The Professional GEOLOGIST

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FRONT COVER—Geologic and scenic photos of St. Louis, Missouri, site of the AIPG•AEG 2001 Annual Meeting. Photographs courtesy of the St. Louis Convention & Visitors Commission, Bob Berri, Dave Hoffman, Duane Krueger, Paul Santi, and the Missouri Department of Natural Resources.

INSIDE BACK COVER—Photography is provided courtesy of the St. Louis Convention & Visitors Commission.
THE WASHINGTON D. C. FLY-IN

Robert H. Fakundiny, CPG-04977

The reason for a Fly-In is to establish and maintain communication with the staffs of Federal agencies and legislative committees that deal with geological issues. Our goals are to find out what is going on behind the scenes along the Potomac River and to present our perspectives on those issues that affect the geological profession. These face-to-face meetings can be useful and extremely instructive, and they should bring direct benefits to the AIPG membership.

One of the most important questions we asked at each meeting, when appropriate, was “Are there opportunities for the private-sector geologist to bid on geological projects that are contemplated by your agency?” It was no surprise to me that almost everyone we talked to had ideas of how work could be parcelled out to us. So I am asking John Talley, our Chair of the National Affairs Committee, to establish with these agencies a regular process whereby we can get early information about bidding on jobs. We will then put this information on the secure part of our website as a service to the membership. As we expand our contacts, we should be able to expand this service to you. Let us hope that we can put this project into operation quickly.

We had a good conversation alone with Chip Groat, Director of the U.S. Geological Survey (and AIPG member), and later with Chip and Patrick Leahy, Chief Geologist, when Pat was able to join us. During this meeting we reiterated our concern about USGS competition with the private sector. We left the meeting feeling that both Chip and Pat would revisit this issue with the USGS staff. To make sure, I am revitalizing the committee to review the competition problem. If you would like to participate on that committee, please contact me.

Our Fly-In also allowed the Executive Committee to hold our second “trimester” meeting and to continue the long-range planning process. I wish to thank all of you who planned and participated in the Fly-In, and especially John Talley and his committee, President-Elect Larry Cerrillo, and Carl Smith. They made the 2001 Washington D.C. Fly-In a successful completion of one critical part of this year’s schedule.

The Washington D.C. Fly-In was a success by all accounts. About 18 members, including most of the Executive Committee, formed into teams and visited 13 Federal agencies and legislative subcommittees. The Colorado contingent visited Senator Ben Nighthorse Campbell, and I led a group of presidents of some of the major geological societies to visit Congressman Sherwood Boehlert, Chair of the House Science Committee. This year we tried to focus on a few critical issues that are important to AIPG members, specifically: (1) access for mineral-resource assessors to public lands, (2) National Cooperative Geologic Mapping Program, (3) national energy policy, and (4) opportunities for the private-sector consulting geologist to bid on Federal projects. I also raised the issue of establishing a Federal Lands Policy Committee, somewhat similar to the Outer Continental Shelf Policy Committee, which works with the Minerals Management Service. We discussed this concept, which includes an advisory council of representatives from the states containing Federal lands, with the National Park Service, Bureau of Land Management, and the U.S. Forest Service, the latter two of which have vast lands with potential mineral resources. I will present my thoughts on this item in a future column. John Talley will report details of all of the meetings in a separate column.
The second AIPG National Executive Committee meeting of 2001 was held at the Radisson Barcelo Hotel in Washington, D.C. on May 6, 2001. The meeting was held in conjunction with AIPG's annual Washington D.C. Fly-In.

The meeting was called to order by President Fakundiny, and was attended by President-Elect Cerrillo, Vice President Corbett, Secretary Lawless, Treasurer Kumar, Editor McLemore, and Advisory Board Representatives Rohlfis and Sadoff. Headquarters staff in attendance included Executive Director Siok and Member Services manager O'Keefe. Bruce Darling, past president of the Texas section, also was in attendance as a visitor.

Secretary Lawless reported updated membership statistics of 4,655 members as of 3/30/00, and 4,555 members as of 3/28/01. Treasurer Kumar reported AIPG continues to enjoy good financial health. The executive Committee approved an amendment to the Bylaws (7.2.3) which cleans up the language regarding dues paid to inactive sections.

Editor McLemore suggested that AIPG sponsor Publications Manager Davidson's attendance at the Association of Earth Sciences Editors annual meeting in Kansas this October. The Executive Committee enthusiastically supported this proposal.

Vice President Corbett reported on section responses to his survey. Sections requested AIPG sponsorship of short courses with credit and Executive Director and President visits to section activities. The Vice President recommended the survey by made on an annual basis.

Executive Director Siok noted that a surprisingly large number of members responded negatively to a proposed Continuing Professional Development (CPD) program. The Executive Director stated he believes this may be due in large part to the misconception that the CPD would be mandatory for current members. Member concerns will be addressed in an upcoming TPG.

The Long-Term Planning Process (the Plan) was formalized by recognizing that it was initiated on January 19, 2001 and agreeing that the Plan should be reviewed regularly and modified as necessary by the Executive Committee. Three Plan committees are currently forming: Member Services, Membership, and Revenue.

The Executive Committee decided to table the four draft position statements pending further review. The four White Papers include National Energy Policy, Access to Public Lands, Aggregate Resources and Land-Use Planning, and Domestic Mineral Resources.

The next Executive Committee meeting will be held in St. Louis on October 2, 2001. Committee members will continue to work on AIPG business via correspondence until the next meeting.

AIPG Sponsors a Workshop for Students on Careers in Hydrogeology

The Arizona Section of the American Institute of Professional Geologists (AIPG) is sponsoring a workshop at the Arizona Hydrological Society (AHS) annual symposium for students interested in working in hydrology and hydrogeology. The session will be held on Friday, September 14, 2001, at the Presidio Plaza Hotel, 181 West Broadway, Tucson. The session will start at 1:30 pm and end by 5 pm. Students will be allowed to attend the career session without paying a registration fee for the symposium. There will be a break during the session so that students can visit the Exhibitor booths.

The session will be geared for undergraduate and graduate students in hydrology and hydrogeology. Topics of discussion will focus on employment and long-term goals for professional development. The session will give ideas about marketing yourself (and getting the job) and then formulating your goals to become a professional. Job market trends and statistics will be covered, requirements for state registration, what employers want in their new hires, and strategies for getting that first job. There will be time for questions. At the end of the session, the presenters will be available to meet one-on-one with students. Students are encouraged to bring a copy of their resume and have it critiqued.

Students will receive copies of Careers in Hydrology and Geology, a compilation of papers written by members of the American Institute of Professional Geologists. This publication also is available in a downloadable PDF format off the AIPG website (www.aipg.org) under Publications, Reflections of a Geological Career. Door prizes of AIPG's publication, The Citizens' Guide to Geologic Hazards, will be given out by the Arizona Section of AIPG.

Presenters include Dawn Garcia, Technical Services Manager for IT Corporation; Bill Greenslade, Associate and Senior Hydrogeologist for Southwest Groundwater Consultants; Gail Cordy, Supervisory Hydrologist for the USGS Water Resources Division; and Kevin McCray, Executive Director of the National Ground Water Association. Dawn and Bill are members of the Arizona Section of AIPG.

More information on the symposium is available on the AHS website (www.AzHydroSoc.org).
The membership poll on the CPD proposal (ballot in March 2001 TPG) has been tabulated. More than sixty percent of those voting supported adoption of a CPD program by AIPG. Interestingly, the positive ballots were split equally on the questions:

Should AIPG implement the CPD requirement as proposed by the Professional Education Committee and described by Committee Chairman Tom Fails in TPG?

OR

Should AIPG institute a CPD requirement but less complex than that proposed by the Professional Education Committee as described by Committee Chairman Tom Fails in TPG?

Among those choosing the third alternative, Comments on Alternatives, more were negative than positive, but totaled less than 40% of those voting.

The Task Force for Continuing Professional Development requests that written suggestions of how the complexity of the proposal as described in TPG can be reduced should be sent to Tom Fails at Headquarters. Please, do not simply write “don’t do it” or “make it less complex.” The first two TPG articles on the CAMP (the proposal) did not present the proposal with the simplicity and clarity that it deserves. The third and “least-complex” discussion was in the August/September 2000 TPG. The Task Force and I are very willing to consider suggestions that may lead to greater clarity and simplicity. But please be specific and positive—identify the issues clearly, discuss them and provide an alternative, if one is possible. The CPD program, whatever it is called, must be positive and help support and protect the best interests of the participants. If it is indeed too complex, simplifications will be found. But again, we need your input on this.

At the St. Louis Annual Meeting, early in October, a two-hour discussion session on the CPD program will take place. Suggestions for alleviating complexity that are received in advance will be discussed by Tom Fails, and additional suggestions will be taken from the floor. However, those suggestions received before the Annual Meeting inevitably will receive greater measured consideration and discussion than those received from the floor, and MAY become a part of a recommendation at the Annual Meeting session. So, if you have a constructive comment on reducing complexity, please let me know soon.

IN CLOSING, LET ME STATE ONCE AGAIN SOMEthing THAT NUMEROUS CALLERS TO HEADQUARTERS DO NOT SEEM TO UNDERSTAND:

“NO CURRENT CPG WILL EVER BE SUBJECT TO A MANDATORY CPD REQUIREMENT. OUR CHARTER DOES NOT ALLOW IT. AIPG CANNOT RETROACTIVELY CHANGE THE REQUIREMENTS UNDER WHICH YOU WERE ORIGINALLY CERTIFIED. HOWEVER, VOLUNTARY PARTICIPATION BY CURRENT CPGS IN THE CPD PROGRAM WILL BE POSSIBLE.”

SUPER SALE!

AIPG is making the popular Home Buyers’ Guide to Geologic Hazards available for $1.25 each when purchased in lots (a case) of 100. The total purchase price, includes shipping, is $125.00. This AIPG publication is an excellent guide to geologic conditions that affect home building sites. It includes descriptions of features to look for when considering the purchase of a site or an existing home. The Home Buyers’ Guide to Geologic Hazards is educational and can help alert prospective buyers, realtors, and the general public to problem areas. To place your purchase, please call, fax, or e-mail your order to: AIPG, 8703 Yates, Drive, Suite 200, Westminster, CO 80031-3681 • (303) 412-6205 • Fax (303) 412-6219 • aipg@aipg.org. Allow two weeks for delivery. Visa, Mastercard and American Express accepted.

UPDATE

AIPG Web Site

The AIPG web site has a new look <www.aipg.org>. Check it out! The site now includes a new feature called “Geology In The News” which is changed daily and links to current news items. Also added are links to rental car agencies, travel arrangements, insurance, and maps. The new drop down menu has links to members web sites, member resumes, section web sites, 2001 Annual Meeting information, and more. If you have any comments or suggestions for improving the web site please contact the National Headquarters office at <aipg@aipg.org> or (303) 412-6205.
Why We Are Skeptics On The Global Warming Issue

Michael T. Halbouty, CPG-00010 and Gerald T. Westbrook

Recently there has been a flood of reports expressing concern on global warming. We don’t believe that the earth and all of its inhabitants—human, fauna, and flora—will be subjected to a warming which would make living nearly impossible. Yet that is what is implied in some media reports.

While the number of skeptics has been depicted as a very small group, one petition has been signed, as noted by the Houston Chronicle on 4-22-01, by 17,000 scientists and engineers. The vast majority of skeptics are well informed. Indeed some skeptics come across as positive, brilliant, human, and interesting, far from the mediocritists that they are frequently depicted to be.

Skeptics have frequently been ridiculed. However such attacks are inconsistent with the National Academy of Science code of conduct: "The fallibility of [scientific] methods is a valuable reminder of the importance of skepticism in science. Scientific knowledge—must be continually scrutinized for possible errors." It states that a "searching skepticism as well as an openness to new ideas are essential to guard against intrusion of dogma or collective bias into scientific results." Detection of any warming is not simple. Elaborate surface temperature data bases have been assembled with data from thousands of weather stations around the world. However these stations are far from uniformly located, lack identical instrumentation and environment. Far more of their measurements are based on land versus water, in the northern hemisphere versus the southern, and in developed areas versus undeveloped. Based on such data bases, globally averaged temperature is 1.0°F warmer today versus 100 years ago. However, if only U.S. stations are utilized, this warming disappears. That is correct—no warming shown within our country. Since the U.S. stations are the best in the world, the global results are likely biased upwards and may be measuring urban warming only. As an alternative approach to surface data bases, a data base of satellite measured temperatures has emerged. While this record is shorter, with about 20 years of data, it’s coverage of our planet is 100%, and far more uniform.

This data base shows there has been no warming over it’s history. So there is controversy in detection of global warming, depending on which type of data one sees. One attribution of any warming the proponents of this issue automatically point to as the guilty culprit. However there are as many, if not more reasons to point to Mother Nature, in the form of natural climate variations. We, on planet Earth, live in an ocean of cyclical phenomena. The daily and annual cycles of our planet are the most obvious. A few other cycles include the ill-defined 2-7 year El Niño events, the 11 year Sun-spot cycle, longer cycles of 80, 200, and 1500 years, and very long term cycles of 19,000, 41,000, and 100,000 years. Do we know everything about such cycles? Absolutely not, but that is the point. Our understanding of these is embryonic, but rapidly unfolding, including their coupled climate. Hence finding society guilty on global warming today is surely premature. Proponents rely almost totally on huge computer models to make their case. What is left unsaid is the quality and limitations of these models. These models rely on cutting up the Earth into cells. In some models this leads to non homogeneous cells such as L.A. to Las Vegas to Reno and back to San Francisco. In the past there have been major concerns on model stability leading to the use of “fudge factors” (not our term). Some of the leading critics of these models have expressed concerns focused on what they consider unacceptable treatment of both water vapor in the atmosphere and on cloud cover. In digging in to these aspects one discovers that water vapor is the dominant greenhouse gas, contributing as much as 95% of the greenhouse effect. One further discovers that these models only predict a significant warming when water vapor feedback mechanism is incorporated. Without this feedback, increased levels of carbon dioxide or methane or other greenhouse gases will not lead to the dramatic warming predicted. In conclusion, the science behind this issue is far from complete. The economic consequences of this issue are so enormous that it benefits us all to make sure we get the science right and not settle for a politically defined solution. If the Kyoto Treaty were adopted today it would cost the U.S. taxpayers billions, perhaps trillions of dollars, dramatically affecting our economy. It is the firm conviction of the authors of this essay that the proponents of this issue have not proven that fuel based carbon dioxide is guilty. In addition we would argue, even more strongly that the proponents have not made the case that it is imperative that we act immediately. We do not see the catastrophic future painted by the fear mongers that populate this movement. It is far easier to see very serious economic hard times if society constrains itself any further than it already has on nuclear power, that it has considered doing on hydropower, and that it would do on fossil fuels if caps were placed on carbon dioxide emissions. Another problem of resource shortages exists as we look into the coming century and that is food. Our ability to keep supply ahead of demand, has been due, in part, to the gradual increase in carbon dioxide in our atmosphere and the increase in agricultural yields that results. Thousands of technical papers attest to this conclusion. Indeed some key scientists argue that the expected modest rise in carbon dioxide will not lead to any climate disaster, but will actually help feed the World.

Halbouty, a geoscientist, is chairman of the board and chief executive officer of Michel T. Halbouty Energy Co. of Houston. Westbrook, a chemical engineer and economist, was formerly with Dow Hydrocarbons & Resources Inc. and is now president of TSBV Consultants and a senior associate at the CBA Energy Institute at the University of Houston.
A four-hour short course, “Practical Geoscience Ethics: Elements, Examples, and Education” will be presented at the AIPG/AEG Annual Meeting in St. Louis and at the GSA Annual Meeting in Boston. David Abbott, AIPG Ethics Committee Chairman and compiler of the “Professional Ethics & Practices” column, and John Williams of San Jose State University are the presenters. An increasing number of geoscientists recognize the importance of professional ethics but lack reference material to guide their study of the subject. This course introduces geoscience professional ethics using case histories to illustrate the issues presented. Examination of the ethical basis for and the organization of geoscience ethics guidelines and codes provides a foundation for examining what is and is not covered by professional ethics, including the difference between ethical rules, which should always be followed, and ethical ideals towards which we strive. A methodology for examining specific cases from an ethical perspective is included. The AGI Geoscience Ethics Guidelines and the AIPG Ethics Code will be used as primary examples; other geoscience ethics codes will be included in the handouts. The course also covers methods for including discussions of professional ethics within a geoscience curriculum.

Course participants should gain a better understanding of the basis for geoscience ethics, the fundamental concepts involved, the existence of exceptions to the general rules, and that discriminating between differing facts of specific case histories can radically impact how a situation is viewed. For example, we all recognize the general rule that faculty members should not sleep with students. The most obvious exception to this rule is when the faculty member and student are married. Whether other exceptions exist will be discussed and debated including a discussion of the basic issues underlying the rule: conflicts of interest and differences in positional power.

The course is designed for practicing geoscientists desiring a better grounding in professional ethics and at professors desiring both better understanding of the subject and ideas on how to teach professional ethics in an already overcrowded curriculum. The anticipated cost of the course will be less in St. Louis than in Boston due to relative costs of the meeting space. Please see the respective meeting announcements or contact David Abbott for further details.

CONGRATULATIONS!

The American Institute of Professional Geologists Announces the Award Recipients for 2001

The American Institute of Professional Geologists is pleased to announce that the following individuals have been named the recipients of this year’s Honors and Awards.

BEN H. PARKER MEMORIAL MEDAL
Susan M. Landon, CPG-04591

MARTIN VAN COUVERING MEMORIAL AWARD
Thomas G. Fails, CPG-03174

JOHN T. GALEY, SR. MEMORIAL PUBLIC SERVICE AWARD
John J. Dragonetti, CPG-02779

AWARD OF HONORARY MEMBERSHIP
William V. Knight, CPG-0153

Awards will be given to recipients at the AIPG~AEG Annual Meeting in St. Louis, Missouri. The Awards Banquet will be held on October 4, 2001.
“Geology: Central to Society’s Needs”

ST. LOUIS, MISSOURI

September 30 - October 7, 2001
March 24, 2001

“MEET US IN ST. LOUIS”

Dear AIPG Members:

This fall, you will have the opportunity to participate in a historic inaugural event: The joint annual meeting of the American Institute of Professional Geologists and The Association of Engineering Geologists. The meeting will be held September 31, 2001 through October 7, 2001 in St. Louis, Missouri.

Our meeting hotel will be the Hyatt Regency at Historic Union Station, in downtown St. Louis. The hotel offers a one of a kind venue for this one of a kind event. Lodging, meeting rooms, banquet facilities, casual and fine dining, shopping, and entertainment, all under one roof.

By teaming with AEG, the technical program for the meeting will offer significantly more technical presentations than AIFG has traditionally had at past annual meetings. Secondly, our peers in AEG will be able to participate in the wide variety of professional development aspects that AIPG champions. Our theme, “Geology: Central to Society’s Needs”, will highlight how geologists play an integral part in society today and the role of the geologist in protecting the public health, safety, and welfare.

The program will include pre- and post-meeting field trips highlighting the diverse and unique geology of the central United States. Pre-Cambrian geology, tectonics, metallic and industrial minerals mining, karst geology, engineering and environmental geology will all be covered, both by field trips and technical sessions. Focused Symposia will feature topics such as Aquifer Storage and Recovery, Ground-Water Remediation, Mid-Continent Earthquake Hazards, and others. All in all, there will be something for everyone.

Spouse, guests, and participants will be able to partake in the color and history that St Louis has to offer. A joint awards banquet and social events will also provide our two organizations a chance to come together, a chance to make new friends and become re-acquainted with old one.

So make plans now to attend this first ever joint meeting of AIPG and AEG. We want this inaugural joint meeting to be the high-water mark of your year and we want you to help us set the standard for future joint efforts for our two organizations. See You In St Louis.

Sincerely,

John T. Howard, CPG 8740
AIPG Co Chairman – 2001 Annual Meeting

Lawrence C. Rosen, RG
AEG Co Chairman – 2001 Annual Meeting
**SATURDAY - September 29th**

Departure - 4:00 PM  **Field Trip #2 (Day 1 of 3 day trip)**—Site Characterization of Abandoned Mined Ground, Joplin Lead-Zinc District, Southwest Missouri

**SUNDAY - September 30th**

7:00 AM - 5:00 PM  Registration
7:00 AM - 5:00 PM  Information Center
8:00 AM - 5:00 PM  **Field Trip #2 (Day 2 of 3 day trip)**—Site Characterization of Abandoned Mined Ground, Joplin Lead-Zinc District, Southwest Missouri
8:00 AM - 6:00 PM  **Field Trip #1 (Day 1 of 2 day trip)**—The St. Francois Mountains and St. Francois Igneous Terrane-Regional Stratigraphy and Structure, Mineral Deposits, and Petrology (with underground mine trip)

**MONDAY - October 1st**

7:00 AM - 5:00 PM  Registration
7:00 AM - 5:00 PM  Information Center
8:00 AM - 5:00 PM  Spouse/Guest Hospitality Suite
8:00 AM - 5:00 PM  **Short Course #1**—Construction in Karst: What can go wrong and how to fix it
8:00 AM - 5:00 PM  **Short Course #2**—Advances in Stream and River Management
8:00 AM - 6:00 PM  **Field Trip #2 (Day 3 of 3 day trip)**—Site Characterization of Abandoned Mined Ground, Joplin Lead-Zinc District, Southwest Missouri

**TUESDAY - October 2nd**

7:00 AM - 5:00 PM  Registration
7:00 AM - 5:00 PM  Information Center
7:00 AM - 6:00 PM  AIPG Executive Committee Meeting
7:00 AM - 7:00 PM  AEG Executive Council Meeting
8:00 AM - 5:00 PM  Spouse/Guest Hospitality Suite
8:00 AM - 6:00 PM  **Field Trip #3**—Ozark Plateau Karst Geology
8:00 AM - 6:00 PM  **Field Trip #4**—Abandoned Mine Reclamation Sites in Southern Illinois
8:00 AM - 12:00 PM  **Short Course #2 (continued)**—Advances in Stream and River Management
8:00 AM - 12:00 PM  **Short Course #3**—ASFE Loss Prevention Short Course—Field Representation: The Technician’s Role on Site
9:00 AM - 3:00 PM  **Spouse/Guest Trip #1**—Forest Park and the Missouri Botanical Garden Tour
12:00 PM - 1:30 PM  AIPG•AEG Combined Executive Committee Luncheon (Private Function)
12:00 PM - 4:00 PM  Exhibitors Setup
8:00 PM - 10:00 PM  Ice Breaker

**WEDNESDAY - October 3rd**

6:30 AM - 8:30 AM  Speakers/Moderators Breakfast
7:00 AM - 9:00 AM  AIPG Advisory Board Meeting
7:00 AM - 5:00 PM  Information Center
7:00 AM - 5:00 PM  Registration
8:00 AM - 5:00 PM  Spouse/Guest Hospitality Suite
8:00 AM - 5:00 PM  Exhibit Hall
9:00 AM - 12:00 PM  Opening Session, Welcome, Keynote Address, AEG’s Outstanding Environmental and Engineering Geologic Project, and AEG’s Jahns Lecture
9:00 AM - 3:00 PM  **Spouse/Guest Trip #2**—Show Me St. Louis Tour
9:00 AM - 5:00 PM  Poster Sessions
1:00 PM - 3:00 PM  **Professional Development**—AIPG Continuing Professional Development Program
12:00 PM - 1:30 PM  Exhibitor’s Lunch
**PROGRAM (continued)**

### WEDNESDAY - October 3rd (continued)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:30 PM - 5:00 PM</td>
<td>Technical Sessions 1—5</td>
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<tr>
<td>6:30 PM - 10:00 PM</td>
<td>SPECIAL EVENT—GATEWAY ARCH</td>
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### THURSDAY - October 4th

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<th>Time</th>
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<td>6:30 AM - 8:00 AM</td>
<td>Speakers/Moderators Breakfast</td>
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<td>7:00 AM - 8:30 AM</td>
<td>Women in AEG•AIPG•AWG Breakfast</td>
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<td>7:00 AM - 9:00 AM</td>
<td>AIPG 2002 Advisory Board Committee</td>
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<tr>
<td>7:00 AM - 5:00 PM</td>
<td>Registration</td>
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<td>7:00 AM - 5:00 PM</td>
<td>Information Center</td>
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<td>8:00 AM - 12:00 PM</td>
<td><strong>Technical Session 6—10</strong></td>
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<td>8:00 AM - 5:00 PM</td>
<td>Exhibit Hall</td>
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<td>8:00 AM - 5:00 PM</td>
<td>Spouse/Guest Hospitality Suite</td>
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<td>9:00 AM - 4:00 PM</td>
<td><strong>Spouse/Guest Trip #3—Missouri Wine Country Tour</strong></td>
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<td>9:00 AM - 5:00 PM</td>
<td>Poster Sessions</td>
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<td>12:00 PM - 1:30 PM</td>
<td>AEG Corporate Business Meeting and Luncheon</td>
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<td>1:00 PM - 3:00 PM</td>
<td>AIPG 2001/2002 Combined Executive Committee Meeting</td>
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<td>1:30 PM - 5:00 PM</td>
<td><strong>Technical Sessions 11—15</strong></td>
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<td>6:30 PM - 7:15 PM</td>
<td>Reception</td>
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<td>7:15 PM - 10:30 PM</td>
<td>AIPG•AEG Annual Banquet and Awardees</td>
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### FRIDAY - October 5th

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<th>Time</th>
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<tr>
<td>6:30 AM - 8:00 AM</td>
<td>Speakers/Moderators Breakfast</td>
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<tr>
<td>6:30 AM - 8:00 AM</td>
<td>AIPG•AEG Past Presidents' Breakfast (Private Function)</td>
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<td>7:00 AM - 9:00 AM</td>
<td>Registration</td>
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<td>7:00 AM - 5:00 PM</td>
<td>Information Center</td>
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<td>7:00 AM - 11:59 PM</td>
<td>Spouse/Guest Hospitality Suite</td>
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<td>8:00 AM - 12:00 PM</td>
<td><strong>Technical Sessions 16—20</strong></td>
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<td>9:00 AM - 3:00 PM</td>
<td><strong>Spouse/Guest Trip #4—St. Louis Zoo and Science Center Tour</strong></td>
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<td>9:00 AM - 2:00 PM</td>
<td>Exhibit Hall</td>
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<td>9:00 AM - 2:00 PM</td>
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<td>12:00 PM - 2:00 PM</td>
<td>AIPG Business Meeting and Luncheon</td>
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<tr>
<td>1:30 PM - 5:00 PM</td>
<td><strong>Technical Sessions 21—25</strong></td>
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<td>1:30 PM - 5:00 PM</td>
<td>Professional Development—Governing a Nonprofit Board—</td>
</tr>
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<td></td>
<td>Developing Leaders for AEG•AIPG</td>
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<tr>
<td>Departure - 5:00 PM</td>
<td><strong>Field Trip #5 (Day 1 of 3 day trip)—Neotectonics of Southeast Missouri: New Madrid Seismic Zone</strong></td>
</tr>
<tr>
<td>6:30 PM - 9:00 PM</td>
<td>AEG President’s Reception (Private Function)</td>
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### SATURDAY - October 6th

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:00 AM - 6:00 PM</td>
<td>Teachers Workshop</td>
</tr>
<tr>
<td>7:30 AM - 6:00 PM</td>
<td>AEG Board of Directors Meeting</td>
</tr>
<tr>
<td>8:00 AM - 12:00 PM</td>
<td><strong>Short Course #4—Hydrocarbon Tracers for Differentiating Fuel Type, Source, and Extent of Weathering</strong></td>
</tr>
<tr>
<td>8:00 AM - 5:00 PM</td>
<td><strong>Field Trip #5 (Day 2 of 3 day trip)—Neotectonics of Southeast Missouri: New Madrid Seismic Zone</strong></td>
</tr>
<tr>
<td>8:00 AM - 5:00 PM</td>
<td><strong>Field Trip #6—Weldon Spring Site Remedial Action Project, St. Charles, Missouri</strong></td>
</tr>
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### SUNDAY - October 7th

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30 AM - 2:00 PM</td>
<td>AEG Board of Directors Meeting</td>
</tr>
<tr>
<td>8:00 AM - 5:00 PM</td>
<td><strong>Field Trip #5 (Day 3 of 3 day trip)—Neotectonics of Southeast Missouri: New Madrid Seismic Zone</strong></td>
</tr>
</tbody>
</table>
In conjunction with the meeting theme of the 2001 Joint Annual Meeting, “Geology: Central to Society's Needs,” the technical program will focus on a variety of earthquake-related issues, as well as classic engineering geology, environmental, and ground water topics. The 2001 Joint Annual Meeting Committee has planned technical sessions, special symposia, short courses, and a teacher workshop that we believe will provide an outstanding opportunity for geologists and other professionals to share the state-of-the-art and practices.

We hope the 2001 Joint Annual Meeting will be remembered as another of the outstanding meetings for which the Association of Engineering Geologists and the American Institute of Professional Geologists are known.

Short courses will begin Monday, October 1 with one full-day course. Another full-day course is offered on Tuesday, October 2, with a half-day course on Saturday, October 6.

Full meeting activities will begin at 9:00 am WEDNESDAY morning, October 3, 2001 in the Regency ABC Rooms with Welcoming Session and Keynote Address. Welcoming addresses by local and state dignitaries will lead up to the Keynote Address by Dr. Chip Groat, Director of the United States Geological Survey. Following the Keynote Address, AEG will present its Outstanding Environmental and Engineering Geologic Project Award and the Richard H. Jahns Distinguished Lecturer in Engineering Geology.

Following the completion of the Opening Session, immediately after lunch, five simultaneous technical sessions will highlight the diverse geology of the region and the challenges our profession faces in the environmental and engineering areas of practice in the Mid Continent of the US. Technical sessions will continue on both Thursday and Friday with both morning and afternoon session.

**TEACHERS’ WORKSHOP**

Our Teachers’ Workshop is being offered in conjunction with AEG and AIPG’s joint annual meeting. All attendees will receive a continuing education unit (CEU) for a full-day's workshop. No partial credit will be given.

For further information, call Martha Kopper at work at 314-209-3612. Martha’s e-mail address is: Martha.Kopper@theit-group.com

**FOR TEACHERS OF GRADES 4–12**

7:30 am - 5:00 pm = 0.9 CEUs  
8:00 am - 5:00 pm = 0.8 CEUs

AEG and AIPG are pleased to offer an earth-science teachers’ workshop. Three venues within the St. Louis downtown area are being offered. This workshop has been developed in order to assist science teachers in the development, preparation, and presentation of new science units to their students.

Continuing Education Credits will be given to those attending participants.

**MORNING - SELECT ONE**

#1 Geologic Walking Tour of Downtown St. Louis  
7:30 am to 11:30 am

#2 St. Louis Science Center  
8:00 am to 11:30 am

**AFTERNOON SESSION**

NASA - 1:30 pm to 5:00 pm

Presentation will be given at the Hyatt Regency Hotel. Participants may park behind the hotel. A map will be provided.

**AIPG PRESIDENT’S AWARDS**

These awards recognize the best undergraduate and graduate posters presented by students at the AIPG•AEG Annual Meeting. ALL STUDENTS ARE WELCOME TO PARTICIPATE IN THE POSTER SESSIONS – OCTOBER 3 - 5, 2001. Cash awards and associate memberships in AIPG will be given to deserving students in honor of an AIPG member. The award will be presented in honor of a member who has made significant contributions to the Institute, as chosen by the sitting President of AIPG.

**Graduate Category**

1st place, $500 plus AIPG Associate Membership  
2nd place, $100 plus AIPG Associate Membership  
3rd place, AIPG Associate Membership

**Undergraduate Category**

1st place, $250 plus AIPG Associate Membership  
2nd place, $50 plus AIPG Associate Membership  
3rd place, AIPG Associate Membership

All awardees will be requested to attend the AIPG Annual Business meeting to be recognized.
Engineering Geology Solutions to Mitigating Karst
Technical Session #2
Chair: Jim Vandike
Date: Wednesday - October 3 - Afternoon

Karst development presents unique engineering geologic challenges that commonly do not fit textbook solutions. This symposium will feature innovative engineering geologic solutions to problems such as sinkhole collapse and other subsidence, contaminant transport, ground water remediation, waste disposal siting, and similar topics in soluble rock and karst settings.

Aquifer Storage and Recovery
Technical Session #3
Chairs: Zhuping Sheng and Mike Fahy
Date: Wednesday - October 3 - Afternoon

Interest in artificial recharge has strengthened in recent years. Aquifer storage and recovery (ASR) systems are used to store treated surplus water or reclaimed water in a suitable aquifer through recharge basins, infiltration galleries, and wells, and recover the stored water through wells when it is needed. ASR systems also have been used to restore groundwater levels, control land subsidence, prevent or slow down saltwater and brackish water intrusions, and for other related purposes. Several concerns have been raised in the design and operations of ASR systems, such as well clogging (plugging) of injection wells, compatibility of recharged water with the native ground water, and recovery efficiency. This symposium will address ASR system planning, feasibility study, design operations, and other issues. This session will allow researchers, designers and operators to share their views and experience in dealing with ASR systems.

Mining, Government, and Society
Technical Session #8 and #13
Chairs: Laurence M. Nuelle, James Williams, Larry Coen
Date: Thursday - October 4 - All Day

As professional geologists, we often find ourselves linked to one of these sides or the other, or we end up navigating the ground in-between. This symposium will address the increasingly important interactions between government and mining, dealing with issues such as permitting, water quality, mine closure, minesubside, mining and urban surroundings, federal and private lands, public lands access, and federal and state relations. Representatives from mining companies and various federal and state agencies will share their experiences, a lively panel discussion is anticipated at the end of the symposium.

Recent Advances in Engineering Geology
Technical Session #10 and #15
Chairs: Paul Santi, University of Missouri-Rolla, and Harry Smede
Date: Thursday - October 4 - All Day

This symposium will give you a chance to sit through a single session and hear an overview of the state-of-the-art in a variety of engineering geology fields, including dams, tunneling, earthquakes, landslides, geophysics, remote sensing, GIS, rock mechanics, ground water, and solid and hazardous waste management, among others. Presentations are coordinated through the various AEG technical advisory committees on each topic.

Case Studies of Innovative Approaches to Ground-Water Remediation
Technical Sessions #17
Chairs: Bill Niemann
Date: Friday - October 5 - Morning

This symposium will showcase interesting and notable approaches—from technological, geological, regulatory, or economic perspectives—to either passive or active ground-water remediation. Case studies are especially emphasized.

Mid-Continent Earthquake Hazards
Technical Sessions #18 and #23
Chairs: David Hoffman, Missouri Geological Survey Program
Date: Friday - October 5 - All Day

This symposium will focus on earthquake hazards and related topics in any part of the Central United States, but especially the New Madrid and Wabash Valley seismic zones. A wide variety of topics will be covered including basic research on the occurrence, distribution, magnitude, and timing of historic and prehistoric earthquakes; the identification of geologic structures associated with the earthquakes; the effects of the earthquakes on geologic materials such as ground motion, soil amplification, liquefaction, landsliding, and ground deformation; the mapping of earthquake hazards; and the application of this knowledge to engineered structures and to other societal needs.

ENJOY THE BENEFITS OF FULL REGISTRATION!

- Admission to Exhibit Hall – included
- Admission to Ice Breaker – included
- Admission to all technical sessions – included
- Admission to all symposia – included
- Three breaks per day for the three days of technical sessions, with complimentary beverages – included
- Registration Kit – included
- Exhibitors’ Luncheon (October 3) – included

BENEFIT BY REGISTERING EARLY SEPTEMBER 1, 2001

You get all of these valuable extra benefits...
- Priority space allocation in short courses and field trips
- Early registration discount–meeting registration
- Early registration discount–field trips and short courses
- Priority reservations for the Banquet and Corporation Luncheon–space is limited.
Our six AEG•AIPG 2001 field trips, featuring engineering and environmental geology of Missouri and surrounding states, are designed to take you into some of the most diverse, intriguing, and active terrane in the area. All field trips depart from and return to the Hyatt Regency Hotel, except as noted. A field trip guidebook covering all six field trips is included.

For insurance purposes, field trip attendees should plan to ride the bus or van provided for the trip. For more information, contact the field trip leader listed for each trip, or the Field Trip Chair (Duane Kreuger, 314-997-7440, dtk@geo-technology.com). Also, see AEG’s Web Page: www.aegweb.org.

Early registration prices are available if you register before September 1, 2001. The last date for receiving late (full price) field trip registration by mail, fax, or e-mail is September 30, 2001, subject to space availability. All trips are subject to cancellation due to insufficient pre-meeting registration. For overnight trips, you will be contacted regarding roommates. Single supplement costs are noted.

The last field trip registration is 48 hours before the field trip (subject to space availability). Register early, as field trips could be cancelled due to insufficient early registrants.

Field Trip #1—Pre-Meeting, 2 days, 1 night
The St. Francois Mountains and St. Francois Igneous Terrane-Regional Stratigraphy and Structure, Mineral Deposits, and Petrology (Featuring an Underground Mine Tour)

Date: October 1 - 2 (Monday—Tuesday)
Time: 8:00 am - 6:00 pm daily
Cost: $210 - before September 7, 2001
$250 - after September 7, 2001 (Limit 12/40)
(includes transportation; one night lodging [double occupancy; single supplement = $10]; drinks, and two lunches; breakfasts and dinners are on your own.)

Location: Bus pickup in front of the Hyatt Regency

This trip considers the complex site characterization necessary for route alignment of Missouri Highway 249, a bypass around the historic lead-mining capital of Joplin. Mining began at Joplin in 1849 and continued for 111 years on an extremely complex basis of small claims and, later, large, consolidated mining properties. The lead occurs with zinc and is thought to have migrated in ground water down the in-place and emerging Ozark dome until encountering normally-faulted ground in the Joplin-Carthage area. Ore eventually was found on three stratigraphic levels as well as in paleo-sinkhole features. Nearly all mining was conducted without professional geological or engineering expertise and with only nominal record keeping. The rugged topography of the region is in part the result of numerous faults throughout the St. Francois Mountains and surrounding areas. Discussions at several stops will include relationships of faults to the Reelfoot Rift and the Ozark Uplift, as well as syntectonic tectonism.

The rugged topography of the region is in part the result of numerous faults throughout the St. Francois Mountains and surrounding areas. Discussions at several stops will include relationships of faults to the Reelfoot Rift and the Ozark Uplift, as well as syntectonic tectonism.

This trip will include a stop at the Pea Ridge iron ore mine, part of the world-class Southeast Missouri Iron Metallurgical Province. Pea Ridge is the only operating underground iron mine in the United States. Rather than steel, its products are iron concentrates for coal desulfurization and iron pigments. It has geologic significance due to the presence of rare earth elements and gold mineralization associated with the iron.

Early registration prices are available if you register before September 1, 2001. The last date for receiving late (full price) field trip registration by mail, fax, or e-mail is September 30, 2001, subject to space availability. All trips are subject to cancellation due to insufficient pre-meeting registration. For overnight trips, you will be contacted regarding roommates. Single supplement costs are noted.

The last field trip registration is 48 hours before the field trip (subject to space availability). Register early, as field trips could be cancelled due to insufficient early registrants.

Field Trip #2—Pre-Meeting, 3 days, 2 nights
Site Characterization of Abandoned Mined Ground, Joplin Lead-Zinc District, Southwest Missouri

Date: September 29 - October 1 (Saturday—Monday)
Time: 8:00 am - 5:00 pm daily (leaves at 4pm on 9/29)
Cost: $270 - before September 7, 2001
$310 - after September 7, 2001 (Limit 18/45)
(includes transportation; one night lodging [double occupancy; single supplement = $25]; drinks, and two lunches; breakfasts and dinners are on your own.)

Location: Bus pickup at 4:00 pm outside of the main terminal at Lambert-St. Louis Airport on Saturday, September 29. Bus will take tour members to the Annual Meeting hotel in St. Louis at termination of the field trip.
result today is environmentally-derelict ground littered with charted and uncharted mine shafts, collapsed mines, natural karst-dissolution depressions, and mounds of ground water containing mineral processing waste ("chat"). In a way, highway planners and designers were faced with crossing a "moon-scape" of pits, craters, and piles, either environmentally toxic or potentially physically unstable for both the roadway and ramps and bridges.

Missouri Department of Transportation (MoDOT) Highway 249 already is under early-phase construction, and the alignment has been chosen based on the results of site characterization reported in this field trip. Included was a summarization of the engineering geological character of historic mining, field mapping and confirmatory drilling, seismic reflection and ground-penetrating radar surveys, and a geometrical design for stabilization of mine shafts encountered in construction.

The right-of-way crosses a now derelict SUPERFUND National Priority List site. MoDOT has cooperated with USEPA Region VII and Missouri Department of Natural Resources (MDNR) by incorporating large quantities of chat containing heavy-metal waste encapsulated in a raised highway road section.

Leaders: Dr. Allen W. Hatheway, Consulting Geological Engineer, Rolla, Missouri and Big Arm, Montana, (573) 364-0818; (406) 849-5225, allen@hatheway.net; Tim Newton, Research Geological Engineer, Missouri Department of Transportation, Jefferson City, Missouri, (573) 526-4343, newton@mo.tol.state.mo.us; Dr. Neil Anderson, Professor of Geophysics, University of Missouri-Rolla, Rolla, Missouri, (573) 341-4852; nanders@urm.edu

Field Trip #3—Pre-Meeting, 1 day
Ozark Plateau Karst Geology

Date: October 2 (Tuesday)
Time: 8:00 am - 6:00 pm
Cost: $80 - before September 7, 2001
$100 - after September 7, 2001 (Limit 18/45)
(includes transportation, drinks, and lunch.)

Location: Bus pickup in front of the Hyatt Regency

This one-day trip transects the northeastern part of the Salem Plateau. The route mostly follows Interstate 44, which was constructed to replace historic Route 66. The Ozark region is well known for its karst development. Karst features such as losing streams, sinkholes, springs, and caves are common throughout the region. The fieldtrip will highlight two very notable karst features: Onondoga Cave and Meramec Spring. Onondoga Cave developed in the upper Cambrian Eminence Dolomite near the Meramec River southeast of Leasburg. It typifies the large phreatic caverns for which the Ozarks are so well known. Onondoga Cave is now part of Onondoga Cave State Park, but for many decades it was a very popular commercial cave operated by several businessmen, including Lester Dill, who also operated several other successful show caves in the Ozarks.

We will have lunch in historic St. James, one of the oldest communities in the region. It was named after the James family who owned and operated the Meramec Iron Works at Meramec Spring for more than half a century. St. James has a friendly, small-town atmosphere and is home to several wineries that prospered in this area.

After lunch we will visit Meramec Spring, one of Missouri’s eight first magnitude springs. Located southeast of St. James on the Meramec River, it was the site of the state’s first commercially successful iron furnace and the focal point for a thriving early middle 19th century settlement. Its discharge and water-quality characteristics are directly related to its several hundred square mile recharge setting south and southwest of the spring. Water quality at the spring is typically good and development within its recharge area is light to moderate. However, contaminant spills in the recharge area have severely affected water quality for short periods of time. From about 1826 to 1876, the water gushing from Meramec Spring powered the iron works and several other ancillary enterprises. The drop hammers have ceased thundering and the smoke has not billowed from the iron furnace for 125 years, but still the area thrives due to the trout fishing, canoeing, and other recreational activities.

Leader: Mimi R. Garstang, R.G., Division Director and State Geologist, Missouri Department of Natural Resources—Division of Geology and Land Survey,(573) 362-2101, nrgarsm@mail.dnr.state.mo.us

Field Trip #4—Pre-Meeting, 1 day
Abandoned Mine Land Reclamation Sites in Southern Illinois

Date: October 2 (Tuesday)
Time: 8:00 am - 6:00 pm
Cost: $80 - before September 7, 2001
$100 - after September 7, 2001 (Limit 15/45)
(includes transportation; drinks, and lunch.)

Location: Bus pickup in front of the Hyatt Regency

This trip will examine the environmental impacts of coal mining at three abandoned mine sites in southern Illinois. These three sites are among the most contaminated sites in the mid-continent region. Special emphasis will be placed on examining the geologic...
FIELD TRIPS (continued)

hydrologic and geochemical contexts of acid mine drainage formation at these sites. The lunch stop will be Giant City State Park, which features rare weathered sandstone formations.

Leaders: Sean Peters, EIT, Geological Engineer, Patrick Engineering, (217) 525-7050, speters@patrickengineering.com; Phil Smith, Environmental Protection Geologist, Illinois Department of Natural Resources, (217) 782-3697, psmith@dnrmail.state.il.us; Ron Kiser, Environmental Protection Specialist, Illinois Department of Natural Resources, (618) 997-9495, psmith@dnrmail.state.il.us

Field Trip #5—Post-Meeting, 3 days, 2 night
Neotectonics of Southeast Missouri, Featuring the New Madrid Seismic Zone

Date: October 5-7, 2001 (Friday - Sunday)
Time: 5:00 pm departure Friday October 5, 2001; then 8:00 am - 5:00 pm Saturday & Sunday
Cost: $310 - before September 7, 2001
$350 - after September 7, 2001 (Limit 16/45)
(includes transportation; lodging; two nights food and drinks; two lunches; two Quikstart breakfasts)

Location: Bus pickup in front of the Hyatt Regency (bus will return to the hotel and Lambert St. Louis Airport)

This trip will visit the most seismically active area in the Central and Eastern United States, including the site of the 1811-1812 New Madrid, Missouri series of earthquakes considered to be the greatest historic earthquakes experienced in the conterminous United States. Three or more great earthquakes, estimated to be magnitude 7.5 to 8.5, occurred during a three month period of time and almost 2000 earthquakes were felt and logged in a diary at Louisville, Kentucky 250 miles away. Evidence of the effects of those earthquakes is still visible in the form of sand blows, subsided areas, uplift, and landslides. The trip will view bridge seismic-retrofit work in St. Louis as we depart the hotel and, if river conditions permit, a stop will be made in the south St. Louis metro area to look at a paleoliquefaction site. The evening will be spent traveling about 125 miles further south to Sikeston, Missouri and the motel, with a dinner stop en route. Saturday will be a loop tour to the south through Missouri, northern Arkansas (probably), and western Tennessee and Kentucky to visit the New Madrid seismic zone. Stops will include: the town of New Madrid, on the Mississippi River, where on February 7, 1812 two waterfalls formed in the river bed, and where recent building seismic-retrofit projects can be seen; liquefaction features, including huge sand blows and perhaps an excavation where dikes can be seen; earthquake and non-earthquake caused landslides; Reelfoot Lake which was formed due to subsidence during the 1811-1812 earthquakes; and Reelfoot Scarp, the only surface evidence of faulting in the New Madrid seismic zone. The return trip to Sikeston for the night will cross the Mississippi River by ferry boat. Dinner will be unique and entertaining at Lamberts Café, the famous home of Throwed Rolls. Sunday will be spent visiting recently discovered earthquake-related sites in the northern Mississippi Embayment outside the New Madrid seismic zone and along the Commerce Geophysical Lineament. Stops will include trenching sites on Crowleys Ridge that exhibit recent faulting, a paleoliquefaction site (river level permitting), and the sites of seismic-reflection profiles indicating Quaternary faulting. If time and scheduling permit, the lunch break will be at the quaint River Ridge Winery. The trip will then return to St. Louis. During the three days, many additional earthquake and other geologic features may be observed from the bus windows. High top rubber boots are recommended for a few stops or if the weather has been rainy just prior to or during the trip.

Leaders: David Hoffman - Geologist, Missouri Department of Natural Resources, Geological Survey, Rolla, Missouri, 573-368-2144, nrhoffd@mail.dnr.state.mo.us; Richard Harrison - Geologist, USGS, Reston, Virginia; and Eugene Schweig - Geologist and Central US Earthquake Coordinator, USGS, Memphis, Tennessee.

Field Trip #6—Post-Meeting, 1 day
Weldon Spring Site Remedial Action Project in St. Charles, Missouri (2001 Outstanding Environmental and Engineering Geologic Project Award Winner)

Date: October 6 (Saturday)
Time: 8:00 am - 5:00 pm
Cost: $80 - before September 7, 2001
$100 - after September 7, 2001 (Limit 12/45)
(includes transportation; drinks, and lunch.)

Location: Bus pickup in front of the hotel

This trip will trace the history and environmental impact of World War II - Cold War ammunition and uranium metal production sites across the metropolitan St. Louis area and highlight the clean-up of one of those sites. On the way to the Weldon Spring Site Remedial Action Project (WSSRAP) in St. Charles County, this trip will pass by sites in St. Louis City (St. Louis Downtown Site) and County (St. Louis Airport Site) where uranium ore was refined and waste stored during and following World War II. Remediation activities are in progress at all three of these sites.

At the former Weldon Spring Chemical Plant Interpretive Center, Department of Energy and Prime
Professional Development courses will be offered in conjunction with the AEG•AIPG Joint Annual Meeting. Professional Annual Meeting registration for at least one day is required to participate in these courses.

**Understanding Natural Geologic Hazards—What Everyone Should Know**

**Date:** October 2, 2001 (Tuesday)

**Time:** 8:00 am to 3:00 pm

**Cost:** TBA

As geologists, we have special knowledge of the environment and of earth processes that may adversely impact society. Thus, we have a moral obligation to effectively communicate this information to those outside of our profession, especially to those in positions of power than can help mitigate, predict, and even prevent natural geologic hazards from becoming real “natural disasters.”

The course discusses the essential information that the author believes must be covered. It is presented in the fashion that the author deems to be most effective for reaching those outside of our profession. Emphasis is placed in the understanding of earth processes and, specifically, in addressing the best ways to which to mitigate, predict, and even prevent these potentially catastrophic events.

Subjects covered in the course include the following:

- Why study natural geohazards?
- Energy sources, earth processes, and their relationship to natural geohazards.
- Natural disasters through geologic time.
- Weathering, sediment, soil, and key engineering properties.
- Strength of earth materials.
- Foundation problems and possible solutions.
- Landslides, slope instability, and mitigation techniques.
- Earthquake hazards and mitigation techniques.
- Volcanic hazards and mitigation techniques.
- Floods, river processes, and mitigation techniques.
- Ground water-related hazards and mitigation techniques.
- Coastal hazards and mitigation techniques.

Instructor: Robert Font, 972-429-1667.

**Practical Geoscience Ethics: Elements, Examples, and Education**

**Date:** October 2, 2001 (Tuesday)

**Time:** 1:00 am to 5:00 pm

**Cost:** TBA

An increasing number of geoscientists recognize the importance of professional ethics but lack reference material to guide their study of the subject. This course introduces geoscience professional ethics using case histories to illustrate the issues presented. Understanding the ethical basis for and the organization of geoscience ethics guidelines and codes provides a foundation for examining what is and is not covered by professional ethics, including the difference between ethical rules, which should always be followed, and ethical ideals towards which we strive. A methodology for examining specific cases from an ethical perspective is included. The AGI Geoscience Ethics Guidelines and the AIPG Ethics Code will be used as primary examples; other geoscience ethics codes will be included in the handouts. The course also covers methods for including discussions of professional ethics within a geoscience curriculum. Course participants should gain a better understanding of the basis for geoscience ethics, the fundamental concepts involved, the existence of exceptions to the general rules, and that discriminating between differing facts of specific case histories can radically impact how a situation is viewed. For example, we all recognize the general rule that faculty members should not sleep with students. The most obvious exception to this rule is when the faculty member and student are married. Whether other exceptions exist will be discussed and debated including a discussion of the basic issues underlying the rule: conflicts of interest and differences in positional power.

The course is designed for practicing geoscientists desiring a better grounding in professional ethics and professors desiring both better understanding of the subject and ideas on how to teach professional ethics in an already overcrowded curriculum. Interested students are welcomed.

Instructors: David M. Abbott, Jr., CPG, PG-WY, Chairman, AIPG Ethics Committee and Consulting Geologist, 303-394-0321, dmageol@aol.com; and John W. Williams, CPG, PG-CA, Professor and Chair of the Department of Geology, San Jose State University.
**AIPG Continuing Professional Development Program (CPD)**

Date: October 3, 2001 (Wednesday)
Time: 1:00 pm to 4:00 pm
Cost: TBA

Continuing education and certification/license renewal are coming for larger numbers of geologists, especially those whose work affects the public’s health, safety, and welfare. Most AIPG Certified Professional Geologists (CPGs) realize that efforts to keep up with changes and advances in their geologic specialty are necessary, but their personal efforts may fall short.

Strong support for voluntary continuing education program for existing CPGs has been indicated. In response, a Task Force has promulgated a CPD proposal for a voluntary continuing education program in support of periodic (6-year) certification renewal at a higher level: Certified Master Professional Geologist (CMPG).

The proposed CPD program will be mandatory for CPGs certified the date the enabling Bylaws are adopted. Participation by current CPGs is NOT required, although they may participate voluntarily.

Suggestions for alleviating complexity that are received in advance will be discussed by Tom Fails, and additional suggestions will be taken from the floor. However, those suggestions received before the Annual Meeting inevitably will receive greater measured consideration and discussion than those received from the floor, and MAY become a part of a recommendation at the Annual Meeting session. If you have a constructive comment on reducing complexity, please let Tom Fails know soon.

Instructor: Tom Fails, CPG-03174, Chairperson, Task Force for Continuing Professional Development. Tom is a Past-President of AIPG (1999) and has been a petroleum explorationist since 1956. After 10 years with Shell, he rejoined Trend Exploration and was Vice President for European Exploration until 1975. Fails is currently President of Pannonian International, Ltd., and is owner/president of Raven Exploration Corporation.

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**Governing a Nonprofit Board—Developing Leaders for AIPG•AEG**

Date: October 5, 2001 (Friday)
Time: 1:30 pm to 5:00 pm
Cost: TBA

This course is designed for any member of AIPG•AEG who is, may be, or wishes to take a leadership position in any nonprofit board—be it AIPG•AEG or another professional society, the scouts, your church or other civic organization, local government, or a committee where you work. Topics to be presented and discussed include:

- Evolution of nonprofit organization
- Leadership vs. management
- Power vs. authority
- Leadership ethics vs. principles
- Responsibilities of a board member
- Financial management and fiscal policy (What is a financial statement?)
- Cash flow vs. accrual (What are accepted accounting principles?)
- Fund raising, marketing, and membership growth
- Limiting liability
- Contracting
- Strategic planning
- Chairing a committee and Robert's Rules of Order (Who was Robert anyway?)

Examples from the leadership history of the Association of Engineering Geologists, other societies, and local government will be presented for discussion and evaluation by the participants. Participants will gain a broad understanding of how to serve in a volunteer position of leadership of any organization. The course will be organized in a seminar format to allow open discussion for the mutual education of all.

Instructor: Christopher C. Mathewson, Executive Director, Association of Engineering Geologists and Professor of Engineering Geology, Texas A&M University, 979-845-2488.

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**SHORT COURSES**

Four short courses will be offered in conjunction with the AEG•AIPG Joint Annual Meeting. The courses were selected to offer attendees a wide variety of educational opportunities. Each course will be accredited for continuing education units (CEU's) and include course materials and coffee/soda breaks. Partial CEU's will not be given. Professional Annual Meeting registration for at least one day is required to participate in the short courses.

**Short Course #1—Construction in Karst: What can go wrong and how to fix it**

Date: October 1, 2001 (Monday) - 0.9 CEUs
Time: 8:00 am to 5:00 pm
Cost: $150 (Limit 25)

This is a unique karst mitigation how-to course that will open your eyes to the unpredictable nature of karst and the unconventional approaches sometimes needed for constructing in karst-prone areas. This course will complement the karst field trip on Tuesday and the karst mitigation symposium on Wednesday. After an introduction about the formation and occurrence of karst by one of Missouri’s leading karst experts, the course dives into two distinct topics: pre-construction preventive measures and post-construction fixes. Pre-construction preventive measures will address exploration techniques, shallow treatments and foundation designs. Post-construction fixes will include ground water controls and structural controls. The seminar will address design and implementation of remedial approaches utilizing open forum discussions and case studies.

Short Course #2—Advances in Stream and River Management—A Short Course with a Field Trip

Date: October 1, 2001 (Monday) - total of 1.4 CEUs
Time: 8:00 am to 12:00 pm (Monday)
Cost: $300 (Limit 25)

This short course was well received when previously presented to U.S. EPA Region VII. Over the past few decades, river users, riverside residents and taxpayers alike have begun to demand an approach to river management that accommodates multiple functions. Floodwater conveyance while still critical, now shares priority with erosion control, recreational, aesthetic, and wildlife uses. Moreover, life cycle costs and watershed stability are increasingly important considerations. Meeting these requirements requires a far more sophisticated and elegant approach to river analysis. In this workshop we will present how fluvial geomorphology provides powerful insight into how rivers behave and how this knowledge informs modern channel design. The application of aerial photo interpretation, lineation analysis, evaluation of channel morphology, and other diagnostic techniques relevant to river stability will be presented. Geomorphically-based methods for improving stream stability also will be presented. Discussion will focus on management of urban streams with particular emphasis on restoration of form and function. Several case studies of highly disturbed streams and rivers will be presented. The workshop will end with a field visit to an urban stream where participants can examine field diagnostic indicators and constructed channel and streambank treatments.


Short Course #3—ASFE Loss Prevention Short Course—Field Representation

Date: October 2, 2001 (Tuesday) - 0.9 CEUs
Time: 8:00 am to 5:00 pm
Cost: $175 (Limit 25)

This is a course for field personnel and their supervisors. Explained in the course are a variety of do's and don'ts and the "why" of each. Course topics include: the technician's role on site; understanding the U.S. court system; types of liability (professional, contractual, negligent, misrepresentation, conflict of interest, and breach of fiduciary responsibility); the role of insurance; the typical claim; preventing claims through effective attitude and behavior; handling small projects (a perennial source of big problems); preventing communications breakdowns; parts of speech and effective reporting; and field journals. The course is accentuated with numerous case histories and is presented by John Bachner, who has been ASFE's professional liability loss prevention advisor since the late 1970's. John is a top-flight seminar leader who keeps participants' attention with a fast-paced (and sometimes irreverent) presentation style.

Instructor: John Bachner, Bachner Communications; and ASFE, 301-587-6048

Short Course #4—Hydrocarbon Tracers for Differentiating Fuel Type, Source, and Extent of Weathering

Date: October 6, 2001 (Saturday) - 0.45 CEUs
Time: 8:00 am to 12:00 pm
Cost: $75 (Limited to 30)

Several trace compounds belonging to different homologous series of hydrocarbon families have been recognized as important in determining the fuel type; the source of crude-oil blends used for manufacture of refined products; differentiation of crude oil and refined oil; differentiation of coal-derived hydrocarbons from petroleum-derived hydrocarbons and relative extent of weathering which may translate into time of release of a hydrocarbon fuel. Most of these tracers are not part of the recommended EPA list of analyses and can only be derived by high-resolution gas chromatography or full-scan GC-mass spectrometry. For some of the tracers, stable-isotope analyses are useful when applied to hydrogen, carbon or sulfur in the released contaminant, or to radioactive isotopes in lead additives to gasoline.

The workshop will examine these various tracers, discuss their mode of identification and evaluate how they can be used to solve litigation suits.

SPECIAL FUNCTIONS (continued)

**EXHIBITORS LUNCHEON**

**Date:** October 3, 2001 (Wednesday)  
**Time:** 12:00 noon - 1:30 pm  
**Cost:** Complimentary to Annual Meeting Registrants and Spouse/Guests

The Exhibitor Luncheon will be served in the Exhibitors' Area, compliments of the exhibitors. This lunch is a very special function, because it allows attendees to show support to the many companies that have made the Joint Annual Meeting possible. Remember that a meeting of this caliber would not be possible if it were not for the generous support the exhibitors offer AEG and AIPG!!

**THE GATEWAY VISIT TO ST. LOUIS**

**Date:** October 3, 2001 (Wednesday)  
**Time:** 6:30 pm to 10:00 pm  
**Cost:** $40.00

Come join your colleagues for a private dinner reception and open bar at the world-famous Gateway Arch! The Gateway Arch is completely hidden from view. All that can be seen is its sparkling stainless steel outside skin and inner skin of carbon steel, which combine to carry the gravity and wind loads to the ground. The Arch has no real structural skeleton. Its inner and outer steel skins, joined to form a composite structure, give it its strength and permanence.

Buses will pick you up from the Hyatt hotel and transport you to the Arch where you will be met with Hor D’oeuvres and cocktails in the central lobby area. Spend time catching up with old friends, stroll the Arch’s Museum of Westward Expansion that tells the century-long story of the opening of the West in the 1800s, or view a movie about the construction of the Arch. Catch a breathtaking view of the St. Louis skyline by taking a tram to the viewing area at the top of the Arch. Trinkets to remember your visit will be available at the gift shop, which will be open during the event.

**SPEAKERS’ & MODERATORS’ BREAKFAST**

**Date:** October 3, 2001 (Wednesday)  
**October 4, 2001 (Thursday)**  
**October 5, 2001 (Friday)**  
**Time:** 6:30 am - 8:00 am  
**Cost:** Complimentary to Speakers & Moderators

A Speakers’ and Moderators’ Breakfast will be held each morning for the day’s speakers and session moderators. This breakfast is required for Speakers and Moderators. Speakers, register at the breakfast and discuss the mechanics for your presentation with your Moderator. The breakfast is a great time to get acquainted with your session’s speakers as well as to review the procedures for the day. The breakfast is for speakers and moderators only on the day of their presentation.

**WOMEN IN AEG•AIPG•AWG BREAKFAST**

**Date:** October 4, 2001 (Thursday)  
**Time:** 7:00 am - 8:30 am  
**Cost:** TBA

Join members of the Association of Engineering Geologists, the American Institute of Professional Geologists, and the Association for Women Geoscientists at our networking breakfast. All parties interested in enhancing the professional growth and advancement of women in the geosciences are encouraged to attend!

**AEG CORPORATE BUSINESS MEETING AND LUNCHEON**

(Sponsored by AMEC Earth & Environmental, Inc.)  
**Date:** October 4, 2001 (Thursday)  
**Time:** 12:00 noon - 1:30 pm  
**Cost:** TBA

Are you a leader in AEG, about to undertake new responsibilities in AEG, or just interested in the Association’s plans for the future? Want to see, hear, and meet the leaders? This event is for you!! Association officers, board members, and committee managers will be there to participate, report on their activities, witness the installation of new officers, and attend the President’s Awards Ceremony. Participate in our Annual Corporate Business Meeting/Luncheon and have fun doing it, too!

**JOINT AEG•AIPG 2001 ANNUAL BANQUET**

**Date:** October 4, 2001 (Thursday)  
**Time:** 6:30 pm - 7:15 pm: Reception  
7:15 pm - 10:30 pm: Dinner  
**Cost:** TBA

After a reception and mingling with friends, enjoy a delicious dinner, visit some more with friends, and recognize the award winners who have given so much to our industry and Associations. This is your opportunity to recognize them and also pay tribute to their accomplishments. A cash bar reception starts at 6:30 pm. Dinner includes wine (two bottles to a table, only).

**JOINT AEG AND AIPG PAST PRESIDENTS’ BREAKFAST**

**Date:** October 5, 2001 (Friday)  
**Time:** 6:30 am to 8:00 am  
**Cost:** TBA

All Past Presidents of AIPG and AEG are encouraged to attend this special breakfast. This is a unique opportunity to bring together the Past Presidents of both organizations. This is a semi-social function for our members that have offered our societies so much more time and energy.

**AIPG BUSINESS MEETING & LUNCHEON**

**Date:** October 5, 2001 (Friday)  
**Time:** 12 noon to 2:00 pm  
**Cost:** TBA

All annual meeting attendees and their guests are cordially invited to join the American Institute of Professional Geologists for lunch. The AEG and AIPG Joint Annual Meeting offers four exciting spouse/guest tours.
Spouse/Guest Trip #1—Forest Park and the Missouri Botanical Garden

Date: October 2, 2001 (Tuesday)
Time: 9:00 am to 3:00 pm
Cost: $61.00
Location: Bus pickup in front of the Hyatt Regency

Forest Park was the site of the famous 1904 World's Fair and is one of the largest city parks in the country. You will see (auto tour only) a few of the Fair remnants and several St. Louis' cultural institutions including the world famous St. Louis Zoo, the St. Louis Art Museum, the History Museum at the Jefferson Memorial, the Science Center and the Muny, among other attractions. <http://stlouis.missouri.org/city-gov/parks/forestpark/>

Bordering Forest Park you will view the grand mansions on Lindell Boulevard, fine examples of the "Golden Age" of St. Louis at the turn of the century and many of the mansions housed dignitaries during the Fair. You will also see the prominent Washington University, which was the headquarters of the Fair. You will enjoy a gourmet buffet lunch at the History Museum, where you will have time to view the new exhibits focusing on the history and people of St. Louis. <http://www.mohistory.org/>

Next you will visit the 79-acre oasis of natural beauty in the midst of the city, the Missouri Botanical Garden. The oldest botanical garden in the country and a National Historic Landmark, the Garden has been internationally recognized for horticulture, education, and scientific research since its founding in 1859. It is truly a St. Louis Treasure! Here you will find the flora of climates as diverse as the tropical rainforest and the driest desert. Visit the Climatron, the first geodesic dome greenhouse based on Buckminster Fullers futuristic design. Included is a visit to the 14-acre Japanese Garden, considered one of the finest outside Japan with its faithful replicas of natural waterfalls, beaches, and islands. Also located in the Garden is the new Chinese Garden, a rose garden with 6,000 varieties, an herb garden, English woodlands, a scented garden, the Tower Grove House, the Desert House, Brookings Interpretive Center and much more. After a narrated tram tour of the grounds, you will have time to visit your favorite areas at your own pace. <http://www.mobot.org/>

Spouse/Guest Trip #2—Show Me St. Louis

Date: October 3, 2001 (Wednesday)
Time: 9:00 am to 3:00 pm
Cost: $52.00 (includes all admissions, seated lunch at Lynch Street Bistro—or similar restaurant, Destination St. Louis tour guide, minicoach transportation, and on-site coordination).
Location: Bus pickup in front of the Hyatt Regency

This tour begins with a driving tour of the City's original settlement, Laclede's Landing. It is now a nine block historic district filled with renovated turn-of-the-century buildings housing shops, eateries and offices. The first stop is the Old Courthouse, famous for the Dred Scott Decision, followed by a seated lunch in Soulard, one of St. Louis's most historic neighborhoods. <http://www.nps.gov/jeff/och.htm>

After lunch, it's on to Anheuser-Busch Brewery for a tour. Home of the world's largest brewer and situated in a complex with over 71 red brick structures on 100 acres, the brewery buildings are known for their unique architecture, several of which are National Historic Landmarks. During the tour, you will see the World Famous Clydesdales, the Fermentation Building, the Brew House, the Packaging Plant, and a film about the brewing process. No visit would be complete without a stop in the hospitality room to sample the family of Anheuser-Busch products. <http://www.budweisertours.com/>

The last stop, time permitting, is a tour of the St. Louis Cathedral, which has the largest collection of Mosaics in the world - 84,000 square ft in 8,000 shades of color! You will pass the historic Central West End neighborhood and mansions bordering Forest Park, fine examples of the "Golden Age" of St. Louis at the turn of the Century. <http://www.cathedral-stl.org/home.htm>

Spouse/Guest Trip #3—Missouri Wine Country

Date: October 4, 2001 (Thursday)
Time: 9:00 am to 4:00 pm
Cost: $46.00
Location: Bus pickup in front of the Hyatt Regency

Your tour guide will familiarize you with the past and present of Missouri winemaking history during the drive to Augusta, Missouri. Wine production has been a part of Missouri's heritage since the mid 1800's. At the turn of the century, Missouri ranked second in the nation in wine production.

Augusta offers bakeries, cheese shops, and restaurants nestled in the rolling hills. At the Mt. Pleasant Wine Company, founded in 1881, you will tour the old stone wine cellars and sample wine. <http://www.mountpleasant.com/>

Lunch will be at a restaurant located in the heart of Augusta. After lunch, you will visit Blumenhof Winery where German heritage is abundant in this friendly and relaxing ambiance that invites you to stop and smell the flowers! The group will enjoy a wine tasting. <http://www.blumenhof.com/>

Spouse/Guest Trip #4—St. Louis Zoo and Science Center

Date: October 5, 2001 (Friday)
Time: 9:00 am to 3:00 pm
Cost: $10.00 (lunch on your own)
Location: Bus pickup in front of the Hyatt Regency

Can you come out and play? The St. Louis Zoo is located in the heart of Forest Park and is considered by many, to be the nations finest. Visit the Antelope House, Bear pits, Big Cat Country, Bird House and Garden, 1904 Flight Cage, Herpetarium, St. Louis Children's Zoo, The Living World, Sea Lion Show, Primate House, and much, much more. <http://www.stlzoo.org/home.asp>

The St. Louis Science Center also is located near Forest Park. Enjoy special exhibits like the current Grossology exhibit on the Impolite Science of the Human Body, the DNA Zone and Cyberville. Spend time in the McDonnell Planetarium or take in a movie at the Omnimax Theater. <http://www.slsc.org/>
AIR TRAVEL

Airport: Guests may ride the MetroLink, St. Louis’s light rail system, from the Lambert International Airport to Union Station.

As you depart from Terminals A or B, follow the hallway through security. Immediately go right and up the escalator. Turn right and follow the signs to the MetroLink (314-231-2345).

As you depart Terminals C or D, follow the hallway through security and continue to Baggage Claim. Once in Baggage Claim, follow the signs to the MetroLink.

The cost from the airport to the Union Station exit is $3.00 (you may use up to a $10 bill and receive change). Purchase your ticket at the airport and follow the instructions for validating the ticket.

Take the Union Station exit. Take either the elevator or the stairs to the main level and follow the directions on Page 22 to the Hyatt Regency Hotel.

To take the MetroLink from the Union Station exit back to Lambert International Airport is only $1.25.

Taking the MetroLink is recommended for attendees with only a couple of smaller pieces of luggage and who do not mind a short walk. It is an excellent choice versus renting a car.

The Metrolink runs from 5:00am–midnight, Monday through Saturday, and 5:30am–11:00pm, Sunday.

The hotel does not have an airport shuttle but the Trans Express Shuttle (314-427-3311—call if pickup is needed after last run at 10:00pm) may be taken to the Hyatt from the airport (and from the hotel to the airport). The cost is $10.00 one way, or $18.00 round trip. Trans Express has two locations in the Main Terminal (Lower Level)—the Main Desk is located between Exits 11 and 12 at Baggage Claim, Carousel #2; the second desk is between Exits 17 and 18, Carousel #6.

One way taxi services generally cost $25.00 to $30.00.

AUTOMOBILE TRAVEL

The Hyatt Regency Hotel can be reached by any one of the major highways and interstates leading into St. Louis. When leaving Lambert International Airport, take Interstate 70 East. Continue on I-70 East to downtown St Louis. Exit I-70 at Broadway, in front of the TWA Dome. Continue south on Broadway to Market Street, approximately 5 blocks. Turn right (west) on Market Street and continue to Union Station. Union Station is located at 18th Street and Market.

Parking in the area of Union Station averages $8.00 per day in the surface parking lots around the area. Parking lots are located at the south end of the Union Station complex and immediately west of Union Station behind Maggie O’Brien’s Restaurant along 20th Street.

PLEASE BE AWARE: The Hyatt Regency does not have any arrangement for parking. The parking areas are owned by a private company and you will have to pay parking every day. The Hyatt can validate you parking lot ticket, but you will be assessed a charge for the validation.

WEATHER AND ATTIRE

The average temperature in the Fall in St. Louis is usually in the high 60’s and 70’s; however, this is a period of transition. Daytime highs in the middle 80’s are not unusual. One is advised to bring a light jacket for the evening, as well as an umbrella for possible showers.

Recommended attire for the technical sessions is business casual. For the field trips, see each trip’s description. The joint Annual Banquet is a semi-formal affair. Attire for the Gateway Arch special event is business casual.

HOTEL RESERVATIONS

When making your reservations at the Hyatt for the 2001 Annual Meeting, it is important that you identify yourself as an American Institute of Professional Geologists or Association of Engineering Geologists member. Do not use the acronym. This will assure you of receiving the attractive, specially-negotiated rate for the meeting. If you are not a member of either group, we ask that you still identify yourself as being with one or the other so you receive the special rate and that we can meet our contractual room-night commitment. There are a limited number of rooms set aside at the government rate for those who qualify, on a first-come, first-served basis. If you have any questions, please do not hesitate to contact Julie Keaton at 909-337-0657. Thank you.

We look forward to seeing you in St. Louis!
HOW TO GET FROM THE METRO STATION STOP, THROUGH UNION STATION, TO THE HYATT REGENCY

[Diagram of the area showing various locations and routes]
# Registration Form

**AEG • AIPG 2001 Joint Meeting**

Association of Engineering Geologists and American Institute of Professional Geologists

**SEPTMBER 30 – OCTOBER 7, 2001**

<table>
<thead>
<tr>
<th>NAME (LAST)</th>
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<th>(MI)</th>
<th>NAME FOR BADGE</th>
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<tbody>
<tr>
<td>NAME OF SPOUSE/GUEST</td>
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(Please list attending children's names and ages.)

<table>
<thead>
<tr>
<th>ADDRESS</th>
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<tbody>
<tr>
<td>COMPANY/INSTITUTION</td>
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<tr>
<td>CITY/STATE/ZIP</td>
</tr>
<tr>
<td>PHONE NUMBERS</td>
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<tr>
<td>FAX NO.</td>
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</table>

## Annual Meeting Registration

<table>
<thead>
<tr>
<th></th>
<th>Before 9-7-01</th>
<th>After 9-7-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Registration: AEG or AIPG Member</td>
<td>$220.00</td>
<td>$275.00</td>
</tr>
<tr>
<td>Full Registration: Non-Member</td>
<td>$290.00</td>
<td>$350.00</td>
</tr>
<tr>
<td><strong>AEG NON-MEMBERS -- Save $70 on your registration fee by filling out and mailing in AEG's Membership Form.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate Registration (one floating registration pass for your employees for the three days of technical sessions)</td>
<td>$350.00</td>
<td>$350.00</td>
</tr>
<tr>
<td>Short Course ONLY Limited Registration *</td>
<td>$40.00</td>
<td>$50.00</td>
</tr>
<tr>
<td>Field Trip ONLY Limited Registration *</td>
<td>$40.00</td>
<td>$50.00</td>
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<tr>
<td>Student (full time with proof of current enrollment)</td>
<td>$50.00</td>
<td>$70.00</td>
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<tr>
<td>Spouse/Guest Nonprofessional Registration: with Full Time Student □</td>
<td>$10.00</td>
<td>$15.00</td>
</tr>
<tr>
<td>with Full Member / Non-Member □</td>
<td>$25.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>Daily Full Member Registration: 10/3 (Wed) □ 10/4 (Thurs) □ 10/5 (Fri) □</td>
<td>$110.00</td>
<td>$130.00</td>
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<tr>
<td>Daily Non-Member Registration: 10/3 (Wed) □ 10/4 (Thurs) □ 10/5 (Fri) □</td>
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<td>$150.00</td>
</tr>
<tr>
<td>Daily Student Registration: 10/3 (Wed) □ 10/4 (Thurs) □ 10/5 (Fri) □</td>
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## AEG Field Trips (requires regular or limited-field-trip reg.)

<table>
<thead>
<tr>
<th>No.</th>
<th>Before 9-7-01</th>
<th>After 9-7-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1: Site Characterization: Joplin Lead-Zinc Dist. (9/29-10/1)</td>
<td>[3 days]</td>
<td>$270.00</td>
</tr>
<tr>
<td>#2: St. Francois Mountains (with Mine Tour) (10/1 &amp; 2)</td>
<td>[2 days]</td>
<td>$210.00</td>
</tr>
<tr>
<td>#3: Ozark Plateau Karst Geology (10/2)</td>
<td>[full day]</td>
<td>$80.00</td>
</tr>
<tr>
<td>#4: Abandoned Mine Land Reclamation Sites: SE IL (10/2)</td>
<td>[full day]</td>
<td>$80.00</td>
</tr>
<tr>
<td>#5: Neotectonics: MO/New Madrid Seis. Zone (10/5-7)</td>
<td>[3 days]</td>
<td>$310.00</td>
</tr>
<tr>
<td>#6: Weldon Spring Site: St. Charles, MO (10/6)</td>
<td>[full day]</td>
<td>$80.00</td>
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## Short Courses (requires regular or limited-short-course reg.)

<table>
<thead>
<tr>
<th>No.</th>
<th>Before 9-7-01</th>
<th>After 9-7-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1: Construction in Karst (10/1)</td>
<td>[full day]</td>
<td>$150.00</td>
</tr>
<tr>
<td>#2: Advances in Stream River Management (10/1 &amp; 2)</td>
<td>[2 days]</td>
<td>$300.00</td>
</tr>
<tr>
<td>#3: ASFE Loss Prevention – Field Representation (10/2)</td>
<td>[full day]</td>
<td>$225.00</td>
</tr>
<tr>
<td>#4: Hydrocarbon Tracers (10/6)</td>
<td>[one day]</td>
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## Professional Development Courses

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<th>No.</th>
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</thead>
<tbody>
<tr>
<td>#1: Practical Geoscience Ethics (10/2)</td>
<td>[half day]</td>
<td>$175.00</td>
</tr>
<tr>
<td>#2: Understanding Natural Geologic Hazards (10/2)</td>
<td>[full day]</td>
<td>$225.00</td>
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</tbody>
</table>

**REGISTRATION FORM CONTINUED ON OTHER SIDE**

Subtotal: $

* Not required if you are registering for at least one day of technical sessions.
### REGISTRATION FORM -- cont’d

#### SPECIAL EVENTS (requires conference registration)

<table>
<thead>
<tr>
<th>Event</th>
<th>No. Tickets</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ice Breaker Reception (Tuesday, Oct. 2)</td>
<td></td>
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<tr>
<td>Exhibitors’ Luncheon (Wednesday, Oct. 3)</td>
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<tr>
<td>Special Event: The Gateway Visit to St. Louis (private dinner</td>
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<tr>
<td>reception at the Gateway Arch) (Wednesday, Oct. 3)</td>
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<tr>
<td>Women in AEG•AIPG•AWG Breakfast (Thursday, Oct. 4)</td>
<td></td>
<td>$40.00</td>
</tr>
<tr>
<td>AEG Corporate Business Meeting &amp; Luncheon (Thursday, Oct. 4)</td>
<td></td>
<td>$25.00</td>
</tr>
<tr>
<td>Joint AEG•AIPG 2001 Annual Banquet (Thursday, Oct. 4)</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td><strong>TAKE A STUDENT TO DINNER</strong> -- Buy an Annual</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td>Banquet Ticket and Donate to One of our Participating Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>STUDENT</strong>: If you are interested in participating in &quot;TAKE A</td>
<td></td>
<td></td>
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<tr>
<td>STUDENT TO DINNER&quot; -- please check here: ☐</td>
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</tr>
<tr>
<td>AIPG Business Meeting &amp; Luncheon (Friday, Oct. 5)</td>
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<td>$25.00</td>
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<tr>
<td>Speakers’/Moderators’ Breakfast:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10/3 (Wed)  ☐  10/4 (Thurs)  ☐  10/5 (Fri)  ☐</td>
<td></td>
<td>Complimentary</td>
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#### SPOUSE/GUEST ACTIVITIES

<table>
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<tr>
<th>Activity</th>
<th>No. Tickets</th>
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<tbody>
<tr>
<td>#1: Forest Park &amp; MO Botanical Garden Tour (Tuesday, Oct. 2)</td>
<td></td>
<td>$61.00</td>
</tr>
<tr>
<td>#2: Show Me St. Louis (Wednesday, Oct. 3)</td>
<td></td>
<td>$52.00</td>
</tr>
<tr>
<td>#3: Missouri Wine Country Tour (Thursday, Oct. 4)</td>
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<td>$46.00</td>
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<tr>
<td>#4: St. Louis Zoo and Science Center Tour (Friday, Oct. 5)</td>
<td></td>
<td>$10.00</td>
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</table>

#### TEACHERS WORKSHOP (held Saturday, October 6)

<table>
<thead>
<tr>
<th>Select One for the Morning:</th>
<th>No. Tickets</th>
<th>TOTAL AMOUNT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ #1: Geologic Walking Tour of Downtown St. Louis</td>
<td></td>
<td>$40.00</td>
</tr>
<tr>
<td>☐ #2: St. Louis Science Center</td>
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<td>$40.00</td>
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<tr>
<td>Afternoon Workshop: NASA</td>
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</tbody>
</table>

#### SPECIAL NEEDS:

- PREFER VEGETARIAN MEALS: ☐
- DIABETIC: ☐
- MAKE CHECK PAYABLE TO “AEG•AIPG 2001”

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Why is it.. ?

I never learn to never assume?

I’ve been reading Irons in the Fire (1997) by John McPhee. It’s a collection of essays, including one about forensic geology and the role it has played in the investigation of crime and in the planning of military operations during World War II. (I learned from McPhee’s book that there was a Military Geology Unit of the USGS during WWII, and that President Roosevelt held a grudge against the USGS because research conducted at the President’s request could not validate the presence of square bubbles in the water at Warm Springs, Georgia. No more—you’ll have to read the details for yourself.) All John McPhee’s writing is fascinating, easily read, educational, and thoroughly enjoyable.

The Military Geology Unit was created to provide critical data to military operations planners. Aside from insight into President Roosevelt’s obstinacy, what absolutely amazed me most was the revelation by a USGS geologist interviewed by McPhee that the army personnel who used the information supplied by the Military Geology Unit could not read topographic maps! They had no ability to “see” the three dimensional presentation that is the topographic map. In order to assist the army planners in applying the geologically pertinent information, USGS geologists were required to prepare drawings that simulated the oblique perspective seen from an airplane flying over the terrain in question.

Can you appreciate that at least some military planners of WWII could not read topographic maps? Not that it’s all that important a point now, but when I read that little anecdote, the first thought through my incredulous mind was “How is it possible that an Army official cannot read a topographic map?” I just what were the implications of such a fundamental deficiency? Apparently not too dramatic, thankfully. But the revelation made me realize, again, that I should never assume anything. It’s implicit after all, isn’t it, that army personnel involved with combat operations all have learned how to read topographic maps?

Relating this fascinating tidbit from John McPhee’s book is my long-way-round-the-barn way of making a point about professional advocacy and community. All through my life I have been learning from experience to expand my horizons and keep an open mind. At times, keeping an open mind has been a daunting task. I have a sometimes naive tendency to think that when a professional issue is the topic, all geologists will pull in generally the same direction, because it’s in the best interest of the entire community. Of course, this is not reality.

For example, consider the issue of professional registration. As I understand AIPG history, AIPG has never stood in the way of professional registration, but has always advocated for statutes which were equitable and just. AIPG has always proceeded on the basis of that which will provide the greatest good for the largest number of practitioners, within the bounds of proper ethics and professionalism. This approach does not preclude differences of opinion among the community, but does allow for these differences to be debated objectively and sometimes vigorously. A recent issue of TPG contained an article by a member who is philosophically opposed to registration on the grounds that in general it represents restraint of trade. This is a perfectly legitimate exercise of a member’s prerogative to voice an opinion, even if the opinion may not be of the majority. The article elicited some very strong contrary reaction. When invited to submit an article for TPG, one source with an opposing viewpoint was not inclined to express an equally convincing argument to the contrary through an open forum.

Could this be an example of my making an incorrect assumption that all practitioners are interested in strengthening recognition for geology and geologists by cooperative, not contrarian, actions? I suppose the geologic community constitutes a microcosm of larger society. Some cannot recognize the necessity of constructive compromise as a means of accomplishing that which we all want to see for our chosen profession—a recognized place among other professions contributing to our society.
As reported in two AGI Special Updates, President Bush released the details of his Fiscal Year (FY) 2002 budget request for Congress on April 12th, having released an outline in early March. As expected from that earlier blueprint, science funding did not fare well. For the geosciences, the big losers were the U.S. Geological Survey (USGS) and the Department of Energy (DOE) Fossil Energy research program. A strong show of support from the geoscience community and an internal education effort helped to reduce a cut to the USGS from 22 percent initially to 8 percent in the final request. The cut is not evenly distributed—the Water Resources Division faces a 21 percent decrease compared to 5-7 percent cuts in the other divisions. The reduction in the Survey’s budget pales in comparison to cuts of over 50 percent for petroleum and natural gas research programs in DOE’s Office of Fossil Energy. Those cuts reflect a major shift by the new administration toward “clean coal” research. The National Science Foundation’s Geoscience Directorate is slated for a small cut, and no funding is provided for EarthScope. NASA’s earth science programs are down 14 percent relative to FY 2001. NOAA is slated for a 2 percent cut overall, but Oceanic and Atmospheric Research is up nearly 5 percent. DOE science programs would receive flat funding, but DOE’s high-level nuclear waste disposal project would receive a 14 percent boost in anticipation of presidential approval of the Yucca Mountain site. Science programs at EPA are down 8 percent. The Department of Defense will release its budget in May—please let us know which DOD accounts are important to geoscience and that we should cover in a future update. Copies of the two Special Updates are available at http://www.agiweb.org/gap/legis107/budget_update1_0401.html and at http://www.agiweb.org/gap/legis107/budget_update2_0401.html.

Norton Testifies Before House, Senate Appropriators

On April 24th and 25th, Secretary of the Interior Gale Norton testified before both the House and Senate Interior Appropriations Subcommittees regarding the Interior Department’s FY 2002 budget request. At both hearings, Norton was upbeat about the Interior request, despite significant cuts from the FY 2001 enacted budget. At the House hearing, she stated that the budget is “compassionate in the way it protects our environment and conservative in how it spends taxpayers’ money and gives local people more control over the lands they know and the lands they love.” Both Republican and Democratic members raised concerns about the proposed cuts to the U.S. Geological Survey (USGS) budget. At the House hearing, Rep. Zach Wamp (R-TN) simply stated that the technology and science budget of the USGS needed to be maintained. Norton explained that the cuts reflect the fact that the USGS fully supports many programs that are used by other agencies or the public. She suggested that the USGS partner with these entities to complete its mission. Rep. Jim Moran (D-VA) requested that Norton delineate the manner in which vital USGS programs that would be drastically cut by this budget will be taken up by other parts of the president’s request. Norton admitted that the USGS structure was still being analyzed within DOI and more information would be forthcoming. Rep. Ralph Regula (R-OH) expressed frustration that he had been part of a group of legislators that had to fight for the USGS budget just a few years ago. The group was finally confident that the agency was appropriately consolidated and goal oriented, only to have to start all over again. Regula explained the critical role that the USGS plays as the only scientific body within Interior and the importance of agency programs that support actions in other parts of government. A full hearing summary is available on the AGI website http://www.agiweb.org/gap/legis107/norton_hearing.html. AIP coverage of both hearings can be found at http://www.aip.org/enews/fyi/2001/057.html.

Aapg Hosts Washington Energy Summit

On April 23rd, the American Association of Petroleum Geologists (AAPG) convened a summit in Washington D.C. to discuss United States energy policy. The conference, held at the Army & Navy Club, brought together petroleum geologists and policymakers from federal and state agencies, Capitol Hill, and non-governmental organizations. AAPG President Marlan Downey challenged the group to think about the longer term. The acting Assistant Secretary for Fossil Energy at the Department of Energy (DOE), Robert Kripowicz, spoke about the need for a more balanced and hence stable energy policy. The majority staff scientist and the minority staff director of the Senate Energy and Natural Resources Committee, Bryan Hannegan and Robert Simon, outlined and contrasted the Republican (S. 388 and S. 389) and Democratic (S.596 and S.597) energy proposals. USGS Director Charles "Chip" Groat outlined the USGS’s estimations of oil and gas resources under U.S. public lands. William Fisher of the University of Texas at Austin summarized the proceedings and laid out key elements of a national energy strategy. The event was co-convened by the American Association of Professional Landmen, American Institute of Professional Geologists, Association of American State Geologists, Society of Independent Professional Earth Scientists, and Society of
Alert: Senators Seeking to Boost NSF Funding

As reported in an AGI alert on April 6th, Senators Christopher "Kit" Bond (R-MO) and Barbara Mikulski (D-MD) have prepared a “Dear Colleague” letter calling on the Senate leadership to support doubling the National Science Foundation (NSF) budget over the next five years. Building on an effort begun last year, Bond and Mikulski—the Chairman and Ranking Member, respectively, of the Senate Appropriations subcommittee that funds NSF—are asking their peers to sign on to the letter that they plan to send to Majority Leader Trent Lott (R-MS) and Minority Leader Tom Daschle (D-SD). The alert is available at http://www.agiweb.org/gap/legis107/bond_alert0401.html.

Senate Unanimously Passes Brownfields Legislation

After years of trying to pass a comprehensive Brownfields bill, the Senate passed S. 350 by unanimous consent on April 25th. The Brownfields Revitalization and Environmental Restoration Act 2001 was introduced in February by Senators Lincoln Chafee (R-RI), Barbara Boxer (D-CA), Environment and Public Works Chairman Robert Smith (R-NH), and Ranking Member Harry Reid (D-NV). According to EENews, S. 350 “carefully balances states’ and developers’ concerns about liability and regulatory intervention while preserving, though limiting, the Environmental Protection Agency’s ability to intervene in a state-supervised cleanup to protect human health and the environment, the so-called ‘federal safety net.’” The bill has widespread bipartisan support and is supported by the Administration. Now that it has passed the Senate, the bill will be referred to the House Committee on Energy and Commerce and the House Committee on Transportation and Infrastructure. Leaders in the House have already stated that they will produce legislation that differs from the Senate approach, ensuring that it will still be some time before this bill makes it into law.

Assistant Secretary for Water and Science Named at Interior

Although President Bush quickly assembled his cabinet, many of the cabinet members have yet to be joined by additional political appointees in their departments and agencies. At the 100-day mark for the Bush administration (April 20th), 29 of 488 top slots had been confirmed by the Senate with another 31 nominated but awaiting confirmation. The administration announced its intention to nominate an additional 177 candidates, but those individuals must still fill out White House paperwork and undergo FBI background checks before they are nominated. Once nominated, they must go through the Senate confirmation process of more paperwork, a hearing, a committee vote, and a floor vote. A person announced in April might be in place by August, but September is more likely. There are 17 Senate-confirmed positions in the Department of the Interior. The only ones filled are the Secretary and two holdovers from the previous administration—USGS Director Chip Groat and an official at the Bureau of Indian Affairs. The Deputy Secretary was nominated in March: Steven Griles, who served as Assistant Secretary for Land and Minerals Management in the first Bush administration. On April 16th, Norton announced the president’s intention to nominate Bennett Raley as Assistant Secretary for Water and Science, a position that oversees the USGS and Bureau of Reclamation. Raley previously was general counsel for the Northern Colorado Water Conservancy District. Before that, he served as Special Assistant Attorney General for the New Mexico Office of the State Engineer. He served on Capitol Hill as staff counsel to Sen. Hank Brown (R-CO). The press release on his appointment can be found at http://www.doi.gov/news/010416a.html.

AGI Submits Testimony on USGS, DOE Fossil Energy

As in previous years, AGI has provided written testimony to the House Interior Appropriations Subcommittee on behalf of geoscience programs within their jurisdiction, particularly the U.S. Geological Survey and the Department of Energy’s Fossil Energy Research and Development program. The testimony emphasizes the societal value of these programs and encourages Congress to provide the same level of funding in Fiscal Year (FY) 2002 as in FY 2001 rather than the substantial cuts called for in the president’s request. The testimony also supports geoscience programs in other Interior bureaus—including the National Park Service and Minerals Management Service—and at the Smithsonian Institution. The testimony is on the web at http://www.agiweb.org/gap/testimon.html.
The April 2001 issue of Geotimes is the sixth annual special geoscience and public policy issue. Features focus on geology in the national parks, the congressional science fellowship program, and two new reports from the National Research Council on the USGS and NSF Earth Sciences Division. The Comment is by Rep. Rush Holt (D-NJ), the first congressional science fellow elected to Congress. The Political Scene column by Margaret Baker looks at trends in geoscience funding. Much of the material can be found on the web at [http://www.geotimes.org/apr01/](http://www.geotimes.org/apr01/).

**New Material on Web Site**

The following updates and reports were added to the Government Affairs portion of AGI’s web site [http://www.agiweb.org](http://www.agiweb.org) since the last monthly update:

- Challenges to the Teaching of Evolution Update (5-2-01)
- Geotimes Political Scene: Climate Policy Needs a New Approach (5/01)
- Climate Change Policy Update (4-26-01)
- House Appropriations Hearing on Interior Department Budget (4-25-01)
- National Forests Roadless Initiative Update (4-18-01)
- AGI Testimony: USGS and DOE Fossil Energy (4-16-01)
- Special Update: President Bush’s FY 2002 Budget Part 1: Major Cuts to USGS, DOE Fossil Energy (4-10-01)
- Action Alert: Senators Needed to Support Increased NSF Funding (Posted: 4-6-01)
- Science at the Environmental Protection Agency (4-6-01)
- Asbestos Policy Update (4-4-01)
- Hazard Mitigation Policy Update (4-2-01)
- Geotimes Political Scene: Making the Investment (by Margaret Baker, AGI Government Affairs; 4/01)

**Sources:** American Institute of Physics, Baton Rouge Advocate, Department of the Interior, EENews, Greenwire, National Center for Science Education, U.S. Senate.

This monthly review goes out to members of the AGI Government Affairs Program (GAP) Advisory Committee, the leadership of AGI’s member societies, and other interested geoscientists as part of a continuing effort to improve communications between GAP and the geoscience community that it serves. Prior updates can be found on the AGI web site under “Government Affairs” [http://www.agiweb.org](http://www.agiweb.org). For additional information on specific policy issues, please visit the web site or contact us at <govt@agiweb.org> or (703) 379-2480, ext. 212.

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**Topical Index to the Professional Ethics and Practices Columns**

I have prepared a topical index covering columns 1 through 66 that has been placed on the AIPG web site in the ethics section. The index is in PDF format. The original file is in Microsoft Excel format. If you would prefer the Excel file, send me an e-mail and I’ll send it to you. I’ll update this index periodically and post the new copy on the AIPG web site. If you have suggestions on organization, please let me know.

David M. Abbott, Jr., CPG-04570, Ethics Committee Chairman, 2266 Forest Street, Denver, CO 80207-3831, 303-394-0321, fax 303-394-0543, DMAgeol@aol.com

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**UPDATE — AIPG Web Site**

The AIPG web site has a new look [www.aipg.org](http://www.aipg.org). Check it out! The site now includes a new feature called “Geology In The News” which is changed daily and links to current news items. Also added are links to rental car agencies, travel arrangements, insurance, and maps. The new drop down menu has links to members web sites, member resumes, section web sites, 2001 Annual Meeting information, and more. If you have any comments or suggestions for improving the web site please contact the National Headquarters office at [aipg@aipg.org](mailto:aipg@aipg.org) or (303) 412-6205.
Does Using Out-of-date Methodology Constitute Malpractice?
(column 62, Mar '01)

Robert M. Colpitts, Jr., CPG, wrote, “I have been reading the discussion on computer versus manual plotting in the competence discussion with some interest. Having degenerated into a computer ‘nerd’, ‘geodweeb,’ or what have you, I find it interesting.

“I believe that the heart of Mr. Maslansky’s issue is twofold: (1) the selection of the wrong aquifer model for the curve-fit interpretation and (2) being unfamiliar with state regulations governing what is required in one of these reports.

“In his edited comments, Mr. Maslansky questioned whether using out-of-date methodology was unethical. This sounds to me like either a difference of professional opinion or incomplete work on the consultants part. The comments from Messrs. Rahn and Hall [column 64, May '01] notwithstanding, the outcome probably would not have been any different if both Maslansky and the unnamed consultant had used a computer program (like AQTESOLV) to arrive at a number. While the number of aquifer models has increased and the ‘older’ methodologies have evolved somewhat as better numerical solutions to troublesome geological/hydrological settings have been presented and tested, the decision-making process remains much the same. This was alluded to by Dr. Rahn—a point worth noting. Not knowing any more about the situation, I suppose that the worst the hapless consultant could be accused of was being ‘professionally stale’ and not current on state regulations governing the type and content of the report required for the project.

“While working in New Mexico for a hydrogeologist, we ran into a similar situation. A hydrogeologic report was required by the State Engineer for a subdivision if it was to have its own water system. A civil engineer (PE) was retained by the developer. The engineer wrote a report, which was subsequently submitted to the State Engineer. It was returned as wholly inadequate and incomplete. Very embarrassing for the developer. The engineer wrote a report, which was subsequently returned as inadequate and not meeting all of the requirements.

“The foregoing discussion on compass use can also serve as metaphor for proper computer use as well. As the discussions on this topic have pointed out, the computer is a great tool, but it is not a substitute for thinking.

Conflicts of Interest—Data Confidentiality Can Last Forever

L. Graham Closs, CPG, sent me an article from the Toronto Globe and Mail describing a Ontario Court of Appeals case that held that some corporate secrets are to be kept secret forever. The case involved three members of a consulting firm who left to form a competing firm and used confidential information obtained from the previous employer to compete with that employer. The Court found that “stealth and deceit” was used to grab clients from the former employer. Among other things, the three men secretly solicited contracts from their company...”
former employer’s clients while still working for the former employer. In soliciting business for their new firm, the three men used their inside knowledge of previous contract discussions, plans, and design changes obtained while employed by the former employer. “Based on the respondents’ use of confidential information obtained during the course of their employment—as well as their solicitation of some of the appellant’s clientele before their departure—no length of post-departure grace period would have protected the appellant from the consequences of the misconduct of these employees,” the Court held.

Standard 3.2 of the AIPG Code of Ethics and the Rules thereunder address conflicts of interest. They state:

STANDARD 3.2 Members should protect, to the fullest possible extent, the interest of an employer or client so far as is consistent with the public health, safety, and welfare and the Member’s legal, professional, and ethical obligations.

Rule 3.2.1 A Member shall not use, directly or indirectly, any confidential information obtained from or in the course of performing services for an employer or client in any way which is adverse or detrimental to the interests of the employer or client, except with the prior consent of the employer or client or when disclosure is required by law.

Rule 3.2.2 A Member who has made an investigation for an employer or client shall not seek to profit economically from the information gained without written permission of the employer or client, unless it is clear that there can no longer be a conflict of interest with the original employer or client.

Rule 3.2.3 A Member shall not use his or her employer’s or client’s resources for private gain without the prior knowledge and consent of his or her employer or client.

The respondents’ actions as described appear to have violated Standard 3.2 and the Rules thereunder. I have received several inquiries from members concerning similar situations. The issue can be complicated when oil and gas or mining prospects are the subject of the confidential information rather than a consulting firm’s clients. This is the reason for the last clause of Rule 3.2.1 beginning with “except” and Rule 3.2.2. Such issues do not appear to be presented by the Ontario case.

Discussion of such problems ahead of time in this column is much preferable to after-the-fact proceedings. Please contribute your experiences, in generic form where appropriate, to this discussion.

AusIMM Safety Beliefs and Principles

(column 65, Jul '01)

Michael J. Lawrence, AusIMM President in 1999, submitted a vigorous response to the Australasian Institute of Mining & Metallurgy’s statement of safety beliefs and principles reprinted in last month’s column (AusIMM Bulletin, April/May 2001). While Lawrence believes that occupational health and safety issues are very important and something professional societies such as AusIMM [and AIPG] ought to support and encourage, he strongly objects to the safety professionals’ mantra that “All accidents and incidents are preventable.” This mantra is by no means unique to Australia, it is the mantra of U.S. safety professionals as well.

Unfortunately, not all geologic work can be carried out in a managed, risk-free environment. Field work need not be on active volcanoes to be hazardous. Simply being in the field presents various hazards from sun, wind, lightning, topography, etc. Because the work must be done, accidents and incidents will occur. Lawrence believes, and I agree, that the risks must be recognized, avoided if possible, and appropriate precautions taken.

When I was in graduate school, I drove a school bus. The school district I worked for made clear from the beginning that safety was the primary concern. About the only way one could be involved in a non-preventable accident was to have something fall out of the sky from behind you. However, the fact that accidents did happen was recognized as was their severity. Being involved in a preventable accident didn’t automatically lead to termination. But you did have some explaining to do and you didn’t make a habit of it. This approach is one I believe that we as professional geologists can adopt.

As always, your views and comments are welcomed.

Computing Practice: Personal Firewalls

As more of us spend more time on the internet and therefore acquire DSL, cable modem, and other forms of always on access, the chances of suffering unauthorized access into your system increase dramatically. Having an antivirus program, which you update regularly (once a week at least), is only part of the answer. You also should consider obtaining a personal firewall.

Firewalls come in two major flavors, software and hardware. Software versions are available from several vendors. Hardware versions come in the form of routers that sit between a local area network (LAN) and the DSL or cable modem. As more of us discover the usefulness of having a LAN at home (phone-line networking and wireless networking are making this even easier at home), routers make sense because they allow all computers on the LAN to share the high-speed connection to the internet. A software version is added protection. Those of you working for larger entities with IS departments may have laptops that you take while traveling. These laptops should have personal firewall software—you’re not behind the corporate firewall in a motel room. You may even want one running while you’re in the office as a further line of protection.

You can test the security of your system by going to the Gibson Research Corporation web site, www.grc.com, and running the Shields Up tests. Gibson does not make antivirus or firewall software. It provides programs that test firewalls. Gibson’s site is one you should check fairly regularly to determine whether things have changed. The ability of hackers to break into computers increases all the time and your protection should change as well.

I’ve written several of these computer practice notes now. I include them because most of us are using computers in more and more ways and most of us do not consider ourselves real experts at computing. Because I’ve found computer-related notes in some of the geosociety publications I’ve received over the years useful, I’m assuming that others find such notes helpful as well. I’d appreciate quick notes from you, the readers, letting me know whether you like these notes or would prefer that they be discontinued. Thank you in advance for your comments.

1. An Ontario case merits citation because Canadian law, like US law, is grounded in English common law, which is particularly applicable in issues involving fairness. In such cases US and Canadian courts can and sometimes do cite each other. I’m not a lawyer and I’m not providing legal advice; my observations are based on both reported cases and law review articles.
Compensation of Geoscientists - 2001

Sponsored by the American Geological Institute and numerous geoscience societies, this tightly-packed 370-page report provides the most intensive and extensive information on base salary, fees/bonuses/commission, and total cash compensation of professional geoscientists on the basis of each of the following variables:

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Manuscripts should have the following sections: title, author(s) with CPG number and address, key words, text, tables if included, figures with captions if included, appendix(es) if included, acknowledgments, references cited, and a brief biography.

One original and three copies of each manuscript should be submitted. Whenever possible, text also should be submitted on diskette. Headquarters uses WordPerfect 9 for Windows 98, which is preferred, but Word, ASCII, RTF, or translatable files are acceptable. Articles also can be transmitted by e-mail.

Graphics should be clear, camera-ready, line drawings whenever possible. Photographs (color or black and white) also are encouraged. TPG wants color slides and photographs. Slides and photographs alone may be submitted for the cover. They should have a geologic theme and an informational caption.

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