook of the Little Colorado River gorge east of the canyon. The final stop will be at world-famous Cameron Trading Post, which offers an opportunity to shop for gifts of Native American jewelry, pottery and art. Sturdy hiking shoes, hat, sunscreen and cameras are recommended. Field trip leaders are: Dr. Larry Fellows, retired Arizona State Geologist, (and an excellent resource for techniques on taking landscape photographs); and guest trip leader, Pam Palmer.



Photo by Larry Fellows

## Field Trips

### Jerome Mining District/Sedona

**Date:** Monday, September 22<sup>nd</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$100/\$150 (included box lunch & beverages)  
**Leader:** Paul Lindberg, CPG-06344

This geologic field trip begins on the Colorado Plateau and travels southwest into the Transition Zone to the Basin and Range Province. The trip leaves Flagstaff and stops at the Oak Creek Canyon overlook for an orientation to the local geology. Dropping down into Oak Creek Canyon, we will stop to observe ancestral and modern phases of faulting that have shaped the canyon. The third stop is in Sedona for a view of the Mogollon Rim and red rock cliffs, which mark the edge of the Colorado Plateau. In Sedona there will be a short hike to Devils Kitchen sinkhole, which is a modern collapse feature underlain by a solution cave in the subsurface Redwall Limestone. The trip continues southwest and stops at Dry Creek bridge to view one of many Verde graben faults characteristic of the transition zone. We will stop in the Verde Valley to eat a box lunch and a geologic discussion of the graben faults. The field trip will climb up to Jerome, a small former mining town built on a steep mountainside, and visit the mining museum at the Jerome State Historic Park. The next stop will be next to the United Verde open pit where the geologic history of the 1,738.5 million-year-old Early Proterozoic world class copper-zinc-gold-silver ore deposits will be explained. An interactive fault block model will help demonstrate the geology of this volcanogenic massive sulfide ore deposit. The final stop in Deception Gulch will visit Precambrian rhyolite host rock. Because some hiking is planned, we recommend sturdy hiking shoes, hat, sunscreen, and camera. Field trip leader is Paul Lindberg, AIPG geologist from Sedona.



Photo by Larry Fellows

### Sedona/Sedona with Jeep Tour

**Date:** Tuesday, September 23<sup>rd</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$80/\$120  
\$155/\$200 (with optional Jeep Tour)  
(lunch on your own)  
**Leader:** Steve Maslansky, CPG-04431  
and Pam Palmer

This is a non-geologic field trip designed for those who wish to relax and experience the famous red rock scenery of northern Arizona. The field trip will travel by bus down the winding road of Highway 89A through scenic Oak Creek Canyon to beautiful Sedona, the jewel of Arizona. In Sedona, for those not registered for the jeep tour, you will be free to explore the town. For those registered for the pink jeep tour, you

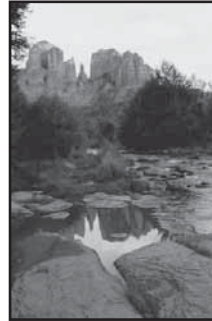


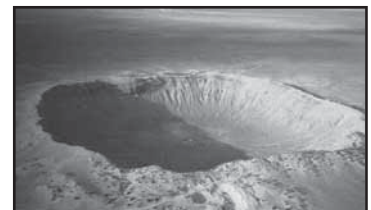
Photo by Larry Fellows

will enjoy a 2-hour tour up Schnebly Hill and around the red mesas and buttes. The morning jeep tour will offer a majestic, panoramic view of the town and the surrounding area, with plenty of photographic opportunities. There will be a brief talk on both the geology and the history of this beautiful red rock country. Upon returning to Sedona, participants are free to explore the town. Lunch will be on participants' own in one of the many wonderful restaurants. The two main art gallery and shopping areas are connected by a free town trolley: the Uptown area, where the jeep tours originate; and the always popular Tlaquepaque (pronounced tuh LOCK ee pock ee) at Los Abrigados Resort, which resembles a Mexican village. There are many art galleries and novelty shops accessible by walking or by riding the trolley. On the way back to Flagstaff we will stop at the scenic Oak Creek Canyon overlook, where local Navajo artisans have tables set up to display authentic Native American jewelry, pottery, and other crafts for sale. Field trip leaders are Steve Maslansky, AIPG geologist from Prescott, and guest field trip coordinator Pam Palmer.

### Meteor Crater

**Date:** Tuesday, September 23<sup>rd</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$100/\$150 (included box lunch & beverages)  
**Leader:** Dr. Carleton Moore  
and Dr. Dale Nations, CPG-06364

Meteor Crater, located about 45 miles east of Flagstaff, is recognized as the premier meteor impact crater on the planet. It was formed about 50,000 years ago. In the 1960s it was used by the Apollo astronauts as a training location for moon walks. This geologic field trip will examine the origin and history of Meteor Crater. On the way to the crater we will stop for an overview of the San Francisco volcanic field and a narrative of geology along the route. Upon arrival at Meteor Crater, we will walk along the rim and hear a discussion of the crater's origin and history, including many attempts to locate fragments of the meteor. This is a relatively easy hike on a well-traveled trail. Box lunch will be provided at the crater with an informal discussion during this lunch. The trip will include a visit to the Museum of Space Exploration (one hour) and a historical film. Field trip leaders are Dr. Carleton Moore, and professor emeritus Dr. Dale Nations, Northern Arizona University.



# AIPG/AHS/3<sup>rd</sup> IPGC 2008 Symposium September 20-24, 2008 Flagstaff, Arizona



Photo by Larry Fellows

## Field Trips

### Grand Canyon/South Rim

**Date:** Wednesday, September 24<sup>th</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$100/\$150 (included box lunch & beverages)  
**Leader:** Dr. Ron Blakey

This field trip is designed for geologists and will overview the spectacular geology of Grand Canyon as seen from the South Rim. There are three geology field trips planned, and the itinerary may vary slightly depending on the field trip leader. [There is also a non-technical field trip on Monday that is recommended for non-geologists.] This field trip will travel from Flagstaff northwest through the San Francisco volcanic field and enter the park at the South Entrance Station. We will visit several viewpoints in the Grand Canyon Village area. There



Photo by Larry Fellows

and view the Grandview Point, Moran Point, and Lipan Point. One of these stops will include a lunch break (box lunch provided). Our last stop in the canyon will be at Desert View overlook, where a 3-story tower provides a spectacular view to the north (up the canyon) and west (down the canyon). We will leave the park at the East Entrance with a drop in elevation at the Kaibab monocline. We may stop at the Little Colorado River overlook near Cameron, time permitting. The trip includes one or more short hikes along the rim, which is at an elevation of 7,000 feet. Sturdy hiking shoes, hat, sunscreen and cameras are recommended. The field trip leader on Wednesday is Dr. Ron Blakey, Northern Arizona University geology professor.

### Flagstaff's Water Supplies: Past, Present and Future

**Date:** Wednesday, September 24<sup>th</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$100/\$150 (included box lunch & beverages)  
**Leader:** Dr. Abe Springer and  
Dr. Charlie Schlinger, CPG 09554

Since Flagstaff was established in the 1880s it has relied on a combination of surface-water and groundwater sources for a water supply. The first sources of water for the City were from springs and later from reservoirs. In the 1950s, in response to a long-term drought, the City drilled its first deep boreholes to tap the deep regional aquifers. In the 1990s in response to increasing growth, the City developed reclaimed water as a

new supply and launched a new campaign to explore for additional favorable locations for deep wells to relieve pressure on existing wellfields. In the past few years, the City has begun looking for solutions to water supplies for anticipated growth out to the year 2050. This hydrogeologic and hydrologic field trip will discuss these historical sources for the City, their responses to climate change, and the options the City and region have for the future and all of the innovated science, management, and planning which have made the City and region a model for other communities to follow. Field trip leaders are Dr. Abe Springer and Dr. Charlie Schlinger of Northern Arizona University.

### Montezuma Castle National Monument and Montezuma Well

**Date:** Wednesday, September 24<sup>th</sup>  
**Time:** 8:00 am to 5:00 pm  
**Cost:** \$80/\$120 (included box lunch & beverages)  
**Leader:** Steve Maslansky, CPG-04431  
and Pam Palmer

This is a non-geologic field trip designed for those who wish to experience the scenery of northern Arizona and explore ancient Sinagua ruins. The field trip will travel by bus south of Flagstaff on Interstate 17 to Montezuma Castle National Monument. The monument protects a 20-room ancient site. There will be a brief talk on both the archaeology and history of this region and an opportunity to walk around the monument. The bus ride will continue to Montezuma Well, which is separated from but a part of the monument. The well occupies an unusual geologic formation and water enters the well at more than 1 million gallons per day. The feature is still used for farmland irrigation. A lunch stop with box lunches will be provided at Montezuma Well. The field trip will return to Flagstaff via

Sedona and Oak Creek Canyon.

Many photo opportunities will present themselves on that route, including Bell Rock. We also will stop at the scenic Oak Creek Canyon overlook, where local Navajo artisans have tables set up to display authentic Native American jewelry, pottery, and other crafts for sale. The trip may include a couple of short hikes at moderate elevations (about 5,000 feet). Sturdy hiking shoes, hat, sunscreen, and cameras are recommended. Field trip leaders are Steve Maslansky, AIPG geologist from Prescott, and guest field trip coordinator Pam Palmer.



Photo by Larry Fellows

# AIPG/AHS/3<sup>rd</sup> IPGC 2008 Symposium September 20-24, 2008 Flagstaff, Arizona



Photo by Larry Fellows

## Workshops

### GIS I - Intro to ArcGIS for the Earth Scientist

**Date:** Saturday, September 20<sup>th</sup>  
**Time:** 9:00 am to 4:00 pm  
**Location:** Geospatial Research and Information Laboratory (GRAIL) at Northern Arizona University  
**Maximum:** Limited to 12 attendees  
**Cost:** \$175  
**CEU'S:** 0.7

Mark Manone will teach this introductory GIS class geared towards the earth scientist. The participants will learn how to build ArcGIS database and how to import maps and overlays. The course will be taught at the new GRAIL laboratory on the NAU campus. This state-of-the-art facility offers the participants the opportunity to work with the newest technology. A 1.5-hour lunch break will allow participants time to walk to the many restaurants in the area.

### Writing for the Reader: Strategies for Communicating Technical Information Effectively

**Date:** Saturday, September 20<sup>th</sup>  
**Time:** 9:00 am to 4:00 pm  
**Location:** Radisson Woodlands Hotel  
**Cost:** \$99 (lunch included)

This workshop will be taught by Nancy Riccio, Director of Plateau Technical Communication Services. Nancy is a writer, editor, and recovering hydrogeologist who specializes in developing watershed plans and other resource-management documents. Understanding how readers process information is your most valuable asset in writing effective reports, proposals, and papers. In this nuts-and-bolts workshop, Nancy will cover basic information-processing principles and analyze structural components of language used in typical hydrology reports. You'll learn how to "embrace" verbs, use active and passive voice, and break information into manageable chunks that provide a clear path for readers. You'll also learn some strategies for organizing reports and targeting a variety of audiences. Best of all, you will apply these strategies to writing samples from actual reports through hands-on exercises. Each participant will receive a workbook that includes an industry-specific style guide.

### Water Education Workshop - Project WET

**Date:** Saturday, September 20<sup>th</sup>  
**Time:** 9:00 am to 4:00 pm  
**Location:** Radisson Woodlands Hotel  
**Maximum:** Limited to 30 attendees  
**Cost:** \$25 (lunch included)

The focus of this workshop is to provide educators with the tools to teach the Project WET Arizona Conserve Water Curriculum.

This hands-on workshop includes focus areas on drought, water conservation, technology for water conservation, and teaching to the state standards. Manuals will be provided to the participants.

### GIS II - Intro to Arc Hydro

**Date:** Sunday, September 21<sup>st</sup>  
**Time:** Noon to 4:30 pm  
**Location:** Geospatial Research and Information Laboratory (GRAIL) at Northern Arizona University  
**Maximum:** Limited to 12 participants  
**Cost:** \$100  
**CEU'S:** 0.5

Mark Manone will teach ArcGIS users the Arc Hydro program. The participants will learn the basic principals behind the Arc Hydro package and to manage water resources using the database and modeling tools. The course will be taught at the new GRAIL laboratory on the NAU campus. This state-of-the-art facility offers the participants the opportunity to work with the newest technology.

### Students, Your First Steps in the Profession and the Future

**Date:** Sunday, September 21<sup>st</sup>  
**Time:** Noon to 4:30 pm  
**Location:** Radisson Woodlands Hotel  
**Cost:** \$20

Robert A. Stewart, Ph.D., CPG and Raymond W. Talkington, Ph.D., CPG will lead this short course. Stewart and Talkington each has over 25 years' geological experience in mineral exploration, academic teaching and research, and environmental management. Both leaders presently hold senior managerial positions with their respective employers, and are responsible for interviewing and hiring geologists at varying levels of experience.

The purpose of this short course is to introduce advanced undergraduate and graduate geoscience students to (1) various post-graduate employment opportunities; (2) resumes, cover letters, transcripts, and references; (3) interviewing strategies; and (4) expectations of newly-hired geologists.

The short course material is presented using PowerPoint slides. The tone of the short course is informal to encourage discussion between workshop leaders and the audience. Supplementary reprints from a variety of sources are provided to expand on various aspects of the presentations.

# AIPG/AHS/3<sup>rd</sup> IPGC 2008 Symposium September 20-24, 2008 Flagstaff, Arizona



Photo by Larry Fellows

## Workshops Cont.

### Important Areas of Law – What Does the Future Hold?

**Date:** Wednesday, September 24<sup>th</sup>  
**Time:** 8:30 am to 4:00 pm  
**Location:** Radisson Woodlands Hotel  
**Cost:** \$99 (lunch included)  
**CLE** Credits may be available

This workshop will focus on where the law field is going in regards to Southwestern US Water, Climate Change, Environmental, and Mining disciplines. Experts in each area of law will present where they see the field is headed given the ever changing practices and regulations.

## Social Events

### Welcome Reception

**Dates:** Sunday, September 21<sup>st</sup>  
**Time:** 6:00 pm to 8:00 pm  
**Cost:** Included with Registration  
**Location:** High Country Conference Center

This is a chance to get to know your fellow colleagues attending the annual meeting. This Sunday evening reception is the perfect opportunity to renew acquaintances, meet new people, visit exhibitors, and view the student posters. The reception will feature a cash bar and hors d'oeuvres.

### Dinner and Cultural Entertainment Event

**Dates:** Monday, September 22<sup>nd</sup>  
**Time:** 6:00 pm to 8:00 pm  
**Cost:** \$60/\$75  
**Location:** Radisson Woodlands Hotel

Monday evening will be a pleasant one in the company of friends and colleagues. The festivities will begin with a general reception and banquet. The evening will conclude with a remarkable Dineh (Navajo) cultural demonstration. This event is intended to be informal, relaxing, and an opportunity for all attendees to meet and socialize in a convivial atmosphere, as well as catch a glimpse of Native American cultural history.

### Museum Reception/Awards

**Dates:** Tuesday, September 23<sup>rd</sup>  
**Time:** 6:30 pm to 8:30 pm  
**Cost:** \$60/\$75  
**Location:** Museum of Northern Arizona

The Tuesday evening reception will be held at the Museum of Northern Arizona. The evening will open with a brief Awards Ceremony during which AIPG will recognize members who have made extraordinary contributions to AIPG and the profession. The reception itself will include superb hors d'oeuvres, refreshments, a cash bar and an opportunity to tour the exqui-

## Register Online

### AIPG 2008 Annual Meeting Flagstaff, Arizona

[www.org/2008/AIPG-AHS-3IPGC.htm](http://www.org/2008/AIPG-AHS-3IPGC.htm)

site museum and to peruse the excellent artwork available for sale in the extensive giftshop.

Founded in 1928 as a community effort by a group of Flagstaff citizens, the Museum of Northern Arizona (MNA) is a private, nonprofit institution that was originally established as a repository for Native American artifacts and natural history specimens from the Colorado Plateau. The original founders, zoologist Dr. Harold S. Colton and artist Mary-Russell Ferrell Colton, were dedicated to preserving the history and cultures of northern Arizona.

Over its 75-year history in Flagstaff, MNA has evolved into a regional center of learning with collections, exhibits, educational programs, publications, and research projects that serve more than 100,000 people each year. As the only accredited museum within 150 miles of Flagstaff and the only natural history museum within 250 miles, the Museum of Northern Arizona plays a vital role as interpreter of the Colorado Plateau.

To enhance the lives of those who share an interest in and love for the natural and cultural heritage of the Colorado Plateau, the Museum of Northern Arizona has created a dynamic and ever-evolving community where people of all ages, interests, and cultures come to build relationships with each other on a forested, nearly 225-acre intergenerational campus.



MNA's logo is an adaptation of a Hopi design on this Nampeyo pottery jar purchased by the Coltons in 1912. Dr. Colton sketched a simplified design from the jar, which had been created by the legendary potter Nampeyo. (Photo by Marc Gaede, 1973.)



# AIPG/AHS/3<sup>rd</sup> IPGC 2008 Symposium

Changing Waterscapes and Water Ethics for the 21<sup>st</sup> Century and  
Global Geoscience Practice, Standards, Ethics, and Accountability

September 20-24, 2008  
Flagstaff, Arizona, USA

## REGISTRATION FORM

NAME (Last)	(First)	(Middle Initial)	NAME FOR BADGE	Member of:	✓
				AIPG	
COMPANY/AFFILIATION			MEMBERSHIP NO. (if applicable)	AHS	
				AIPG/AHS (both)	
ADDRESS				AESE (AIPG)	
				CCPG (AIPG)	
CITY, STATE, ZIP CODE			COUNTRY	EFG (AIPG)	
				Other	
PHONE			E-MAIL ADDRESS		
*SPOUSE/GUEST NAME			NAME FOR SPOUSE/GUEST BADGE		

### FEES AND PAYMENT INFORMATION

ANNUAL MEETING REGISTRATION	On or By 6/30/08	7/1/08–8/31/08	After 8/31/08	Amount
<b>Full Registration</b>	\$380.00	\$425.00	\$495.00	\$
<b>Daily Registration</b> <input type="checkbox"/> Sat <input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tues <input type="checkbox"/> Wed	\$260.00	\$260.00	\$260.00	\$
<b>AESE Full Registration</b>	\$380.00	\$425.00	\$495.00	\$
<b>*Spouse/Guest</b> (Includes Registration Packet and Admission to Welcome Reception and Exhibits)	\$100.00	\$100.00	\$100.00	\$
<b>Student Full Registration</b>	\$25.00	\$25.00	\$25.00	\$
<b>Daily Student Registration</b> <input type="checkbox"/> Sat <input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tues <input type="checkbox"/> Wed	\$15.00	\$15.00	\$15.00	\$
<b>I Would Like to Pay for a Student's Full Registration</b>	\$25.00	\$25.00	\$25.00	\$
FIELD TRIPS (Must be Registered) (All field trips depart from the Radisson Hotel)	On or By 8/31/08	After 8/31/08	No. Attending	Amount
<b>3-Day Backpack Trip</b> (Weds., 9/17 to Fri. 9/19, Depart 9:00 am)	\$275.00	\$345.00		\$
<b>San Francisco Volcanic Field</b> (Sat., 9/20, 8:00 am – 5:00 pm)	\$100.00	\$150.00		\$
<b>Lake Mary/Walnut Creek Watershed</b> (Sat., 9/20, 8:00 am–5:00 pm)	\$100.00	\$150.00		\$
<b>Fossil Creek</b> (Sun., 9/21, 7:00 am – 5:00 pm)	\$100.00	\$150.00		\$
<b>Grand Canyon/South Rim</b> (Sun., 9/21, 8:00 am – 5:00 pm)	\$100.00	\$150.00		\$
<b>Sunset Crater/Wupatki</b> (Sun., 9/21, 8:00 am – 5:00 pm)	\$80.00	\$120.00		\$
<b>Grand Canyon Sightseeing</b> (Mon., 9/22, 8:00 am – 5:00 pm)	\$100.00	\$150.00		\$
<b>Jerome Mining District/Sedona</b> (Mon., 9/22, 8:00 am – 5:00 pm)	\$100.00	\$150.00		\$
<b>Sedona</b> (Tues., 9/23, 8:00 am – 5:00 pm)	\$80.00	\$120.00		\$
<b>Sedona with Jeep Tour</b> (Tues., 9/23, 8:00 am – 5:00 pm)	\$155.00	\$200.00		\$
<b>Meteor Crater</b> (Tues., 9/23, 8:00 am – 5:00 pm)	\$100.00	\$150.00		\$
<b>Grand Canyon/South Rim</b> (Weds., 9/24, 8:00 am – 5:00 pm)	\$100.00	\$150.00		\$
<b>Flagstaff's Water Supplies</b> (Weds., 9/24, 8:00 am – 5:00 pm)	\$100.00	\$150.00		\$
<b>Montezuma Castle and Well</b> (Weds., 9/24, 8:00 am – 5:00 pm)	\$80.00	\$120.00		\$
<b>3-Day Backpack Trip</b> (Weds., 9/24 to Fri. 9/26, Depart 9:00 am)	\$275.00	\$345.00		\$
WORKSHOPS			Amount	Amount
<b>Writing for the Reader: Strategies for Communicating Technical Information Effectively</b> (Sat., 9/20, 9:00 am – 4:00 pm)			\$99.00	\$
<b>Water Education – Project WET</b> (Sat., 9/20, 9:00 am – 4:00 pm)			\$25.00	\$
<b>GIS I – Introduction to ArcGIS for the Earth Scientist</b> (Sat., 9/20, 9:00 am – 4:00 pm) (0.7 CEU's)			\$175.00	\$
<b>GIS II – Introduction to Arc Hydro</b> (Sun., 9/21, Noon–4:30 pm) (0.5 CEU's)			\$100.00	\$
<b>Students, Your First Steps in the Profession and the Future</b> (Sun., 9/21, Noon – 4:30 pm)			\$20.00	\$
<b>Important Areas of Law – What Does the Future Hold?</b> (Weds., 9/24, 8:30 am – 4:00 pm)			\$99.00	\$

SOCIAL EVENTS/MEETINGS	On or By 8/31/08	After 8/31/08	No. Attending	Amount
AIPG Foundation Luncheon (Sat., 9/20, Noon – 1:00 pm)	\$30.00	\$40.00		\$
Welcome Reception (Sun., 9/21, 6:00 pm – 8:00 pm)	Included with Registration			\$
AIPG Past-Presidents Breakfast (Mon., 9/22, 7:00 am–9:00 am)	Invitation Only			\$
AESE Surveys Breakfast (Mon., 9/22, 7:00 am – 8:00 am)	\$25.00	\$35.00		\$
Dinner and Cultural Event (Mon., 9/22, 6:00 pm – 8:00 pm)	\$60.00	\$75.00		\$
AESE Freelancers Breakfast (Tues., 9/23, 7:00 am – 8:00 am)	\$25.00	\$35.00		\$
Museum Reception/Awards (Tues., 9/23, 6:30 pm – 8:30 pm)	\$60.00	\$75.00		\$
<b>DONATIONS TO FOUNDATIONS (Voluntary)</b>			<b>Suggested Amount</b>	<b>Amount</b>
AIPG Foundation			\$25.00	\$
AHS Foundation			\$25.00	\$
<b>TOTAL AMOUNT DUE</b>				<b>\$</b>

**Organization Meetings (see Program for Dates and Times) – Please Indicate if Attending**

	<u>Attending</u>		<u>Attending</u>
AIPG National Executive Committee Meeting (9/20)	yes / no	Welcome Reception (9/21)	yes / no
AIPG 2008 Advisory Board Meeting (9/20)	yes / no	AESE Business Meeting Luncheon (9/22)	yes / no
AIPG 2008-2009 Joint Executive Committee (9/20)	yes / no	AHS Membership Meeting (9/22)	yes / no

**Note**

Full Registration includes Welcome Reception, Technical Sessions, Exhibits, Student Poster Sessions, Continental Breakfast, Lunch, Refreshment Breaks, and Registration Packet.

I understand that by registering for this event, I release and agree to indemnify the American Institute of Professional Geologists (AIPG), the Arizona Hydrological Society (AHS), the 3<sup>rd</sup> International Professional Geology Conference (3<sup>rd</sup> IPGC) and the agents, officers, volunteers and employees of AIPG, AHS, 3<sup>rd</sup> IPGC from all liability for any loss, damage or injury sustained by me while involved in any way with the convention and its events including field trips except that each of AIPG, AHS, 3<sup>rd</sup> IPGC is not released from such liability to the extent the same is caused by its actual gross negligence or willful misconduct. I have read and understand this waiver and release.

I also understand that submission of this registration form gives AIPG the authority to utilize any photograph taken of me at the conference for conference related publicity (e.g., photo gallery on cd, web site, TPG, etc.). AIPG agrees not to use my likeness for any other purpose. Please contact Vickie Hill at AIPG if you DO NOT wish to have your image used.

## METHOD OF PAYMENT

TOTAL AMOUNT DUE \$ \_\_\_\_\_

**PLEASE CHECK METHOD OF PAYMENT**

- Check No. \_\_\_\_\_ Enclosed (drawn in U.S. Dollars on a bank located in the US or Canada)
- International Postal Money Order (in U.S. Dollars)
- VISA    MasterCard    American Express (*Credit cards are processed in US dollar amounts only*)

Card No. \_\_\_\_\_ Expiration Date \_\_\_\_\_

Print name of cardholder: \_\_\_\_\_

REQUIRED: Credit Card Billing Address (street, city, state, and zip):

\_\_\_\_\_  
\_\_\_\_\_

Authorized Signature \_\_\_\_\_

**Mail to:**

American Institute of Professional Geologists  
1400 W. 122<sup>nd</sup> Avenue, Suite 250  
Westminster, CO 80234  
or fax to (303) 253-9220 or register on-line at [www.aipg.org](http://www.aipg.org)  
National AIPG Phone Number is (303)412-6205

**Refund Policy:** A 90% refund of total fees paid (10% withheld to cover administrative costs) will be given upon receipt of a written request until 7/18/08. Cancellations made by written notification received between 7/19/08 and 9/1/08 will be assessed a charge of 20% (to cover administration costs) of the total fee paid. NO refunds will be given for cancellations received after 9/1/08 or for no-shows after the meeting. Based on the decisions of AIPG/AHS/3rd IPGC, field trips and workshops are subject to cancellation due to lack of participation. Notification and a full refund for field trips or workshops will be given in case of required cancellations.



Photo by Larry Fellows

## SPONSORSHIP, EXHIBIT BOOTH AND ADVERTISING OPPORTUNITIES

The American Institute of Professional Geologists (AIPG) and the Arizona Hydrological Society (AHS) are hosting their Annual Meetings in conjunction with the 3<sup>rd</sup> International Professional Geology Conference (3<sup>rd</sup> IPGC) at the High Country Conference Center at the Northern Arizona University (NAU) and the Radisson Hotel in Flagstaff, Arizona. Overall meeting attendance is projected to reach 400-500 individual registrants.

Sponsorships are available at the Platinum, Gold, Silver, and Copper levels, for the Welcome Reception, and for Student Programs. Exhibit booth space is also available for advertising your products and services to gain maximum exposure to this large group of professionals.

Information about sponsorship, exhibit booth, and advertising opportunities is also available at <<http://www.aipg.org/2008/AIPG-AHS-3IPGC.htm>>.

### SPONSOR PROSPECTUS

The AIPG/AHS/3<sup>rd</sup> IPGC meeting in Flagstaff is a great opportunity to promote your company to hundreds of professionals locally, throughout the US, and worldwide. Following is a summary of available sponsor levels, and the associated benefits to you as a sponsor. Sponsorships at the Platinum, Gold, Silver and Copper levels are available to support the conference.

#### PLATINUM (PT) LEVEL: \$10,000

##### Benefits:

- Company logo on conference website with a link to your company website
- Company logo on cover of Proceedings of the conference
- Company logo on sign at event entrance at the High Country Conference Center and the Radisson Hotel
- Company acknowledgement during Opening Remarks
- Company logo prominently displayed on sponsor page of conference program
- Two complimentary registrations to the conference
- Company logo displayed on poster boards near ingress/egress of reception area
- Company logo on conference "give away" items
- Acknowledgement as conference sponsor on Field Trip Guidebooks
- Marketing material will be included in conference registration packet (if desired)

#### GOLD (AU) LEVEL: \$7,500

##### Benefits:

- Company logo on conference website with a link to your company website
- Company logo on sign at event entrance
- Company logo on sponsor page of conference program

- Two complimentary registrations to the conference
- Acknowledgement as sponsor during technical session breaks or on Field Trip Guidebooks (sponsors choice)

#### SILVER (AG) LEVEL: \$5,000

##### Benefits:

- Company logo on conference website:  
<http://www.aipg.org/2008/AIPG-AHS-3IPGC.htm>
- Company logo on sign at event entrance
- Company logo on sponsor page of conference program
- One complimentary registration for the conference
- Acknowledgement as sponsor during technical session breaks or on Field Trip Guidebooks (sponsors choice)

#### COPPER (CU) LEVEL: \$2,500

##### Benefits:

- Company name on sponsor page of conference program
- Company name on sign at event entrance
- Acknowledgement as sponsor during technical session breaks or on Field Trip Guidebooks (sponsors choice)

#### SUNDAY EVENING WELCOMING RECEPTION: \$1,000

##### Benefits:

- Company logo on sign at Welcome Reception area and bar during reception

# AIPG/AHS/3<sup>rd</sup> IPGC 2008 Symposium September 20-24, 2008 Flagstaff, Arizona



Photo by Larry Fellows

## EXHIBITOR AND ADVERTISING

### Exhibitor Information

The exhibit booths will be located at the High Country Conference Center in a prime area for visibility and exposure. Exhibits may be set-up on Sunday, September 21<sup>st</sup> from 10:00 am - 4:00 pm. Booth tear down is Tuesday, September 23<sup>rd</sup> from 3:00 pm to 5:00 pm. Exhibit space is 8' wide 6' deep and a 6' skirted table and two chairs will be provided. Exhibitors will also receive one complimentary meeting registration that includes a continental breakfast, breaks, and lunch for both Monday and Tuesday. There is limited space available (36 exhibit booths) so reserve EARLY!

### Advertising Information

As co-host of the meeting, AIPG has put together an advertising package to provide the maximum exposure for your advertising. In addition to advertising which will appear in the AIPG bi-monthly journal, *The Professional Geologist (TPG)*, an "AIPG 45<sup>th</sup> Annual Meeting, AHS 21<sup>st</sup> Annual Symposium, 3<sup>rd</sup> International Professional Geology Conference Program," will be published. All advertisers will be listed on the conference website: <http://www.aipg.org/2008/AIPG-AHS-3IPGC.htm>. Your advertisement will be included in *TPG* which is available online and is mailed to over 5,700 members of AIPG plus the over 400 attendees expected at the meeting. Provide a camera-ready copy or a high resolution electronic file for advertisement. Advertisement sizes include:

- Full-page - \$800 (add \$200 for color ads)
- Half-page - \$400 (add \$100 for color ads)
- Professional card \$100

Do you have questions about the details? Want to try something a little different? Want your brochure inserted into the registration kit? Do you want to make an in-kind contribution?

For answers to your questions or more information, call Cathy Duran, AIPG Headquarters, at 303-412-6205 or e-mail [cld@aipg.org](mailto:cld@aipg.org)

Thank you!

We look forward to seeing you at the:

**AIPG 45<sup>th</sup> Annual Meeting  
AHS 21<sup>st</sup> Annual Symposium  
3<sup>rd</sup> International Professional Geology Conference  
September 21 - 23, 2008  
Flagstaff, Arizona**

To learn more about becoming a sponsor, contact:

Kel Buchanan, Sponsorship Chair  
Phone: (775) 786-4515/Fax: (775) 786-4324  
E-mail: [SummitCrk@aol.com](mailto:SummitCrk@aol.com)

or

Wendy Davidson, AIPG Assistant Director  
Phone: (303) 412-6205/Fax: (303) 253-9220  
E-mail: [wjd@aipg.org](mailto:wjd@aipg.org)

## SPONSORSHIP FORM AGREEMENT

### AIPG 45<sup>th</sup> Annual Meeting AHS 21<sup>st</sup> Annual Symposium 3<sup>rd</sup> IPGC

**YES!!** We want to be part of the AIPG, AHS, 3<sup>rd</sup> International Professional Geology Symposium, September 21 - 23, 2008 in Flagstaff, Arizona. The 2008 Meeting can count on us as a Sponsor, to participate in an Exhibit Booth, and/or to be an Advertiser.

- Platinum Level (\$10,000)
- Welcome Reception (\$1,000)
- Gold Level (\$7,500)
- Student Programs (\$1,000)
- Silver Level (\$5,000)
- Other \_\_\_\_\_ (\$1,000 minimum)
- Copper Level (\$2,500)

### EXHIBIT BOOTHS AND ADVERTISING PACKAGE

*Exhibitors, Guests, and all speakers must register.*

- Exhibit Booth (\$2,000) *Includes one complimentary meeting registration.*
- Exhibit Booth for Platinum Level Sponsors (\$1,500) *Includes two complimentary meeting registrations.*
- Advertising Package (\$100 - \$1,000) *Enclose electronic and camera-ready copy.*

**TOTAL AMOUNT:** \$ \_\_\_\_\_ Date: \_\_\_\_\_

- Check enclosed (payable to AIPG)
- Please invoice immediately - payment due within 30 days.

Sponsoring Individual or Company: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Contact's E-mail: \_\_\_\_\_

Company's Website Address: \_\_\_\_\_

Send checks (payable to AIPG) and Sponsorship Form Agreement to:

**AIPG, 1400 W. 122nd Ave., Suite 250, Westminster, CO  
80234**

**(303) 412-6205 • Fax (303) 253-9220**

**<http://www.aipg.org/2008/AIPG-AHS-3IPGC.htm>**

AIPG will contact you upon receipt of this form to complete arrangements.

# AIPG/AHS/3<sup>rd</sup> IPGC 2008 Symposium September 20-24, 2008 Flagstaff, Arizona



Photo by Larry Fellows

## DRIVING DIRECTIONS

Radisson Hotel  
1175 West Route 66,  
Flagstaff Arizona 86001  
(928) 773-0597

High Country Conference Center  
201 West Butler Avenue,  
Flagstaff, AZ 86001

## HOTEL PARKING

Complimentary parking for hotel  
guests and visitors.

## LOCAL AIRPORTS

Flagstaff Pulliam Airport  
Airport Code: FLG

Air service daily by American West  
Airlines from Phoenix Sky Harbor  
Airport

## TRANSPORTATION SERVICES

Shuttle Service-Open Road Tours  
(928) 226-8060 or (877) 226-8060  
Provides regular scheduled shuttles  
from Phoenix Sky Harbor Airport as  
well as custom itineraries.

**By Rail**-The historic downtown train  
station offers easily accessibility to  
Flagstaff with Amtrak providing daily  
service to and from the city.

