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FRONT COVER - Mount Denali, also known in the lower forty-eight states as Mount McKinley. “The Great One” is the translation of the native word Denali. Photograph by Evelyn’s Focus Photography - Evelyn Erickson.

INSIDE and BACK COVER - Photographs/Slides were provided courtesy of the Anchorage Convention and Visitor’s Bureau, Glee Anderson, Representative (ACVB), and Evelyn’s Focus Photography, Evelyn S. Erickson, Photographer (EFP, ESE).

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A Census of Certifying Organizations - How Does AIPG Fit In?

The National Certification Commission (NCC) is one of the national organizations in the US that monitor, advise, and evaluate certifying organizations like AIPG, including their adherence to current norms for certification. (The National Commission for Certifying Agencies is another). Simply stated, these organizations “certify” certifying organizations. AIPG has not been certified by either.

NCC is the source of numerous brief reports and surveys concerning certifying organizations, which often involve statistical comparisons. The Executive Summary of the 1999 National Certification Census, conducted by NCC on an annual basis, contains statistical information and comparisons on 188 Certification programs, including that of AIPG. The similarities and differences between AIPG and our Certification organization peers will be of interest to many CPGs. Further, the ideas being considered by the Task Force for Continuing Professional Development are now the norm for Certification and not something that AIPG has just discovered.

- The 188 Certification programs reporting in the census have approved 2,248,600 participants for Certification.
- More than 70% of the Certification programs were established after 1970, and over half since 1980. AIPG (1964) has a long-established but dated program.
- About 60% of the programs offer more than one category of Certification, an increase of 40% from the 1997 Census. This large one-year increase appears to result mainly from increased use of, and reliance on, Certification Renewal requirements. Eighty-two percent of the organizations responding in 1998 now offer Certification Renewal!
- Forty-four percent of the programs offer Regular (i.e., CPG-type Certification) and Certification Renewal (not currently used by AIPG), and 38% offer Granted (temporary pre-Regular), Regular, and Certification Renewal. The implication is that only 18% including AIPG, offer Regular Certification alone.
- During 1998, 312,191 candidates applied for Certification by the 188 Certifying organizations. The approval rate was “relatively high” at 77% for Regular Certification. Of those not approved, only 0.3% appealed; no cases of litigation were reported. AIPG’s approval rate is higher, at over 95%. We do not believe that this is because AIPG is “too loose,” but rather results from the Institute’s very stringent requirements for Certification.
- Approximately 80% of the Certification programs require an evaluation test of some kind: 80% written exam, 15% practical test, and 3% oral review. The most widely used written exam (about 75%) includes multiple-choice questions, an increase of 61% from 1997. As with Certification Renewal, there appears to be a major current movement among Certification programs for use of a multiple-choice written exam as a primary evaluation tool for Certification. Preparation for candidate evaluation, mainly by written exams, commonly includes study guides, sample questions, and suggested reading lists. As has been reported for the ASBOG exam, effective pre-exam preparation apparently leads to improved examination pass-rates. The exams, as such, are designed to ensure that Certification candidates are knowledgeable in the required areas covered in the exams and are not just a bureaucratic barrier designed to reject a pre-determined percentage of applicants.
- The major benefits of Certification emphasized in the Census are practitioner recognition, advancement of knowledge, and promoting of skills to the public.

The 188 Certifying organizations responding to NCC’s 1999 Census represent a wide variety of professional and occupational specialties. With over half of the reporting Certification programs having been formed since 1980 and with the grant of 312,191 Certificates in 1998 alone (13.8% of the total participants represented in the Census), IT IS OBVIOUS THAT CERTIFICATION IS INCREASINGLY VALUED AND SOUGHT IN THE UNITED STATES REGARDLESS OF STATE REGISTRATION “COMPETITION.” Further, a large majority now require an evaluation test, usually a written, multiple choice exam, and periodic Certification Renewal based upon varying requirements that usually include “continuing education activities.”

NCC has granted AIPG permission to publish information and data drawn from the Commission’s 1999 National Certification Census Executive Summary. I wish to thank NCC for their consideration and support in this matter.

In light of the Census, the current consideration and discussion by AIPG’s Task Force for Continuing Professional Development of possible entry examinations for new CPGs and some form of Certification Maintenance, based upon continuing education, publications and talks, outreach work and/or participation in professional and technical affairs, does not break new ground but rather attempts to deal with the manner in which the Institute must gradually catch up with our professional peers. It is also an attempt to deal with the high rate of change, technically and economically, of our science and means of livelihood. With the recent increase in state registration, the use of Certification to help distinguish oneself from competitors is increasingly important. The desirability of continuing Certification of registered geologists is the subject of a continuing series in TPG this year. My January President’s Message dealt with this, as did Bill Knight’s “After the Rapture” article in the March issue. Vice President Robert Font’s views are discussed in this issue, and more articles on the subject are planned.

Next month’s President’s Message will report in detail on the results of the recent Task Force for Continuing Professional Development Questionnaire. The statistical results and numerous comments support the general direction of Task Force deliberations, some strongly and some less so, but indicate that changes affecting existing CPGs must be implemented in flexible, non-threatening ways.
COME TO ALASKA!

AIPG 36th ANNUAL MEETING
FRONTIERS IN GLOBAL GEOLOGY
Looking Forward to the Next Millennium

ANCHORAGE, ALASKA
October 2 - 9, 1999
The American Institute of Professional Geologists
Alaska Section, P.O. Box 242232
Anchorage, Alaska 99524

FRONTIERS IN GLOBAL GEOLOGY
Looking Forward To The Next Millenium

WELCOME TO ALASKA!

The Alaska Section of the AIPG is proud to host the 36th Annual AIPG National Meeting. We cordially invite you to join us in making this meeting a great success.

The meeting will be held at the luxurious Westin Alyeska Prince Resort. Just forty five minutes from Anchorage, this world class resort is situated in the majestic geological setting of the Chugach Mountains, in the Girdwood Valley. Everywhere you turn geological features abound, from glaciers and fjords to mountains and streams.

We have organized a dynamic program that includes three outstanding short courses, interesting and educational field trips to several areas in South Central Alaska, and an assortment of technical sessions focusing on the theme “Frontiers in Geology - Looking Forward to the New Millenium.” The field trips, all scheduled in the afternoons, have been designed to complement the morning technical sessions, as well as to allow you a hands on exploration of Alaska’s geological features. We’ve changed the meeting format for the Alaska meeting, to allow us to incorporate the excellent variety of field trips that will not only teach you about Alaskan geology, but provide you the opportunity to see different parts of the area as well. Evening activities will showcase Alaskan geography and hospitality, as well as local talent and fine cuisine. The Opening Reception at Alyeska’s mountaintop facility will include dinner with sweeping views of the Chugach Mountains and the Turnagain Arm of Cook Inlet. You can view seven glaciers from the top! The view from atop Mount Alyeska was voted one of the top ten best views from a ski resort in North America, in Conde Naste travelers magazine.

The Annual Awards Banquet featuring Alaskan cuisine will be held at the historic Fourth Avenue Theater in downtown Anchorage. This building was one of the few to survive the 1964 Good Friday earthquake (largest ever in North America) with no damage. Martin Buser, a three time champion of the Iditarod Sled Dog Race (1049 miles from Anchorage to Nome) will be the featured speaker at the dinner. We invite you to come and learn about this intriguing sport native to Alaska, and meet some champion canines!

We’ve even put together an exciting program for your spouse, guests or family. They will be busy exploring on tours while you explore on the field trips! This meeting has been designed to be the Grand Finale for the 20th century and take the AIPG into the next millennium in style. Don’t miss the meeting of the century!

36th Annual Meeting, Alyeska Prince Hotel, Girdwood, Alaska, October 4 - 8, 1999
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Saturday, October 2</strong></td>
<td></td>
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</tr>
<tr>
<td>To be announced</td>
<td>9:00 a.m.</td>
<td>Hospitality Suite in Anchorage (Limited hours to be announced)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRE-CONFERENCE FIELD TRIP #1: To Denali (Mt. McKinley area) departs from the Best Western Barrett Inn. Returns to Alyeska Prince Hotel on Monday, October 4 at approximately 5:00 p.m.</td>
</tr>
<tr>
<td><strong>Sunday, October 3</strong></td>
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<tr>
<td>To be announced</td>
<td>8:00 a.m. - 6:00 p.m.</td>
<td>Hospitality Suite in Anchorage (Limited hours to be announced)</td>
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<tr>
<td></td>
<td>3:00 p.m. - 6:00 p.m.</td>
<td>Executive Committee Meeting (Portage Board Room &amp; Salon)</td>
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<td></td>
<td>Early registration for HAZWOPER Refresher course participants (Hubbard Room)</td>
</tr>
<tr>
<td><strong>Monday, October 4</strong></td>
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<tr>
<td>To be announced</td>
<td>7:00 a.m. - 6:00 p.m.</td>
<td>Registration (Meeting Room Foyer)</td>
</tr>
<tr>
<td></td>
<td>8:00 a.m. - 9:00 a.m.</td>
<td>Continental Breakfast for Current &amp; Incoming Advisory Board (Ballroom B)</td>
</tr>
<tr>
<td></td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>AIPG Foundation Meeting (Summit Room)</td>
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<td></td>
<td>8:00 a.m. - 6:00 p.m.</td>
<td>PRE-CONFERENCE FIELD TRIP #2: Glenn Highway (Optional) (Lobby)</td>
</tr>
<tr>
<td></td>
<td>8:30 a.m. - 5:30 p.m.</td>
<td>HAZWOPER Refresher Course (Ballroom A)</td>
</tr>
<tr>
<td></td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>Current &amp; Incoming Advisory Board Meeting (Ballroom B)</td>
</tr>
<tr>
<td></td>
<td>5:30 p.m. - 7:00 p.m.</td>
<td>Exhibitor Reception (Harding &amp; Bering Rooms)</td>
</tr>
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<td></td>
<td>7:00 p.m. - 10:00 p.m.</td>
<td>Opening Reception Dinner (SPOUSE ACTIVITY #1) Glacier Express - mountaintop - No host bar - Bring your camera - 60 Second Review</td>
</tr>
<tr>
<td><strong>Tuesday, October 5</strong></td>
<td></td>
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<tr>
<td>To be announced</td>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Speakers Breakfast (Summit Room)</td>
</tr>
<tr>
<td></td>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Past Presidents Breakfast</td>
</tr>
<tr>
<td></td>
<td>7:00 a.m. - 1:00 p.m.</td>
<td>Registration (Meeting Room Foyer)</td>
</tr>
<tr>
<td></td>
<td>7:00 a.m. - 9:00 a.m.</td>
<td>Incoming Advisory Board Meeting &amp; Election (Ballroom A)</td>
</tr>
<tr>
<td></td>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Trade Show (Harding &amp; Bering Rooms)</td>
</tr>
<tr>
<td></td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>KEYNOTE SESSION (the Prince Court)</td>
</tr>
<tr>
<td></td>
<td>9:15 a.m. - 10:15 a.m.</td>
<td>SPOUSE ACTIVITY #2: Water Aerobics</td>
</tr>
<tr>
<td></td>
<td>10:00 a.m. - 10:30 a.m.</td>
<td>Coffee Break (Exhibit Area Foyer)</td>
</tr>
<tr>
<td></td>
<td>10:30 a.m. - 12:00 a.m.</td>
<td>CONCURRENT TECHNICAL SESSIONS:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• #1 - Engineering Geology (Ballroom B)</td>
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<tr>
<td></td>
<td></td>
<td>• #2 - Professional Ethics &amp; Practices (Summit Room)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• #3 - Information Based Applications for Geology (Ballroom C)</td>
</tr>
<tr>
<td></td>
<td>12:15 a.m. - 6:45 p.m.</td>
<td>FIELD TRIPS:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• #1 - Anchorage Landslides (Lobby)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• #2 - Tumagain Arm (Lobby)</td>
</tr>
<tr>
<td></td>
<td>1:30 p.m. - 3:00 p.m.</td>
<td>SPOUSE ACTIVITY #3: Guided Hike on Winner Creek Trail</td>
</tr>
</tbody>
</table>
# 36th AIPG Annual National Meeting

## PROGRAM (CONTINUED)

### Wednesday, October 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m. - 1:00 p.m.</td>
<td>Registration (Meeting Room Foyer)</td>
</tr>
<tr>
<td>7:00 a.m. - 9:00 a.m.</td>
<td>Combined Current &amp; Incoming Executive Committee Meeting (Ballroom A)</td>
</tr>
<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Trade Show (Harding &amp; Bering Rooms)</td>
</tr>
<tr>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>CONCURRENT TECHNICAL SESSIONS:</td>
</tr>
<tr>
<td></td>
<td>• #4 - Oil &amp; Gas Exploration, Development &amp; Production (Ballroom B)</td>
</tr>
<tr>
<td></td>
<td>• #5 - Environmental Geology (Ballroom C)</td>
</tr>
<tr>
<td></td>
<td>• #6 - Education of Natural Resources/Geological Sciences (Summit)</td>
</tr>
<tr>
<td>10:30 a.m. - 11:00 a.m.</td>
<td>Coffee Break (Exhibit Area Foyer)</td>
</tr>
<tr>
<td>12:15 a.m. - 10:00 p.m.</td>
<td>SPOUSE ACTIVITY #4: Anchorage City Tour, Museum, Shopping, &amp; Awards Banquet</td>
</tr>
<tr>
<td>11:15 a.m. - 5:15 p.m.</td>
<td>GEOHAZARDS SHORT COURSE (Ballroom B)</td>
</tr>
<tr>
<td>11:15 a.m. - 6:00 p.m.</td>
<td>FIELD TRIPS: (choice of one below included with registration)</td>
</tr>
<tr>
<td></td>
<td>• #3 - Oil &amp; Gas (Lobby)</td>
</tr>
<tr>
<td></td>
<td>• #4 - Environmental Geology (Lobby)</td>
</tr>
<tr>
<td></td>
<td>• #5 - Anchorage Geology (Lobby)</td>
</tr>
<tr>
<td>6:00 p.m. - 7:00 p.m.</td>
<td>Cocktail Reception (no host) at 4th Avenue Theater in Anchorage</td>
</tr>
<tr>
<td>7:00 p.m. - 10:00 p.m.</td>
<td>Annual Awards Banquet - 4th Avenue Theater (featuring presentation by three time Iditarod Champion Martin Buser)</td>
</tr>
<tr>
<td>10:00 p.m. - 10:45 p.m.</td>
<td>Motorcoach transfer to the Alyeska Prince Resort Hotel</td>
</tr>
</tbody>
</table>

### Thursday, October 7

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m. - 10:00 a.m.</td>
<td>Continental Breakfast Business Meeting (Prince Court)</td>
</tr>
<tr>
<td>8:00 a.m. - 10:30 a.m.</td>
<td>Registration (Hubbard Room)</td>
</tr>
<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Trade Show (Harding &amp; Bering Rooms)</td>
</tr>
<tr>
<td>10:00 a.m. - 10:30 a.m.</td>
<td>Coffee Break (Exhibit Area Foyer)</td>
</tr>
<tr>
<td>10:30 a.m. - 11:30 a.m.</td>
<td>CONCURRENT TECHNICAL SESSIONS:</td>
</tr>
<tr>
<td></td>
<td>• Cold Regions Engineering (Ballroom A)</td>
</tr>
<tr>
<td></td>
<td>• Mining Exploration, Development &amp; Production (Ballroom B)</td>
</tr>
<tr>
<td></td>
<td>• Geopolitics In Mining (Ballroom C)</td>
</tr>
<tr>
<td>11:45 a.m. - 6:00 p.m.</td>
<td>MINING SHORT COURSE (Ballroom B)</td>
</tr>
<tr>
<td>12:45 p.m. - 7:15 p.m.</td>
<td>FIELD TRIP #6: Eagle River (Lobby)</td>
</tr>
<tr>
<td>1:00 p.m. - 5:00 p.m.</td>
<td>FIELD TRIP #7: Portage Valley/Portage Glacier (Lobby)</td>
</tr>
<tr>
<td>1:00 p.m. - 5:00 p.m.</td>
<td>SPOUSE ACTIVITY #5: Portage Valley &amp; Big Game Alaska</td>
</tr>
</tbody>
</table>

### Friday, October 8

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m. - 7:30 p.m.</td>
<td>OPTIONAL POST CONFERENCE TOUR: Kenai Fjords Cruise Tour</td>
</tr>
</tbody>
</table>

### Saturday, October 9

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m. - 1:00 p.m.</td>
<td>OPTIONAL POST CONFERENCE TOUR: Mount McKinley flightseeing tour in vintage DC3 - incredible views of North America’s tallest peak. Limited seating available.</td>
</tr>
</tbody>
</table>
KEYNOTE SESSION

Tuesday, October 5, 1999
9:00 a.m. - 10:00 a.m.
FRONTIERS IN GLOBAL GEOLOGY
Looking Forward to the Next Millennium

Welcome and Introduction
Richard “Dick” Ragle, General Chairman
Marilyn Plitnik, President, Alaska Section AIPG

Keynote Speakers
Jay Hammond, Former Governor, State of Alaska
A bush pilot’s view of technology and logistics from Alaska’s past to future….

Dr. Syun Akasofu, Director, Geophysical Institute of the University of Alaska, Fairbanks
Alaska’s Future in Earth and Planetary Sciences
PRE-CONFERENCE FIELD TRIPS

PRE-CONFERENCE TRIP #1
DENALI-MT. MCKINLEY AREA
3 Day / 3 Night Trip (Oct. 2-4, 1999)
Departure: Best Western Barrett Inn
Cost: $479.00

This trip begins with an overnight in Anchorage at the Best Western Barrett Inn. The next morning, depart from the hotel and journey north through the Matanuska-Susitna Valley to the Denali Park area. This first leg of the trip will be aboard the Alaska Railroad. Your driver will be waiting for your arrival by train, and will take you to dinner. Overnight at a motel in Healy, Alaska, just a few miles north of the Denali National Park entrance. Day three, transfer to café for breakfast (on own) followed by the day’s first stop at the Healy Coal Mine. From there, continue on to the Denali Park entrance. Road & weather conditions permitting, travel in on the park road, or visit the Denali Natl. Park headquarters. From Denali, travel south to Talkeetna, the town which serves as the jumping off point for climbing expeditions of North America’s tallest peak, Mt. McKinley (20,320 feet). The geology of the Denali Park area will be discussed including tectonics and stratigraphy. During the trip, you will see major glacial-fed streams, deep ravines, and majestic mountains. Additional geology will be discussed in relation to the mining potential (including gold and coal) of the area. Dry Creek, one of the oldest paleoindian sites in North America will be seen. The third overnight will be at the new Talkeetna Lodge. An optional flight-seeing tour to Mount McKinley, by fixed wing aircraft, will be available at an additional fee. While in Talkeetna, there will also be a jetboat safari tour up the Talkeetna River, with a hike in to an old trappers’ cabin. The weather in the part of Alaska visited during this trip is generally cold, and snow is possible.

PRE-CONFERENCE TRIP #2
GLENN HIGHWAY
1 Day Trip - Monday, October 4, 1999
Departure: Westin Alyeska Prince Hotel
Cost: $55.00

The Glenn Highway affords an opportunity to understand the tectonics of the area and the development of the Chugach Mountains. The “terran” theory of plate tectonics had a “heyday” development in Southcentral Alaska. Dr. David Stone, of the University of Alaska, used the rocks along the Glenn Highway, as well as Tumagain Arm, to decipher the terranes of Alaska through paleomagnetism. The Glenn Highway follows the fault boundary between the Chugach Terrane and the Peninsular Terrane. Rocks observed include the melange of the McHugh Fm, conglomerates of the Peninsular Terrane and granodiorites of stocks stitching the terranes together. In addition to tectonics, this field trip offers discussion of the glacial history of the “Anchorage Bowl.” We will travel up to Palmer and view the Matanuska Glacier overlook and finish the trip by searching for Tertiary plant fossils. We highly recommend this 8-9 hour field trip, especially if you are unable to attend the Tumagain or Eagle River Field Trips.

FIELD TRIP #1
ANCHORAGE LANDSLIDES
1 Day Trip - Tuesday, October 5, 1999
Departure: Westin Alyeska Prince Hotel
Cost: $45.50

On “Good Friday” March 27, 1964, a major earthquake registering 8.4 on the Richter magnitude scale (upgraded to 9.2 on the moment magnitude scale) shook Southcentral Alaska for almost four minutes. This field trip is designed for engineering geologists and anybody interested in the landslides that affected Anchorage during this event. Six major landslides destroyed parts of Anchorage. During this trip, we will visit an outcrop of the Bootleggers Cove Fm, which was responsible for the sliding, and discuss its geology.

FIELD TRIP #2
TURNAGAIN ARM
1 Day Trip - Tuesday, October 5, 1999
Departure: Westin Alyeska Prince Hotel
Cost: $45.50

Tumagain Arm is a fjord left by the recession of a glacier that stood near Anchorage approximately 13,000 years ago. The remnants of this mighty glacier are observed as alpine glaciers along the Arm and as Portage Glacier at the head of the Arm. This field trip is designed to present the two major processes that have affected Southcentral Alaska: tectonics and glaciers. The rocks along Tumagain Arm comprise the Chugach Terrane and are a melange of the McHugh Complex plutosturbidites and metasedimentary rocks of the Valdez Group. In addition to the rocks, this field trip will focus on glacial features and the tidal flats. We will also visit the Beluga Point Archeological site.
Anchorage, Alaska  October 2-9, 1999

GEOLeGIC FIELD TRIPS

FIELD TRIP # 3
OIL & GAS
1 Day Trip - Wednesday, October 6, 1999
Departure: Westin Alyeska Prince Hotel
Cost: $42.00

Alaska is home to one of North America’s largest oil fields, Prudhoe Bay, plus associated fields, Kuparuk, Lisburne, and Endicott. In addition, Cook Inlet has produced petroleum since 1957. The Alaska economy is driven by oil prices, and a major portion of our workforce is employed by the petroleum industry. This field trip will include a discussion of the geology of the major oil and gas fields and a trip to ARCO’s core laboratory.

FIELD TRIP # 4
ENVIRONMENTAL GEOLOGY
1 Day Trip - Wednesday, October 6, 1999
Departure: Westin Alyeska Prince Hotel
Cost: $42.00

Every city has environmental problems. These are compounded in Anchorage by our extreme weather conditions, the rugged individualism of voters, and our proximity to unspoiled reaches of wilderness lands. This field trip will present a discussion of some of the more pressing environmental issues, including wetlands, water supply, landfills, pollution of our waterways, rampant development, wildlife, sub-arctic remediation techniques, and urban planning. These problems will be discussed at the site of the problems and solutions will be presented.

FIELD TRIP # 5
ANCHORAGE GEOLOGY
1 Day Trip - Wednesday, October 6, 1999
Departure: Westin Alyeska Prince Hotel
Cost: $42.00

This field trip will provide a comprehensive view of an area dominated by glacial processes. These features include the Kincaid pitted outwash, Pr. Woronzof fluvial deposits, drumlins, the Elmendorf moraine, and the Naptowne outwash. In addition to observing and discussing Quaternary glacial features, we will incorporate parts of the Anchorage landslides and environmental field trips.

FIELD TRIP # 6
EAGLE RIVER GLACIAL FEATURES
Thursday, October 7, 1999
12:45 PM - 7:15 PM
Departure: Westin Alyeska Prince Hotel
Cost: $45.50

Eagle River Valley, approximately ten miles north of Anchorage, is key to an understanding of glacial cycles that affected Southcentral Alaska up to 11,000 years ago. Features that will be observed and discussed include kame and kettle deposits, the Elmendorf Moraine, alpine glacial features, lacustrine deposits, and soil profiles developed as the glaciers receded. A trip to the Southcentral Museum of Natural History will be incorporated into this field trip.

FIELD TRIP # 7
PORTAGE GLACIER
Thursday, October 7, 1999
12:45 PM - 5:00 PM
Departure: Westin Alyeska Prince Hotel
Cost: $35.00

Portage Glacier is the most visited tourist attraction in Alaska. This glacial valley offers a unique opportunity to visit modern alpine glaciers, and is highly recommended. Unfortunately, in the past several years, Portage Glacier has receded to the point it is difficult to observe up close; however, Byron Glacier presents an opportunity to touch and feel a modern glacier which is a remnant of the major glacier that carved Turnagain Arm. The controversial road to Whittier and the Whittier Tunnel will be discussed, and traveled if open by the time of this field trip. The trip will also include a visit to the Begich-Boggs Visitors Center which presents several displays on the history and geology. You will also view the award winning film, “Voices from the Ice.”

REGISTER BY JULY 15, 1999 AND SAVE $100!
SPouse Activities

SPOUSE ACTIVITY #1
OPENING RECEPTION & DINNER
Monday, October 4, 1999 - 5:30 PM-10:00 PM
Departure: Westin Alyeska Prince Hotel
Cost: $39.00

Evening begins with the Exhibitors Reception (2 drinks included) in the hotel followed by a tram ride to the mountain top restaurant, the Glacier Express. Mount Alyeska stands 3,939 feet from sea level, with the mountaintop facilities at the 3200 foot level. See for yourself why one of the mountaintop restaurants was named 7 Glaciers. The view from atop Mt. Alyeska was voted one of the top 10 views from a ski resort in North America by Conde Naste travel magazine. You'll enjoy a great dinner and Alaskan entertainment while renewing old acquaintances or making new ones.

SPOUSE ACTIVITY #2
WATER AEROBICS
Tuesday, October 5, 1999 - 9:15 AM - 10:15 AM
Departure: Westin Alyeska Prince Hotel
Cost: $15.00

Start out your day with an invigorating workout in the hotel pool. Water aerobics offer the extra added benefit of the water resistance for an even better workout. This one hour class requires no previous experience with water aerobics, and is designed to be fun as well as to give participants an aerobic workout. Finish up the morning with a relaxing dip in the sixteen person hot tub with huge picture windows looking up the face of the mountain.

SPOUSE ACTIVITY #3
GUIDED HIKE ON WINNER CREEK TRAIL
Tuesday, October 5, 1999 - 1:30 PM - 3:00 PM
Departure: Westin Alyeska Prince Hotel
Cost: $20.00

Take a guided hike with a local naturalist along the Winner Creek Trail right from the hotel. This trail is an easy walk (3 on a scale of 1-10). A local naturalist will guide the hike. Learn about the natural surroundings, flora and fauna of the area, while taking in the beauty of surrounding mountains and the Girdwood Valley.

SPOUSE ACTIVITY #4
ANCHORAGE CITY TOUR, MUSEUM, SHOPPING & AWARDS BANQUET
Wednesday, October 6, 1999
12:15 PM - 10:00 PM
Departure: Westin Alyeska Prince Hotel
Cost: $93.00

Depart (after lunch) for Anchorage, stopping at the Potters Marsh bird sanctuary along the way. Keep an eye out for sheep on the mountainsides, eagles, and moose. See Lake Hood, the world’s largest float plane base, and Earthquake Park, where in 1964 the earthquake destroyed an entire neighborhood. See the highlights of downtown Anchorage, and go to the Museum of History & Art. Take a guided tour of the Alaska Gallery, which depicts the history of the many native cultures of Alaska. From the museum, you’ll be given a map of what locals consider the best Alaskan shops so you can spend your valuable shopping time in the shops with the best selection of uniquely Alaskan items, and the best buys. After shopping, you’ll walk the short distance to the Fourth Avenue Theater (also on your map) where a no host cocktail reception begins at 6:00 p.m. Dinner will begin at 7:00 p.m., followed by a presentation by Martin Buser, a three time Iditarod Dog Sled Race (1049 miles from Anchorage to Nome) champion. You’ll even get to meet a champion athlete from his team (dogs!). This evening will be a highlight, you won’t want to miss this event!

SPOUSE ACTIVITY #5
PORTAGE VALLEY & BIG GAME ALASKA
Thursday, October 7, 1999 - 1:00 PM - 5:00PM
Departure: Westin Alyeska Prince Hotel
Cost: $45.00

Head north on the Seward Highway to the turnoff to Portage Valley. As soon as you turn, you’ll see the valley is beautiful with abundant waterfalls, towering peaks, and hanging alpine glaciers. Explore the Begich-Boggs Visitors Center where you’ll learn about the glacier, view educational exhibits, and you may even see an ice worm! (Yes, they really do exist!) While there, you will also have the chance to see the award winning film, “Voices from the Ice.” From Portage, the next stop is Big Game Alaska Wild Animal Park. Although not on the scale of the San Diego Wild Animal Park, it does offer the opportunity to view animals indigenous to Alaska which you might not otherwise see. These include moose, caribou, musk ox, Sitka Black Tailed deer, eagle, elk, and more.
## TECHNICAL SESSION # 1
### ENGINEERING GEOLOGY
**Tuesday, October 5, 1999**
**9:30AM - 11:00AM**

<table>
<thead>
<tr>
<th>Topic:</th>
<th>Ground Freezing Applications for Geologic &amp; Hydrologic Problems</th>
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<tbody>
<tr>
<td>Speaker(s):</td>
<td>Dan Mageau, GeoEngineers, Inc.</td>
</tr>
<tr>
<td>Topic:</td>
<td>Tectonics for the 21st Century</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Dr. Peter Haeussler, US Geological Survey</td>
</tr>
<tr>
<td>Topic:</td>
<td>The Whittier Tunnel Project (through the Chugach Mountain Range)</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Kelly Merrill, CH2M Hill, Bucky Tart, Golder &amp; Associate</td>
</tr>
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</table>

## TECHNICAL SESSION # 2
### PROFESSIONAL ETHICS & PRACTICES
**Tuesday, October 5, 1999**
**9:30AM - 11:00AM**

<table>
<thead>
<tr>
<th>Topic:</th>
<th>Live version of the Professional Ethics &amp; Practices Column (Round Table Discussion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker(s):</td>
<td>David Abbott, Jr., AIPG Ethics Chair</td>
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</tbody>
</table>

## TECHNICAL SESSION # 3
### INFORMATION BASED APPLICATIONS FOR GEOLOGY
**Tuesday, October 5, 1999**
**9:30AM - 11:00AM**

<table>
<thead>
<tr>
<th>Topic:</th>
<th>Using Geographic Information Systems (GIS) for Geological Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker(s):</td>
<td>Charles Barnwell, Municipality of Anchorage</td>
</tr>
<tr>
<td>Topic:</td>
<td>Ground Water Exploration in an Urban Setting Using Geographic Information Systems</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Dan Young, TERRASAT, Inc.</td>
</tr>
<tr>
<td>Topic:</td>
<td>Geographic Information Systems software tools: Perspective from an Alaskan Geologist</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Gary Sherman, ESRI Alaska, Inc.</td>
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## TECHNICAL SESSION # 4
### OIL & GAS EXPLORATION, DEVELOPMENT & PRODUCTION
**Wednesday, October 6, 1999**
**9:00AM - 10:30AM**

<table>
<thead>
<tr>
<th>Topic:</th>
<th>North Slope, 1999 and Beyond</th>
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<tbody>
<tr>
<td>Speaker(s):</td>
<td>To be announced</td>
</tr>
<tr>
<td>Topic:</td>
<td>Trans Alaska Pipeline System (TAPS)</td>
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<tr>
<td>Speaker(s):</td>
<td>Jennifer Ryse, Alyeska Pipeline Co.</td>
</tr>
<tr>
<td>Topic:</td>
<td>Trans Alaska Gas System (TAGS)</td>
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<tr>
<td>Speaker(s):</td>
<td>Jeff Lowenfels, Yukon Pacific</td>
</tr>
<tr>
<td>Topic:</td>
<td>The Russian Far East</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>John Doyle, Northern Forum</td>
</tr>
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</table>

## TECHNICAL SESSION # 5
### ENVIRONMENTAL GEOLOGY
**Wednesday, October 6, 1999**
**9:00AM - 10:30AM**

<table>
<thead>
<tr>
<th>Topic:</th>
<th>Recent Trends in the Environmental Consulting Business</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker(s):</td>
<td>Russ Slayback, Leggette, Brashears &amp; Graham</td>
</tr>
<tr>
<td>Topic:</td>
<td>Risk Based Assessments</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Katerina Rutkowski, State of Alaska Dept. of Environmental Conservation</td>
</tr>
<tr>
<td>Topic:</td>
<td>Environmental Policy for the 21st Century</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Rick Albright, Dir., Alaska Operations for Region 10, US Environmental Protection Agency</td>
</tr>
</tbody>
</table>

## TECHNICAL SESSION # 6
### EDUCATION OF NATURAL RESOURCES/ GEOLOGICAL SCIENCES
**Wednesday, October 6, 1999**
**9:00AM - 10:30AM**

<table>
<thead>
<tr>
<th>Topic:</th>
<th>The Role of Geology in Environmental Science Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker:</td>
<td>Dr. Jim Brown, Professor, Alaska Pacific University</td>
</tr>
<tr>
<td>Topic:</td>
<td>Presentation to be announced</td>
</tr>
<tr>
<td>Speakers(s):</td>
<td>Anne Pasch, Professor Emeritus, University of Alaska, Anchorage</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Topics to be added at a later date.</td>
</tr>
</tbody>
</table>
TECHNICAL SESSIONS & SHORT COURSES

TECHNICAL SESSION #7
MINING EXPLORATION, DEVELOPMENT & PRODUCTION
Thursday, October 7, 1999
10:30 AM - 11:30 AM

Topic: Mining Exploration in Alaska - 1999 Update
Speaker(s): Curt Freeman, Avalon Development, Inc.

Speaker(s): Dr. David Szumigala, Alaska Division of Geological & Geophysical Surveys

Topic: Environmental Management at the Fort Knox Gold Mine
Speaker(s): Bill Jeffress, Fairbanks Gold Company

Topic: Large Mine Permitting
Speaker(s): Bob Loeffler, Alaska Department of Natural Resources

Speaker(s): Steve Borrell, Executive Director, Alaska Mining Association
Topic: Model or Partnership for Land Use Management
Speaker(s): Daryl Jordan, AHTNA Native Corp./Clearwater Environmental, Inc.
Topic: Presentation to be Announced
Speaker(s): Bill Orchow, President & CEO, Kennecott Minerals

SHORT COURSE #1
HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE TRAINING
Monday, October 4, 1999
8:30 AM - 5:30 PM

Topic: Eight Hour Refresher Course on Hazardous Wastes & Emergency Response Training
Instructor: To be announced
Continuing Education Credit Available: Pending course verification.

SHORT COURSE #2
GEOHAZARDS SHORT COURSE
Wednesday, October 6, 1999
11:15 AM - 5:15 PM

Topic: Geohazard Short Course Content to be Announced
Instructor: Robert Font, GeoScience Data Management
Continuing Education Credit Available: Yes

SHORT COURSE #3
MINING SHORT COURSE
Thursday, October 7, 1999
11:45 AM - 6:00 PM

Topic: Mining Short Course Content to be Announced
Instructor: David Abbott, Jr., AIPG Ethics Chairman
Continuing Education Credit Available: Pending course verification.
REGISTRATION FORM

Please place a check mark by each of your selections:

FULL CONFERENCE MEMBER REGISTRATION FEES:
(includes: Exhibitor reception, two drinks, opening mountaintop dinner & entertainment, keynote address, all technical sessions selected, your choice of one field trip on Wed., the awards banquet with dinner, entertainment & transfers, and the Business Breakfast Meeting).

Early Registration (postmark by 7/15/99) $195
Regular Registration (postmark by 9/15/99) $245
Late and or On-Site Registration $295
NON MEMBER REG. FEES:
Regular Registration (postmark by 9/15/99) $275
Late and or On-Site Registration $325
DAILY REGISTRATION FEES:
Mon. Oct 4th $85
Tue. Oct 5th $75
Wed. Oct 6th $150
Thur. Oct. 7th $75
NON MEMBER DAILY FEES:
Mon. Oct 4th $110
Tue. Oct 5th $100
Wed. Oct 6th $195
Thur. Oct. 7th $100

Please check the break-out sessions you will attend:
Check one choice: (1, 2, or 3)

- TECHNICAL SESSION # 1 - Engineering Geology
- TECHNICAL SESSION # 2 - Professional Ethics & Practices
- TECHNICAL SESSION # 3 - Inform. Based Applications

Check one choice: (4, 5 or 6)

- TECHNICAL SESSION # 4 - Oil & Gas Exploration
- TECHNICAL SESSION # 5 - Environmental Geology
- TECHNICAL SESSION # 6 - Educ. of Natural Resources

Check one choice: (7, 8, or 9)

- TECHNICAL SESSION # 7 - Mining Explor./Development
- TECHNICAL SESSION # 8 - Cold Regions
- TECHNICAL SESSION # 9 - Geopolitics

Registration for Short Courses:
- #1 HAZWOPER - $125.00
- #2 Geohazards - $70.00
- #3 Mining - $70.00

THIS SECTION TOTAL $_______

FIELD TRIP REGISTRATION:

Pre-Conference:
- Denali-Mt. McKinley - Oct. 1-4 $479.00
- Glenn Highway - Oct. 4 $55.00

During Conference:
- TUESDAY, OCT. 5TH
  - Anchorage Landslides $45.50
  - Turnagain Arm $45.50
- WEDNESDAY, OCT. 6TH
  - NO FEE-CHOOSE ONLY ONE:
    - Oil & Gas
    - Environmental Geology
    - Anchorage Geology
- THURSDAY, OCT 7
  - Eagle River Glacial $45.50
  - Portage Glacier $35.00
- FRIDAY, OCT 8
  - Kenai Fjords Cruise Tour $139.00
- SATURDAY, OCT. 9
  - Mount McKinley flightseeing tour $210.00

THIS SECTION TOTAL $_______

SPOUSE ACTIVITIES:

MONDAY, OCT. 4
- Opening Night Event $39.00

TUESDAY, OCT. 5
- Water Aerobics $15.00
- Guided Naturalist Hike $20.00
- City Tour & Banquet $93.00

WEDNESDAY, OCT. 6
- Portage Valley Tour $45.00

THURSDAY, OCT. 7
- Portage Valley Tour $45.00

THIS SECTION TOTAL $_____
CRUISE TO ALASKA

By Ferry and Bus from Bellingham, WA, to Westin Alyeska
via Ketchikan, Wrangell, Petersburg, Juneau, Skagway, Whitehorse, Tok, Valdez, and Anchorage

Follow the gold trails to the Yukon and Alaska

WEE Travel, Broomfield, CO, has arranged a one-way tour for persons going to the 1999 AIPG Annual Meeting in Alaska. On request, WEE Travel also can arrange travel to and from the tour. While organized to assist AIPG members, this is not an official AIPG-sponsored activity.

The tour is scheduled to depart Bellingham, WA, on the M/V Columbia at 6:00 pm Friday, 9/24, via the Inside Passage, with brief stops Sunday at Ketchikan, AK, Wrangell, and Petersburg, and arrive at Juneau at 1:45 am Monday. Monday and Monday night will be ashore in Juneau. It will leave Juneau on the M/V Matanuska at 10:45 am Tuesday, 9/28, stopping briefly at Haines and arriving at Skagway at 5:45 pm Tuesday. After overnight in Skagway, it will depart via restroom-equipped Charter Bus Wednesday morning, 9/29, with overnight stops at Whitehorse, YT, Tok, AK and Valdez, arriving at the Westin Alyeska, the Annual Meeting site, Saturday evening, 10/2.

Minimum participants required: 20
Maximum participants allowable: 28  Booking deadline is 7/1/99.

2 and 4-person cabins on M/V Columbia are available on a first-come-first served basis. Availability of 2-person cabins cannot be guaranteed until they are actually booked.

The price of $1020 per person based on 28 persons, sliding to $1425 per person based on 20 persons, is subject to change until time of booking. It includes

(1) Ferries from Bellingham to Juneau and Juneau to Skagway.
(2) Bus from Skagway to Westin Alyeska.
(3) Hotels in Juneau, Skagway, Whitehorse, Tok, and Valdez.

Price does not include

(1) Meals or gratuities, which are subject to individual choice.
(2) Insurance, covering Medical Expense, Trip Cancellation/Delay, Baggage and Travel Documents; is available at an additional cost of $70.00 per person.
(3) Air transport to Bellingham and from Anchorage. This is available at additional cost, which is dependent upon place of origin and destination.

This is a self-guided field trip. Efforts are being made to secure appropriate geological guidebooks. Each participant should maintain a log for personal tax documentation.

Early booking is advised to enhance availability of 2-person cabins aboard M/V Columbia.

Participants are advised to carry passports.

For information & booking, contact:
Carol at WEE Travel
1380 West Midway Blvd.
Broomfield, CO 80020
303/367-9974 or 800/364-0253
Anchorage, Alaska  October 2-9, 1999

HOUSING & TRAVEL ARRANGEMENTS

REGISTRATION FORM

<table>
<thead>
<tr>
<th>CONFERENCE HOTEL:</th>
<th>IMPORTANT NOTE:</th>
</tr>
</thead>
</table>
| The Westin Alyeska Prince Resort  
1001 Arlberg Drive  
Girdwood, Alaska 99587  
Phone: (907) 754-1111  
Fax: (907) 754-2200  
RATE: $80.00 Single or Double  
VALID: October 1 - 12, 1999 | Room reservations at the conference rate may only be booked using this form. Please do not call the hotel to make your reservation. They will not be able to accept it. To book your room reservation, complete this form and fax it to Alaska Destination Specialists at (907) 276-2828. If you have questions, please call (800) 387-3474 or e-mail them at: ads@servcom.com |

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<th>HOTEL RESERVATION FORM</th>
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<td>RESERVATION LAST NAME: ______________________________ FIRST NAME: ___________________________</td>
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<td>ARRIVAL DATE:_________________ ARRIVAL TIME: _______________ DEPARTURE DATE: _________________</td>
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<td>ROOM TYPE: _____ Single _____ Double # OF PERSONS IN ROOM: ______ BEDS NEEDED: ___ 1 ___ 2</td>
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<td>CREDIT CARD NUMBER TO GUARANTEE ROOM: _____________________________________________________</td>
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<tr>
<td>ROOM RATE: $80.00 TAX: 8% Reservations must be canceled in writing a minimum of 48 hours prior to arrival to avoid a charge equal to one night’s room and tax (Facsimile or e-mail both acceptable for cancellation.)</td>
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<tr>
<td>CREDIT CARD___________________________________________ EXPIRATION DATE: ________</td>
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</tbody>
</table>

AIR RESERVATION RATE INFORMATION

Alaska Destination Specialists is the official conference planning company for the 1999 Annual Meeting in Anchorage. They have negotiated discounted airfares for attendees and their guests traveling to Anchorage for the AIPG meeting. Before you purchase your ticket to Anchorage, check and compare the discounted rates available to AIPG members exclusively through Alaska Destination Specialists. Just call (800) 387-3474 and ask for the AIPG Air/Tour Desk.
Recent writings by President Fails and Executive Director Knight have discussed the importance of retaining certification after registration. I will add a few personal thoughts to these.

The need for registration has now been firmly established. I have long supported registration efforts in my own state of Texas. For what now seems an eternity, we have fought to implement it in the Lone Star State. As I write this note, we are still short of reaching our goal. Simply stated, registration is needed in our society to ensure the protection of the general public. It is the only feasible way in which we can guarantee that those that practice the profession have, at least, the minimum required skills to do so. Its purpose is to enhance public safety. It is certainly not intended for the benefit of the professional practitioner. In short, registration is crucial and we should all support it.

Is certification important beyond registration? In my opinion, it is. Certification is a credential of honor. In our profession we make our mark through the quality of our work, the honesty of our actions, and the integrity of our word. Those attributes describe the certified professionals I know and associate with. As certified professionals, we are awarded an honorable title, a title that we earn through years of proven accomplishments. As one who has fought at the university level for years, I can attest to the fact that on any given day some student may “luck out” and pass a test. There is no “lucking out” when it comes to building a record of experience, credentials, and achievements. Certification attests to a level of professionalism that is recognized by those who know us best, our peers. To become certified is to become recognized; it is an honor that we should be immensely proud of. On a personal level, certification has also brought me the opportunity to represent our institute and our country in other parts of the world. It is through certification that I have been able to attain its equivalent connotation in other regions of the globe. In short, certification is covetable and we should all strive for it.

Is certification important beyond registration? If you ask me, indeed it is!

Editor's note: This is the third in a proposed series of articles dealing with the role of AIPG in states that register geologists. If you have insightful ideas or opinions on this subject, please consider submitting an article or Letter to the Editor for publication in The Professional Geologist. If a sufficient number of papers on this subject are received and published, they could be collected and republished in an AIPG Reprint Series, for use as a long-term aid in recruiting.

More Volunteers Needed for Peer Review Subcommittee

Robert J. Weimer, CPG-00098, Chairman

In the January 1999 issue of The Professional Geologist, President Fails described a proposed program of AIPG Reviewers for National Science Foundation Research Grants. Tom's summary of the proposal is as follows:

“NSF typically receives about 1600 proposals annually for financial support of geoscience research in all fields of practice. The academic community is the source of most proposals, and of most proposal reviewers as well. Some industrial geologists also serve as reviewers. NSF is interested in increasing the participation of working geologists, people who are outside the bureaucracies, and invites the cooperation of AIPG and its members in this regard. The two levels in the NSF review process are 1) mail reviewers, and 2) review panels. Initially AIPG members might be most suited to become mail reviewers, although some might serve on review panels.”

To date, the response to Tom's inquiry of member interest and involvement has been insufficient to have a viable AIPG support program. This note is to encourage you to volunteer your talents and time in support of the NSF Peer Review Process, a vital activity in evaluating and charting the direction of government-supported geoscience research. If interested in serving, please send a brief application to Tom Fails, CPG-03174, AIPG Headquarters, 8703 Yates Drive, Suite 103, Westminster, CO 80030. Include a resume with your education, experience, and specialty background. The deadline for applying is September 15, 1999. For additional details, please refer to the January article, or contact me—Dr. Robert J. Weimer, CPG-00098, Professor Emeritus, Department of Geology and Geological Engineering, Colorado School of Mines, Golden, CO 80401 (e-mail: rweimer@mines.edu).
The Executive Summary of the Commission’s 1999 National Certification Census (NCC) is available to members, survey participants, and other associations upon request. Members of AIPG, which holds membership in NCC, can take advantage of this offer by identifying themselves as AIPG members.

There is a detailed 1999 National Certification Census Report, which consists of approximately 20 pages with charts. In total, there were 135 questions in the census covering General Information: organization, location, date established, tax classification, number of participants, and profession or occupation represented; and additional Specific Topics: category titles, program benefits, coverage, committees, staff support, registration fees, application process, basic requirements, components, evaluation, operation, preparation, recognition, and promotion.

Summary data are available in the detailed Census Report. The confidentiality of responses from participating associations is maintained, and individual program information and data are not released.

The detailed Census Report is available to association members, survey participants, and other associations upon request. The publication is $10 for members and survey participants, and $20 for other associations, which covers related expenses for printing, processing, mailing, and the initial survey. Requests for the Census Report should be addressed in writing to the Commission.

The California Board is developing comity agreements with 19 other states that administer the Association of State Boards of Geology (ASBOG) examination. Comity agreements will allow geologists to be licensed in other states based on the ASBOG examination and the ability to meet requirements of other states. Licensure in California based on comity will be based on an applicant’s ability to:

- Pass the ASBOG examination on or after fall 1996
- Pass the California supplemental examination
- Meet the Board’s education and experience requirements

Current Registered Geologists licensed by the Board ARE NOT required to take the ASBOG examination. The ASBOG examination will replace the current examination administered by the Board beginning in spring 2000.
At the March 19th and 20th public hearings for the 2000 International Building Code, the California Council of Geoscience Organizations (CCGO) succeeded in ensuring the consideration of geologic factors in pertinent portions of the new code. Initially proposed by CCGO in October of 1998, the Structural Committee voted to accept the addition of slope stability as a factor to be considered in foundation and soils investigations. CCGO also provided testimony against a proposal by the National Council of Architectural Registration Boards which would have excluded geologists from performing basic components of geologic practice including the classification and investigation of soil, the number and types of borings in an investigation program, selection of appropriate drilling equipment, and overseeing boring and sampling programs. The consideration of slope stability in foundation and soils investigations, along with all other portions of the 2000 International Building Code, now goes before a vote of the memberships of the International Conference of Building Officials, the Building Officials and Code Administrators, and the Southern Building Code Congress International, Inc., at their Joint Annual Conference, to be held on September 12-17, 1999, in St. Louis, Missouri. The need for involvement in this process was necessitated by the nearly complete exclusion of geologic consideration from the 2000 International Building Code. This new code will replace the Uniform Building Code in the United States and serve as the benchmark for construction internationally. CCGO was represented at the hearings by Betsy Mathieson, Vice President.

CCGO also proposed a change in the definition of "active fault" which, as presented in the current version of the code, requires rupture in the past 11,000 years in addition to a slip rate of at least 1mm per year. CCGO’s proposed elimination of the minimum slip rate requirement was opposed by the Code Resource Support Committee, on the grounds that the change was inconsistent with National Earthquake Hazard Reduction Program (NEHRP) guidelines. CCGO will consult with NEHRP regarding this issue.

The ICBO Structural Committee also rejected CCGO’s proposal to reinstate a requirement for geologic observation during grading. Opposition testimony came from the National Association of Home Builders, who argued that the wording (from the 1994 Uniform Building Code) was too broad. One committee member provided a reference to IBC Section 1707.7, which has a requirement for a special inspection before placement of fill. Unfortunately, no requirement exists for inspection of cut slopes during grading.

CCGO’s final proposal was to replace the term “Registered Design Professional” with “Registered Professional” because many geologists do not consider themselves “design” professionals. However, Paul Sweeney, Executive Officer of the California State Board of Registration for Geologists and Geophysicists, has provided information that California’s Department of Consumer Affairs includes Registered Geologists in its list of design professionals, along with Professional Engineers, Architects, and Landscape Architects. As it became evident that the proposal would not be accepted, CCGO withdrew it in order to preserve the goodwill gained by our previous testimony. It should be noted, however, that CCGO’s Work Plan for 1999 includes further research of the occurrence and appropriateness of the term “Registered Design Professional” in California statutes, regulations, and public policies.

During CCGO’s testimony, an unanticipated alliance arose with a group of interior designers from several states and Canada who also spoke against the architects’ proposal. A member of this group expressed surprise later that so few interior designers attended the hearings. Another responded, “There’s a lot of apathy out there. If they knew the threat to their livelihood, they’d be here.” That conversation could easily have been between two geologists. We hope CCGO’s success at the hearings will inspire other geoscientists to turn out at such critical events in the future. Thank you to those of you who contributed background information and suggestions for the weekend’s testimony.

For further information or to volunteer to help in the continued effort to keep geology in building codes, please contact Betsy Mathieson via e-mail at Bmathieson@post.Harvard.edu, or via phone at (408) 297-6969.

NEW AIPG WEBSITE UP AND RUNNING

Check out AIPG’s new web site at <http://www.aipg.org>. Members will need to call or e-mail Headquarters to get their ID Number and Password to access the Members-only portion of the site. Login instructions are on the site.

We look forward to your comments and suggestions on the new site.
Summary of the January Executive Committee Meeting

Ronald E. Alexander, CPG-06372, Advisory Board Representative

With an ambitious agenda in the forefront, the 1999 Executive Committee convened for its first meeting on Saturday, January 23, at AIPG headquarters in Arvada with President Thomas G. Falls presiding. In anticipation of the full agenda, a two and a half hour informal orientation meeting was held on the previous Friday night to discuss a wide variety of agenda-related items.

Of specific importance among Friday evening’s topics were suggestions presented by the 1998 Section representatives during the Advisory Board meetings held at last year's annual meeting in Baton Rouge, Louisiana. A summary of these suggestions was listed in the December, ‘98 TPG in then President-Elect Fails’ “Summary of AIPG Section Reports and Recommendations . . .” It is of great importance to the Executive Committee to address section concerns and suggestions, in addition to proceeding with its own agenda. Accordingly, the ten most frequent suggestions were assigned to various Executive Committee members who have, in turn, each been charged with responding in an appropriate manner. Some will result in communications with section presidents regarding how best to initiate suggestions, while some may be implemented with only minimal notification regarding the end results. Regardless, all are intended to better serve the general membership in ways that are directly voiced to the Executive Committee each year at the Advisory Board Meetings, which is exactly their intended purpose.

The scheduled meeting on Saturday began with approval of minutes of various meetings held during the annual meeting in Baton Rouge last October. The resignation of William Siok, advisory board representative from the Northeast Section, was accepted, effective March 31, 1999. With Mr. Siok assuming the responsibilities of AIPG's new Executive Director at that time, a candidate is presently being sought to fill the vacant spot on the Executive Committee.

In an effort to stay abreast of the Institute's ongoing financial situation, a Task Force was established to monitor revenues, dues and non-dues, and expenses and other relevant factors such as the annual inflation rate. The group will report its review to the Executive Committee prior to June 15, 1999, for further action regarding recommended amount of national dues for the year 2000. Although there is no intent to increase dues next year or automatically thereafter, the goal of this group is to stay on top of finances as it relates to annual revenue vs. expense ratios in case it is necessary to do so in the future.

An additional Task Force was established to investigate the advisability and feasibility of seeking grants from Foundations and Corporations for publications and projects related to the mission(s) of the Institute and to identify qualifying candidate publications and projects. It also will report its findings and submit recommendations to the Executive Committee at its Spring meeting.

Editor Myrna Killey presented a report on the progress of publications to date as well as activities of the Publications Committee. Of a more notable item, she reported that Wendy Davidson and Karen Spaulding have the new web site up and running. Continuing efforts are being made to edit individual sections. Any suggestions from the membership are greatly appreciated regarding content, appearances, editing or otherwise.

Of a more operational matter, discussion was engaged in creating a separate committee aside from the Publications Committee to deal with marketing and advertising only of publications. With ever increasing responsibilities of the existing committee with production of various publications, it is desired to involve additional individuals to focus on the marketing of such items to assist in the efforts to increase non-dues income. This new committee is tentatively to be called Publications Marketing and Advertising. A more detailed announcement shall be highlighted in subsequent issues of The Professional Geologist. Should you be interested in assisting, contact Myrna Killey, Editor, for additional information.

Vice President Robert Font has completed the preparation of a “geologic hazards” course intended for non-geoscience professionals. In addition to bringing geology into the public’s eye with a focus on advocacy for the profession, success of this course has the potential to have a dramatic impact on non-dues income. The course will quite likely become one of many important topics considered by a new Public Education Committee upon its creation.

A proposed action item at the Executive Committee meeting was to request that the Academic Education Committee investigate the feasibility of expanding the AIPG Cooperative Evaluation Program into an accreditation program. Presently, that item has been tabled to allow AGI to discuss the potential of their role in a proposed program as such. Additional action will follow at the Spring Executive Committee meeting in April.

The 3rd annual Washington, D.C. Fly-In has been scheduled for April 25-27, with the Spring Executive Committee meeting tentatively scheduled for Saturday, April 24, also in Washington. The previous success of this event has made it a “must” for the Institute as well as many past participants, who feel a certain degree of personal gratification knowing that they made a difference with their efforts to communicate the opinions of the professional geological community to policy-makers in Washington.

With this year’s annual meeting being in Anchorage, Alaska, the Annual Meeting Committee has been busily corresponding with the Alaska Section to iron out the final details. The goal is to make the meeting as enticing as possible with schedules flexible to allow for maximum participation in all events, while, at the same time, permit attendance at technical sessions and required meetings. The task has proven to be quite challenging, yet with the intense interaction and cooperation between the Alaska Section and the Annual Meetings Committee, it will surely result in a most memorable meeting. I hope to see many of you there.
AIPG Testimony in Support of Reauthorization of the National Cooperative Geologic Mapping Program

The American Institute of Professional Geologists (AIPG) supports the reauthorization of and funding for the National Cooperative Geologic Mapping Act and its implementation by the United States Geological Survey (USGS). Geologic mapping is essential for the USGS’s primary mission to evaluate the resources of the Nation, as set forth in the Organic Act of 1879 (20 Stat. 394; 43 U.S.C. 31). The Organic Act established the USGS, providing for “the classification of public lands, the examination of the geological structure, mineral resources, and products of the national domain.” Geologic mapping provides the fundamental data that enable the evaluation of the geology, mineral and energy resources, water resources (both surface and subsurface), and natural hazards, such as coastal flooding and erosion, river floodplain identification, earthquakes, and landslides. In addition, geologic mapping provides the baseline of fundamental data for environmental and hydrologic work from which local, state, and federal government agencies, the geological consulting community, and the public benefit. For example, detailed geologic mapping of the soils, lithology, and stratigraphy of wetlands is used by the Biological Resources Division of the USGS to understand the interaction of flora and fauna with the Earth and by the U.S. Army Corps of Engineers to protect these areas of natural resources.

The Nation expects geospatial data and products to be delivered quickly and efficiently in today’s information age. The various components of the National Cooperative Geologic Mapping Act are designated to address these very issues. For example, the Act has enabled high-priority geologic mapping of urban corridors to better manage urban growth through increased understanding of the terrestrial environment and natural hazards. The educational component of the Act will assure the proper training of future geologists who will be skilled in the science of geologic mapping.

Update from the Subcommittee on Competition between Government and the Private Sector

By Dawn H. Garcia, CPG-08313, Subcommittee Chair

An item of concern to the Subcommittee was an article in the Missouri Department of Natural Resources newsletter, Missouri Resources. The article stated that a “log-for-fee program to process residue logs for wells” was available. This program appeared to have aspects of competition with the private sector. The Missouri State Geologist, Jim Williams, CPG-00374, was contacted regarding the article. Dr. Williams indicated that the insoluble residue logging program was in conjunction with the Public Drinking Water Program, which required that permitted public water supply wells be logged to indicate the best water-producing zones. The article was misleading in omitting that it is a mandated program for public water supply wells. The program involves about 50 wells annually for the State of Missouri. The insoluble residue technique was developed in the early 1930s by H.S. McQueen of the Missouri Geological Survey and later described by Earl McCracken in a 1955 AAPG bulletin (Vol 39, No. 1). The technique has worked well in logging thick sequences of relatively featureless dolomites and identifying zones that are water-productive.

AIPG’s conclusion was that this mandated program of insoluble residue logging for public water supply wells is not in competition with private sector activities. Dr. Williams’ help in reviewing the article and providing additional information is appreciated.

SENIOR GEOLOGIST

Tarmac America, a $500 million company with a leading presence in the construction materials industry, has an excellent opportunity for a Senior Geologist, based in Petersburg (Richmond), Virginia. Position will develop existing minerals reserves, organize exploration projects and quarry mine development plans and provide technical assistance to mine operations management. Qualifications: Bachelor’s Degree in Geology or related field, plus 5-7 years job-related experience; experience in project management; good supervisory, interpersonal, and computer service skills; strong knowledge of geological and mining principles and terminology. Qualified individuals should mail or fax a cover letter, resume, and salary requirements to: Tarmac America (RP), 1151 Azalea Garden Road, Norfolk, VA 23502, or Fax # (757) 853-3756. EOE-M/F. All qualified applicants will receive consideration for employment without regard to race, color, religion, physical or mental handicap, sex, or national origin.

GSA Ethics Session Sponsored by AIPG

The AIPG Ethics Committee is sponsoring a session at the Geological Society of America’s Annual Meeting in Denver, October 25-28. The title of the session is “Geoscience Ethics Guidelines: A Discussion of their Development, Utility, and Implementation.” Abstract deadline is July 12. For more information, contact David Abbott, Ethics Committee Chairman, at dmageol@aol.com or (303) 394-0321.
ALLOW ME TO INTRODUCE MYSELF

William J. Siok, CPG-04773

Most of you know that Bill Knight, CPG-00153, has retired from the position of AIPG Executive Director as of April 31, 1999. I have the honor and privilege of having been selected by the Executive Committee as Bill’s successor and as your Executive Director. This TPG column is not my first as an AIPG member, but it is my first in the capacity of AIPG Executive Director. I take this opportunity to mention a number of items, which taken together, may provide some insight into my concerns and perspective for those who do not know me.

William V. Siok

I have some rather large shoes to fill. Many Members have had the opportunity during Bill’s ten years as Executive Director to meet and work with him. His tenure as Executive Director has been more than successful. My experience with Bill has been a personal and professional pleasure. Those of you who have worked closely with Bill can each attest to his accomplishments, but when his entire record is considered, there is no doubt that he always had the best interests of us, the collective AIPG, in mind. I wish to use this column to thank him personally and publicly on behalf of AIPG for all he has done for AIPG. I wish Bill and his gracious wife, Martha, the best for the future.

Why Participate in AIPG?

Nothing new in this question. Each Member, whether CPG or not, has something to gain by belonging to AIPG. The list has oft been repeated, and includes: advocacy for the profession by AIPG at state and national levels; at the Section level with national support, a ready-made advocacy organization for establishing registration statutes; a national network of professional geology colleagues; a resource for resolution of professional ethics issues; an organization which provides all Members opportunities (through Sections and National AIPG) to become involved in resolution of professional issues of paramount significance; an organization dedicated to strengthening the professional and statutory status of geology and geologists.

You’ve probably thought it yourself - what is AIPG really doing on my behalf? I’ve discovered that if one has a gripe or perceives a failing, the best way to resolve it is to become active and DO something about it! Please, jump in! AIPG can only benefit with the participation of more Members. If you wish to know how, contact anyone on the Executive Committee, Section or National, or contact me. I, and we, welcome you and your talents.

Certification, Anything BUT a Dead Horse Issue

Certification by AIPG attests to a geologist’s educational preparation, experience in the practice, ethical and professional reputation, and recognition by one’s peers. As AIPG reviews certification standards with the objective of strengthening them, the credential will only become more valuable. The ultimate objective of AIPG certification is that it should be as much a credential attesting to competency for geologists as Board Certification is for practicing physicians. The March issue of TPG contains a salient column “After the Rapture, or AIPG’s Role After Registration” by Bill Knight which cogently explains the increasing, rather than decreasing, need for AIPG after one obtains a State-sanctioned license to practice geology. The thesis will not be reviewed here, but if you have doubts about the value of AIPG now that you have a license, please read the article and then ask yourself the question again.

There are additional points of view in an article by 1999 Vice President Robert Font, CPG-03953, on page 16 of this issue of TPG. Robert adds cogent arguments to the value of AIPG certification.

Membership

Estimates suggest that geologists in the United States number between 50,000 to 100,000. As a professional group, we are not as visible as engineers. If AIPG membership consists of 5% of geologists, it seems apparent that we should have more members. The professional, as opposed to the technical, objectives of AIPG make us the only organization in the USA which exists primarily to represent you and the profession. Sometimes the distinction between technical associations (especially those which offer certification) and AIPG is not readily apparent to Members or prospective Members. AIPG, alone and as a member society of AGI, will continue to improve educational efforts to inform geologists and the public of the role geology and geologists play in protecting and preserving the public health and welfare. We will automatically be more effective as our numbers grow. Lawmakers pay attention to constituents who belong to recognized associations. (They react quickly when the AMA sneezes.) Do you have any ideas to offer which might help AIPG reach more geologists and convince them that self-interest, at the least, should compel them to join our ranks and help us become a louder voice in the cacophonous market place?

Non-Dues Revenues

AIPG operates largely on the basis of revenue from member dues. The annual budget has been supplemented to an extent by proceeds from sale of publications, grants from the AIPG Foundation, and gifts from members. These mechanisms are helpful but cannot contribute sufficient revenue to allow a reduction in dues. This has been a primary subject for consideration by recent Executive Committees. In 1998, 1999 President-Elect Dennis Pennington, CPG-04401, organized a Sponsorship Program to solicit funding from businesses and other organizations which depend directly upon geologists for their livelihoods, i.e. drillers, labs, printers. The program is ready for implementation and it is anticipated that the fund generated by the Sponsorship Program will be used to support AIPG advocacy activities. AIPG will, in the months ahead, explore the feasibility of seeking private foundation grants to support outreach and educational efforts.

Additional sources of revenue are desirable. A long-term goal of AIPG is the establishment of a fund capable of generating an annual revenue stream, however modest, to provide relief from dues dependency. We seek ideas. We also seek Members willing to volunteer to work with the Sponsorship Committee to solicit funds. Think about it. Contact me or members of your Section or National Executive Committees, if for no other reason than to express your opinion.

Headquarters Staff

I would be remiss not to thank Wendy Davidson, AIPG Publications Manager, Karen Spaulding, Member Services Manager, and Catherine O’Keefe, Administrative Assistant, for their continuing dedication to AIPG. Wendy Davidson has been with AIPG, in capacities of increasing responsibilities, for 16
Earth Science Week 2000

On April 23, 1999, I attended the Government Affairs Program (GAP) Advisory Board meeting at AGI headquarters in Alexandria, Virginia. Among the issues discussed was activities which might be undertaken by GAP associated with Earth Science Week 2000. An idea offered by Advisory Committee Chairman Murray Hitzman, CPG-09562, is for a nation-wide effort to meet with all congressional Representatives, in their respective home districts, during Earth Science Week 2000. As you may imagine, the logistics of successfully accomplishing this undertaking are enormous. The planning has just begun and limited information is currently available. However, a major building block to success is a sufficient number of volunteers willing to commit to visiting their respective Congressman, in the home district, during Earth Science Week 2000.

As AIPG representative to the GAP meeting, it was requested that I ask all AIPG Members to consider participating in this effort. If this can be implemented, it will provide geologists with a unique and incredibly valuable opportunity to gain nationwide exposure. I imagine the benefit to us and our profession from successful simultaneous nationwide visits with all our congressmen. If the idea intrigues and interests you, please contact headquarters. I will pass all volunteer names to GAP.

Washington Fly-In

Following the GAP meeting, I participated in a four-day Washington, D.C. advocacy effort (fly-in). This year's Fly-In was organized by Jim Shotwell, CPG-08290. Kudos to Jim for an excellent agenda and successful series of meetings. The agenda included, among others, visits with: Director Dr. Charles Groat of the USGS; representatives of the National Science Foundation, DOE, the Sierra Club, FEMA, NSPE, ASCE-Geo-Institute, National Research Council, National Mining Association, Forest Service; and some congressional delegations. More will appear in subsequent issues of TPG. Suffice it to say that the activity is an eye-opener and provides an opportunity to understand the role that geology and geologists have played, continue to play, and should play into the future. It also allows one to understand the hard work which remains to be done in order to secure a place for the profession of geology in our nation's future.

It should be noted that the expenses associated with the Fly-In are largely borne by the participants. The other AIPG participants in this year's Fly-In included Gene Aleshin, CPG-00536; Don Cronin, CPG-03341; Kel Buchanan, CPG-06058; Tom Fols, CPG-00174; Robert Font, CPG-03953; Dawn Garcia, CPG-08313; John J. Jansen, CPG-06550; Lynn Kantner, CPG-06205; L.C. Lee, CPG-04838; Charles Mankin, CPG-01415; Dennis Pennington, CPG-04401; John Price, CPG-07814; and Larry Woodfork, CPG-02370. If you're skeptical of the value of this type of advocacy, I invite you to test your skepticism by participating next year.

Headquarters Relocation

As of June 21 this year, AIPG headquarters will be in a new location. Our current space is too large for our needs and too expensive. Please note that our new address will be 8703 Yates Drive, Suite 200, Westminster, Colorado 80030. Telephone (303) 412-6205. This information will be published in the 1999 Membership Directory which will be mailed in the near future. The move will preclude the necessity of expending about $12,000 this year and will contribute to what should be a balanced budget by the end of FY 1999.

Last But Not Least

Early in the first week of May, word was received that the North Carolina Geological Survey was in imminent danger of elimination. The North Carolina Survey, the oldest in the nation, dates back to 1823. Thanks to an effort led by Carolina Section Members Jeff Reid, CPG-07390, Tex Gilmore, CPG-06039, and other constituents, a massive e-mail, letter, and telephone campaign was mobilized to advise North Carolina legislators of the role the Survey has played and continues to play in support of the commonwealth.

State Geologist Charles Gardner, CPG-02263, only learned of the proposed cuts at the end of April. The advocacy effort was apparently successful because the proposed reduction in force was tabled by the legislature. More detail will be forthcoming in a future issue of TPG, but the attempt by the North Carolina legislature to eliminate the Survey should galvanize us to the possibilities of similar attempts in other jurisdictions.

We need to be vigilant. The next time a legislative body proposes the elimination of a geological survey, or other geologic agency or service, the local forces may not have the time to respond to stave off the inevitable. The lesson to be taken from this close call is to be ever vigilant for legislative proposals of this nature. Use the resources of AIPG at the Section level and at the National level, if appropriate, to advocate. But above all, do not allow complacency regarding your particular professional circumstances to lull you into a false sense of security. The elimination of a state geological survey has ripple effects beyond the immediate losses of professional positions. Those ripple effects reach into the activities of the private sector as well. If you become aware of similar threats in your regions/states, take action. Notify your Section officers, notify AIPG headquarters. Then roll up your sleeves!

LETTER TO THE EDITOR

Dear Editor:

The Executive Committee of the National Association of State Boards of Geology (ASBOG) read with interest Bill Knight's article in the March 1999 issue of The Professional Geologist regarding the role of AIPG in states with licensure. ASBOG is pleased to see that its Affiliate Members (including AAPG, AEG, AIPG, and NGWA) continue to provide support for the licensure process and to function as advocates for the profession of geology, a role in which State Member Boards and ASBOG can have no part.

ASBOG has always recognized that the missions of ASBOG and its Affiliate Members are different. The role of ASBOG is to support State Member Boards in protecting the health, safety, and welfare of the public. ASBOG develops and maintains national licensure examinations for geologists. These examinations are used by State Member Boards as a part of the evaluation of applicants for licensure. ASBOG provides a forum for these boards to discuss issues and establish mutual understanding.

ASBOG interacts with professional organizations by providing information to assist these organizations in developing legislation for licensure of geologists. Through national examinations, ASBOG facilitates cooperative licensure allowing public access to a large population of qualified geologists.

ASBOG recognizes that its emissions of its Affiliate Members are to provide forums to enhance the technical credentials of geologists and to be legal and political advocates for geologists and the profession of geology. ASBOG's mission is focused on supporting the role of the State Member Boards' protection of the public rather than the missions of its Affiliate Members, whose obligations are to their professional members. Only through our mutual functions can we fully address the issues.

Respectfully submitted,

ASBOG Executive Committee

Bekki White, President
John C. Philley, President Elect
Darrel W. Schmitz, Secretary
Frank S. Turek, Treasurer

Bekki White, President
John C. Philley, President Elect
Darrel W. Schmitz, Secretary
Frank S. Turek, Treasurer

Jaan Underwood, Immediate Past President, CPG-06640
Hearing held on Climate Change Bill

On March 24, the Senate Environment and Public Works Committee held a hearing on S. 547, the Credit for Voluntary Reductions Act of 1999. The committee is chaired by bill sponsor John Chafee (R-RI). S. 547 would provide businesses with credits for current greenhouse gas reductions that could be used under a future mandatory reduction scheme. For the most part, the witnesses—including Eileen Claussen from the Pew Center on Global Climate Change, which is comprised of more than 20 large companies; Dale Landgren from Wisconsin Electric Power Company; and Tia Nelson from the Nature Conservancy—seemed to accept that a binding treaty to reduce greenhouse gases will eventually come into effect, even if it is not the Kyoto Protocol. They urged passage of this bill to encourage companies to take action now without being penalized later. More information on both the bill and the hearing is available at http://www.agiweb.org/gap/legis106/climate.html. In other climate news, Senate Energy and Natural Resources Chair Frank Murkowski (R-AK) and Sen. Chuck Hagel (R-NE) plan to introduce a competing bill after the Easter recess that would also promote voluntary efforts to reduce emissions but would authorize approximately $33.5 billion in each of the next five years for operation of the network. The last NEHRP authorization—the bill also includes five-year authorizations for two new projects: The Advanced Seismic Research and Monitoring System and the Network for Earthquake Engineering Simulation. For the advanced seismic system, the bill would authorize approximately $33.5 million in each of the next five years for the USGS to expand and modernize seismic and strong motion instrumentation. The bill also authorizes additional funds for operation of the network. The last NEHRP authorization asked the USGS to study development of such a network, and the report of that study is expected to be released by the Department of the Interior in the near future. The Seismological Society of America has been a vocal supporter of the advanced seismic network and is encouraging its members to contact their senators and representatives on this issue. For more, see http://www.agiweb.org/gap/legis106/nehrp.html.

New ANWR Legislation Introduced

The debate over opening the Arctic National Wildlife Refuge (ANWR) to petroleum exploration continues. Rep. Bruce Vento (D-MN) introduced H.R. 1239, the Morris K. Udall Wilderness Act, on March 23rd with 116 bipartisan cosponsors. The bill would prohibit drilling in any part of ANWR and is named after the former chairman of the House Interior and Insular Affairs (now Resources) Committee who passed away earlier this year. In his opening remarks, Rep. Vento stated: “Thanks to the late chairman Mo Udall’s perseverance and dedication to the environment, the Arctic Refuge has been spared from the oil companies and the scarring effects of oil and gas exploration. We must remain united and continue his legacy to fight for the permanent preservation of the Arctic Refuge’s coastal plain. Preventing the exploitation of the coastal plain is one of many solutions that can be employed today to protect Alaska’s natural beauty and to prevent another tragedy similar to the one that occurred in Prince William Sound ten years ago,” referring to the Exxon Valdez oil spill. The bill is not supported by the Alaska delegation, which remains committed to developing the resources in the so-called 1002 Area of the coastal plain in ANWR. More information at http://www.agiweb.org/legis106/anwr.html.

Congress Hears Oil Industry Concerns

With recent oil prices lower in constant dollars than they were in the 1950’s, many oil producers have been making trips to Washington, DC to bring their plight before Congress. Five committees in the House and the Senate have held hearings on the oil patch crisis during February and March. The industry’s plight was summed up in a graphic analogy by Texas independent producer John Bell in his testimony at one such hearing: domestic oil production is cut and will continue to bleed profusely until Congress can come to industry’s aid like an EMT crew in an ambulance. The majority of American sentiment, however, has been more influenced by record low prices at the pump. Americans filling up on cheap gasoline are not inclined to listen closely to warnings that these prices—now starting to rise again—are forcing domestic producers out of work. Rep. Wes Watkins (R-OK) testified: “Since October of 1997, our domestic oil and gas industry has lost 57,000 jobs.”

At a time when the United States is engaged in military actions in the Middle East and the Balkans, producers and legislators are also raising national security concerns over increased US dependency on foreign sources of oil. The Senate Energy and Natural Resources and Foreign Relations Committees held a joint hearing on the return of Iraqi oil to world markets—portrayed by Jay Hakes of the Department of Energy’s Energy...
Endangered Species Act Bill Introduced

Congress has unsuccessfully attempted to reauthorize the Endangered Species Act since 1992, but will try again this year. Rep. George Miller (D-CA) introduced H.R. 960, the Endangered Species Recovery Act of 1999, in early March. The bill already has 70 cosponsors and the support of “300 environmental, religious, fishing, consumer, and scientific organizations.” The bill would require that incidental take permits, habitat conservation plans, and federal actions are consistent with recovery. It also provides tax credits, deferrals, and deductions for habitat protection. The bill encourages ecosystem planning on a regional basis through the development of multiple landowner, multiple species conservation plans and contains a provision requiring the federal government to develop a recovery plan within 30 months of a species being listed as endangered. The bill has been referred to the House Resources Committee, whose chairman Don Young (R-AK) last week introduced legislation, H.R. 1142, that would require the federal government to pay compensation to private property owners when forcing them to use their land for wildlife habitat under the Endangered Species Act. More information at: http://www.agi-web.org/egis.html#esa.

AASG Gives Out Inaugural Pick and Gavel Awards

On March 16th, the Association of American State Geologists held a reception and dinner at the Cosmos Club in Washington, DC to honor the four recipients of the newly established AASG Pick and Gavel Award, which recognizes leaders who have made major contributions to the advancement of the geosciences. On hand to receive their awards were Senator Larry Craig (R-ID), Representatives Nick J oe Rahall (D-WV) and Barbara Cubin (R-WY), and National Mining Association President Richard L. Lawson.

AGI Testifies Before Task Force on Environment

As reported in a special update earlier this month, AGI provided testimony to the National Science Board’s Task Force on the Environment at a town hall meeting held on March 8th at NSF headquarters in Arlington, Virginia. The task force was established last year to help the National Science Foundation (NSF) define the scope of its role with respect to environmental research, education, and assessment. AGI’s testimony sought to ensure that the task force’s vision of environmental research and education includes the geosciences. It drew on previous AGI congressional testimony on NSF as well as the AGI Environmental Geoscience Advisory Committee’s 1995 white paper on the role of the earth sciences in a National Institute for the Environment (NIE). The task force’s report will be released at a National Science Board meeting in early May. The NSB task force is itself partly an outgrowth of the science board’s rejection last year of a proposal to create a NIE within NSF. The AGI testimony and white paper as well as information on NIE can be found at http://www.agi-web.org/egis.html#nie.

Tentative Schedule of Upcoming GAP Activities

• April 11-13, AAPG Annual Convention, San Antonio, TX
• April 14-16, AAAS Science & Technology Colloquium, Washington, DC

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AIPG Office to Move

David M. Abbott, Jr., Chairman, Office Lease Task Force

The AIPG headquarters office will move June 21st to 8703 Yates Drive, Suite 200, Westminster, CO 80030, telephone (303) 412-6205 and fax (303) 412-6219. The move was prompted by the need to make better use of the space rented, the need to keep operating costs down, and the need to provide our staff with a pleasant working environment. All these goals will be met by the new location. If you ask, the staff will tell you they’re pleased with the new space. If pressed, they’ll admit to being really excited!

Headquarters has been at its current location since 1982. Recognizing the lease would expire in June 1999, 1998 President Steve Testa asked me to chair a Task Force to identify space needs, examine ways to reduce space costs, and locate a new office if appropriate. Joining me on the Task Force were Gary Mitchell, Bill Bellis, and John Ivey of the Colorado Section, Executive Director Bill Knight, and incoming Executive Director Bill Sjok. National Treasurers Bob Colpitts and Kel Buchanan served as the Executive Committee liaisons. Karen Spaulding was not officially a member of the Task Force, but she has been a big help.

The new location is not too far from the current location. It will be easier to get to as it is close to both a freeway and to the hotel where the Executive Committee stays when they meet in Denver. Most members, even those in the Denver area, never visit headquarters. Nor is there any particular reason that they should. But the effective operation of AIPG depends a great deal on the staff and their having a good environment in which to work and the space needed to do their jobs. The new office location will provide that environment and will save money as well.

Postdoctoral Positions

The Geologic Division of the U.S. Geological Survey is conducting a national competition to find outstanding scientists, who have recently completed doctorate-level research, to fill contractual positions as Guest Research Associates in the following areas of research: Sediment Transport Modeling, Coastal and Near-Shore Erosion; Marine Environmental Geochemistry, Integrated Information Management, Interdisciplinary-Statistical Analysis; Economics; Carbon Sequestration; Basin History; Economic Geography; Hydrocarbon Generation Modeling; Clastic Sequence Stratigraphy; Geology Impacts on Human Health; Organic Geochemistry/Biogeochemistry; Multi-Spectral Remote Sensing of Earth Surface Materials; Seismic Source Parameters; and Instrumentation and Data Analysis of Building for Seismic Engineering. Possible locations: Denver, CO; Pasadena, CA; Woods Hole, MA; Reston, VA; Newark, DE; and St. Petersburg, FL.

Applicants should be outstanding scientists who have recently completed doctoral-level research and have a record of demonstrated ability or outstanding potential for basic and applied research. Compensation will be in fixed weekly stipends for the geographic area in which they work. Approximate stipend amounts are as follows: Reston, VA, $1,013.00; Denver, CO, $1,026.00; Woods Hole, MA, Pasadena, CA, Newark, DE, and St. Petersburg, FL $995.00. Awardees are offered a services contract initially for 12 months and may be extended for 1-year upon availability of funds and management recommendation. Application Deadline: July 16, 1999.

For more information about the program and the application materials required, complete details are provided in the Guest Research Associateship Program Announcement which is available on the web at http://geology.usgs.gov/postdoc/ or you may call (703) 648-6630 to request a copy.

The U.S. Geological Survey is an equal opportunity employer. Qualified applicants will receive consideration without regard to race, creed, color, age, sex, national origin, political preference, labor-organization affiliation or non-affiliation, marital status, or non-disqualifying handicap.
Conflicts of Interest: Personal Business on Company Time and Supplies

Fred Fox, CGP-01273, called my attention to an article in Business Start-ups for March 1999 relating to “starting your own business from your cube...without getting caught.” The article specifically addressed those who start an independent business basically run out of an individual’s home and generally on their own time but who keep their “day” jobs while the independent business develops. The article explores how much, if any, of the work of the independent business could be done during the day, as some of it inevitably must be, such as the individual’s need to make some phone calls, fax documents, etc. during normal working hours. I should note that the article dealt with independent businesses that did not directly compete with the employer’s business.

Fox was appalled that anyone could ethically consider working on something besides your employer’s business on your employer’s time and was particularly shocked by the opinion attributed (but not inside quotation marks) to a professor of business ethics that “there are no concrete rules when it comes to the ethical implications of cheating.” The professor was quoted as saying “It depends on the implicit contract [you have with your boss]. I think the main question is, ‘Are you doing your job?’ Are you doing it in a way the company expects you to do it? You’re probably at risk if you deviate too far from that.” “I’m not sure whether stealing time is any different than stealing something from the warehouse.” “On the other hand, my impression is that most people are paid for getting the job done, not for sitting on their butts.”

Helping oneself to the “odd” item of office supplies: pens, pencils, post-it pads, paper pads, a ream of copy paper, etc. are not uncommon. Making personal photocopies on the office copier—most of us don’t have one at home—or using the office fax machine, or making personal phone calls on company time are examples of common activities that take away from your employer’s supplies and resources. There are frequent articles on employer controls over e-mail systems and the shock expressed by employees who view such monitoring by employers as “Big Brother” intrusions on privacy.

As professionals, we are paid salaries and are expected to not only give 40 hours a week, but whatever it takes. Sometimes we print company reports, etc. on our home printers. We make and take company calls on our own time. Sometimes we use personally purchased software for company projects. We get the job done. Is there a reasonable quid pro quo? Share your thoughts and experiences.

When is work on papers and presentations acceptable on company time? Professors are subject to the “publish or perish” pressure. Most corporate employees are not required to publish but many do anyway. Work for professional societies is also an area that can benefit both individual and employer. How much can you do on company time? Is there a set policy where you work?

Assume that an individual writes a series of voluntary (not specifically required by the job) papers on company time with company colleagues as co-authors. Company support personnel may contribute drafting and other services that are charged to business development. Such papers benefit the individual authors and company by enhancing their reputations for expertise. Can that individual later write a book for which the individual receives royalties which is based in part on the earlier papers without naming the co-authors of the papers as book co-authors or compensating either the company or the co-authors in some way? Assume that proper references to the earlier publications are given. Note, the same situation applies to professors supervising theses whose results are used as part of an overall synthesis publication by the professor.

The foregoing situations all involve an inherent possible conflict between personal benefit, employer benefit, and colleague benefit. The conflict may only develop after one or more of the individuals involved leave the employer. Common situations are given as examples. What are your experiences? Is an employer being duplicitous in expecting you to work on your own time without giving you a little slack to do a bit of personal work on theirs? Is what is acceptable behavior changing? Do you share Fox’s shock at the ethics professor’s remarks?

Ethical Treatment of Students (Columns 38 & 40, Jan. & March ‘99)

Is teaching priority one for faculty?: I sent a letter to all student members asking them to contribute their thoughts and experiences, particularly those related to adding a statement regarding the ethical treatment of students to the Code of Ethics. I received a reply from one student, who asked not to be named. He felt that the statement in the AGI Geoscience Ethics Guidelines was good. He went on to lament the fact that teaching is not the number one priority for faculty, particularly junior faculty. There are the competing priorities of publish or perish in order to compete on the tenure track along with various other administrative and community service duties that professors are expected to fulfill. This whole issue is being examined in Colorado by the new head of the state department of education. How many student contact hours per week should a faculty member have—12, 15, 18? What sorts of contact counts? For example, does the time involved in advising an AIPG student chapter count? Does a professor who has taught the same class several times before need as much time to prepare lecture notes as he did the first time? Should the difference be taken into account? As the student who raised the issue noted, how does a university maintain a reputation for both teaching excellence and research excellence? These are not new issues. Nevertheless, they are still good questions. Even those of us no longer in academia have to juggle competing priorities. How do you do the juggle? How do you deal with the situation where that boss says that two or more different projects all have number one priority? Contribute your thoughts.

Job Interviews: Margaret “Margie” H. Kloska, SA-44, and Mark Olson of the University of Wyoming and I had an interesting discussion at the recent AAPG meeting. Several Wyoming students had been flown to interviews with oil companies. The students had been told that jobs were available for which they were being considered. Only during or after the trip...
did the students learn that there were no jobs, or that they had been filled. Because they had gone expecting that jobs existed, they felt deceived. One company was a notable exception; it let the students know there were no jobs but told them it wanted to interview them and have them see the company because the company hoped to be able to offer positions in the future. The students' view of this company sharply contrasted with their views of the other companies.

Kloska and Olson wanted my views on the companies' ethical conduct. I had little to add. The difference between honesty and dishonesty had already been noted. Instead I offered a couple of thoughts. The first involves reputation. Our professional reputations begin to develop when we are students. Our fellow students are our first, and in some ways will be our longest lasting professional network. One's reputation for diligence or just getting by, for honesty, integrity, dependability, etc. starts in school. And our reputations follow us, known or unknown for the rest of our careers. Because reputation is external, is what other people think of us in other offices, in other cities, etc., it is hard to control. The following observation is very pertinent to reputation, "What matters is not what is true or false but, exclusively, what is believed" (Generaloberst Sixt van Arnim—report to Oberkommando der Wehrmacht, 1943 quoted by B.F. Dickerson, III, Mining Engineering, February 1984, p. 181.) Some Wyoming students gained some ideas about the reputations of some companies. I hope the companies are happy with the reputations they earned.

My second observation is that any interviewing opportunity is a chance to practice interviewing, to practice marketing oneself professionally, and to learn more about the various opportunities that exist. What is attractive about the firm one is interviewing with? How does one opportunity compare with another? How does a opportunity fit in with one's individual personality and goals? If a company is willing to interview you, go regardless of whether there is a job. This may seem like a mercenary approach, but no one else will look out for you as well as you. As George D. Klein, CPG-01487, observed in his article on starting a consultancy in the April 1999 TPG, marketing is no something adequately taught to geology students. If you want a job, you need to sell yourself. And as with all other skills, there's nothing like practice.

Comments from students on these observations are particularly welcomed.

Comments on Column 40, March 1999

Martin J. Andrejko, CPG-08512, sent the following comments: “Your column in the March 1999 TPG brings up several interesting issues:

**Issue 1 [Is the Truth an Absolute?]**

“The example by Fred Fox of the knife-wielding thug asking about the whereabouts of the intended victim brings up an interesting dilemma. It is clearly and absolutely unethical to lie. However, it is also clearly and absolutely unethical to allow someone to die through one’s actions or inactions. In many cases, you are confronted with more than one ethical issue at a time while having to make a decision. Dr. Ronald Bucknam, who runs the Professional Engineering Practice Liaison Program at the University of Washington, Seattle, offers the following steps to help arrive at the most ethical decision:

1. Define the ethical problem when it arises.
2. Formulate alternative solutions. Avoid “first impulse” solutions without formulating alternative solutions.
3. Evaluate the alternatives. Are they ethical? Who benefits? How would you feel if the roles or circumstances were reversed?
4. Seek additional assistance. Look to previous cases, the experiences of peers or even personal experience.
5. Choose the best ethical alternative. That means, choose the one that does the most good for all the right reasons.
6. Implement the best alternative. No initiative leads to no results.
7. Monitor and assess the outcome. Commit to continuous improvement. Always look at how your decision-making process can be improved the next time.

“By using the above seven steps it is clear that the most ethical alternative is to lie to the thug thereby protecting the potential victim. Step 5 is critical in this decision process. You choose the best ethical alternative.

**Issue 2 [Scope of Professional Ethics]**

“Your discussion of the ASA ethical code was interesting. The fact that there was an opposing comment to the inclusion of homosexuals in sentence #5 can be used to illustrate the difference between morals and ethics. Ethics are an absolute through time and space, but morals change through time and space. There is nothing unethical about being homosexual, but depending on the society or part of society it can be considered immoral. Chuck Colson has a quote, ‘Morality describes what is; ethics describes what ought to be.’ Rather ironic considering the source but I think it fairly accurately sums it up.

**Issue 3 [Scope of Professional Ethics]**

“I feel that the last sentence of #5 of the ASA code should not be included because discrimination of that type should be left to the courts to decide. What if AIPG disciplines someone for discrimination and parallel to AIPG, the courts decide that there was no discrimination? This would potentially expose AIPG to a defamation suit. However, if the courts do find someone guilty of discrimination relating to professional activities, then AIPG should follow with some sort of disciplinary action.

**Issue 4 [Scope of Professional Ethics]**

“I do not believe that we should be delving beyond professional behavior and getting into one's private life such as non-payment of child support. This past year when I received my renewal application for Delaware registration they requested I provide my social security number because of a new State Law that requires licensing agencies to deny renewal to anyone who has not kept current on their child support payments. While I think that ‘deadbeat dads’ should be made to pay, I have a problem with providing the licensing agency with personal information that really has nothing to do with my licensure. Due to that request and the fact that at this time and for the foreseeable future I have no need for a Delaware registration, I did not renew my license. Now if I truly needed the registration, I would have had to think hard about my position.

**Issue 5 [Scope of Professional Ethics]**

“With regards to AIPG’s code of ethics, we should stay within the scope of professional activities. As long as you have not committed a felony, I don’t think your personal life should enter into it. Let’s say there is a married PG who is President of a consulting firm and that he has an affair with an intern. Say this sounds familiar. A professional employer/employee relationship exists between these two individuals. However, if there is no evidence of sexual harassment and both parties are consenting adults there is nothing that AIPG should do in this case.
Now if there was court-proven sexual harassment on the part of the PG then AIPG should institute disciplinary proceedings.

“An unethical action on a professional level and this action is unrelated to their performance of geological services. Should they be disciplined? Again, if it is a felony then AIPG should probably act. Anything less than a felony should not be looked at. Keep in mind that some traffic violations are considered misdemeanors. While driving recklessly does protect ‘the public health, safety, and welfare,’ how far should AIPG take this issue?”

Andrekjo makes some excellent points. The 7-step process for examining issues is excellent advice. In considering the various scope of practice questions involving issues like child-support, homosexual discrimination, sexual harassment, and tax evasion, the first thing to recognize is that we, as geologists, are not expert in these areas. Some of us who are managers know far more about the subjects than we perhaps would like. And clearly, some of them fall within the scope of professional practice in that relations among people at work are part of the professional environment. Nevertheless, AIPG is not the place to look for initial redress on these issues. We lack the required expertise. Subsequent to a finding by a qualified body, it may be appropriate for AIPG to consider particular cases.

Andrekjo’s Issue 4 relating to the suspension of one’s professional license for non-payment of child support is particularly troubling. As Andrekjo notes, giving up his Delaware license was not a problem for him. Others may have no problem providing Delaware, or another state with similar requirements, with the requested information, and thus do not face the problem of giving up an needed license. Whether to retain a license is a personal decision. But it also can be an issue for AIPG. As an Institute, we encourage compliance with the law, not the reverse. Given this position, are we thereby obliged to follow a state’s lead of license suspension with certification suspension? Note that neither the state licensing board nor AIPG is asked to opine on the issues of the fairness of the child-support payments in question. That is handled by the appropriate court.

On the one hand, suspending one’s right to practice professionally is rather like the abandoned practice of throwing debtors in prison. On the other, facing up to one’s legal obligations is part of acting in a generally ethical manner. More thoughts on these issues are welcome.

**Computer Virus Transmission**

Last month’s column contained some advice on laptop security. This month’s computer problem relates to a virus (but not the “Melissa” virus, which received a great deal of publicity at the end of March and early April, although the technical issue is the same). An AIPG member with whom I correspond fairly regularly via e-mail got hit with a virus problem. Apparently, a virus came into his system via his Internet service provider. This virus is the kind that is included in the macros in an attached file. The Visual Basic for Applications macro capability of Microsoft’s office software allows inclusion of a powerful programming language in Word documents, Excel spreadsheets, and other programs.1 It is the macros in files attached to e-mail, not the text of an e-mail message itself that spread a virus, which is a computer program. The particular virus involved was able to read all the e-mail addresses in the computer and created and sent messages to all those addresses, thereby attempting to replicate and spread itself.

I’m including this discussion because the reaction of this member contrasts with the reaction I’ve encountered in others. As I mentioned, the virus came to me from what I consider a “trusted source,” someone whose e-mail attachments I would trust. Fortunately, I have an antivirus program working at all times in the background, I had fairly recently updated my virus definitions, and my program caught the virus as it came into the machine. What pleased me about this specific incident is that at the same time the message came in with the virus, I received a message from the member warning me about the virus and advising how to deal with the infection, if it had occurred. This contrasts with the actions of others, who didn’t seem too bothered when I’d told them that I’d picked up a virus on a file or diskette they’d sent me. This lack-of-concern attitude creates a real negative impact on my view of these individuals professionalism.

The most common source of virus alarms I’ve found is from floppy disks getting passed around the office via “sneakerware.” Floppies are a handy way to take files from the office to home and back again. The problem is that when a floppy gets infected, you have to remove the virus from every computer the disk has been in and every floppy disk that has been in every computer since the infection occurred. If a home computer has several active users, such as kids doing homework, this requires scanning a lot of disks. Scanning all those disks seems like a real bother—and it is, but it is absolutely necessary if the problem is going to be solved.

The general solution to computer virus problems is to run antivirus software on every computer you use all the time. (Okay, there are certain, limited times when you want to disable the virus scanning program. But these times are few and specific.) And, you must update your virus definitions regularly, once a month! The major antivirus programs all work well and provide regular virus definition updates on their web sites according to the computer magazines I read. So use one, and update it.

The foregoing discussion is a professional practice issue rather than an ethical one. But general professional practices are part of this column. And while indifference to spreading a virus is not specifically addressed in the AIPG Code of Ethics, it certainly detracts from one’s professional credibility. And if indifference becomes either intentional action or failure to act when action is warranted, an ethical issue could arise. Feel free to contribute your thoughts on this and related topics.

**Quality Specimens Needed for Headquarters**

Top quality specimens of minerals, rocks, and fossils are needed for a new display case for the reception area of the AIPG national office. Specimens should be hand specimen size. Members having specimens they’d like to donate should contact Kel Buchanan, CPG-06058, who is heading up this effort. Donors will be recognized. The national office will be moving in June and we would like to have a nice display in the reception area. Kel can be reached at (775) 786-4515 or e-mail: summitcrk@aol.com.

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1. Visual Basic for Applications (VBA), Word, and Excel are trademarks of Microsoft Corporation. Many of us use Microsoft programs, and the macro capability can be a real help. Other software programs have similar capabilities. The point is not to pick on Microsoft programs, it is simply to point out a common source of problems—macros in any file.
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Jun. 3-5. ICADD-3: from Theory to Practice (3rd International Conference on Analysis of Discontinuous Deformation), Marriott's Mountain Resort, Vail, Colorado. Sponsored by American Rock Mechanics Association and the ARMA Foundation. Contact: Professor Bernard Amadei, University of Colorado, Dept. of Civil Engineering, CB 428, Boulder, CO 80309-0428, Ph.: (303) 492-7734, amadei@spot.colorado.edu, www.tmn.com/~arma


Aug. 29-31. 1999 Mid Continent AAPG Convention, Geoscience for the 21st Century, Wichita, KS. There will be at least 42 technical papers and 25-26 poster sessions on a wide range of subjects. Contact: AAPG, PO. Box 979, Tulsa, OK 74101, Ph.: (918) 584-2555.


Sep. 26-30. The Society for Organic Petrology Annual Meeting, Salt Lake City, UT. Call for papers deadline June 1, 1999. Contact: Jeff Quick, UT Geological Survey, 1594 W. North Temple, #3110, Salt Lake City, UT 84114, Ph.: (801) 537-3372, e-mail: <nrugs.jquick@state.ut.us>, web site: http://www.isop.org.

Oct. 2. American Association of Professional Landmen - WI & NRI Calculation Workshop, Fort Worth, TX. Contact: AAPL, 4100 Fossil Creek Blvd., Fort Worth, TX 76137, Ph.: (817) 847-7700, e-mail: aapl@landman.org, www.landman.org.

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October 4-8, 1999
Anchorage, Alaska
October 11-15, 2000
Milwaukee, Wisconsin

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MAY 1999 • The Professional Geologist 31
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**EDUCATION:** 36 semester or 54 quarter hours in geological sciences* with a baccalaureate or higher degree; certified copy of official transcripts must be sent by each college or university

**EXPERIENCE:** 8 years beyond bachelor's degree, or 7 years beyond master's degree, or 5 years beyond doctorate

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## STUDENT

**EDUCATION:** Currently enrolled in a geological science* degree program

**EXPERIENCE:** None required

**SPONSOR:** 1 letter from geological science faculty member

**CERTIFICATION/REGISTRATION:** None required

**SCREENING:** Headquarters can approve

**APPLICATION FEE:** $5

**ANNUAL DUES:** $15

## ASSOCIATE

**EDUCATION:** None required

**EXPERIENCE:** None required

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**APPLICATION FEE:** $5

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*As defined by the American Geological Institute, a geological science is any of the subdisciplinary specialties that are part of the science of geology, e.g., geophysics, geochemistry, paleontology, petrology, etc.

Note to those who received their degrees from non-U.S./Canadian universities: If you received a degree from a university or college outside the U.S. or Canada, and the school is unable to provide an acceptable transcript, you must submit a copy of your diploma and a list of courses taken. The Screening Committee may ask you to provide additional information or an equivalency evaluation, at your expense.
Applicants for certification must meet AIPG’s standards as set forth in its Bylaws on education, experience, competence, and personal integrity. If any Member or board has any factual information as to any applicant’s qualifications in regard to these standards, whether that information might be positive or negative, please mail that information to Headquarters within thirty (30) days. This information will be circulated only so far as necessary to process and make decisions on the applications. Negative information regarding an applicant’s qualifications must be specific and supportable; persons who provide information that leads to an application’s rejection may be called as a witness in any resulting appeal action.

**Applicants for Certified Professional Geologist**

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5100 Cambridge Way, Anchorage AK 99503.
Sponsors: Brad Authier, Brad Chastain, Murray Einarsen.

**MO-Cockrum, Deborah J.**
11427 Nara Ct., Bridgeton MO 63044.
Sponsors: John Howard, Jeff Goedtel, Dan Greenwood.

**TX-Dodd, Keith P. Jr.**
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Sponsors: Doug Romer, Stuart Williams, Frank Sweet.

**OH-Dominic, Kathryn L.**
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Sponsors: Joseph Schultheis, David Jorgenson, Steve Selegman.

**CO-Janzen, John H.**
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Sponsors: Ralph Chapuis, Tom Fisk, Elmo Brown.

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6714 Lower Macunie Rd. #E10, Trelxertown PA 18087.
Sponsors: Peter DeMicco, Brian Blum, Vincent Uhl.

**Applicant for Registered Member**

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1305 Thurston Rd., Dickerson MD 20842.
Sponsors: David Wiegand, Ron Pyles.

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Sponsors: Dennis Anderson, Kevin Cornwall.

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**CT-Griswold, Julia P.**
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**OH-Cunningham, Richard M. CPG-10401**
565 N. Briarcliff Dr., Canfield OH 44406, (330) 856-8800

**VA-Deni, Mark J. CPG-10407**
2520 Grandview St., Bluefield VA 24701, (540) 322-5407

**OH-Mullen, Kimberly A. CPG-10403**
6168 Silverglade Dr., Columbus OH 43230, (614) 855-7331

**OH-Rochotte, Mary L. CPG-10397**
152 E. Allen St., Lancaster OH 43230, (740) 373-4030

**IA-Whipple, Todd D. CPG-10400**
504 Lafayette, Story City IA 50248, (515) 233-0000

**New Associate**

**NJ-Galliano, Lawrence C. AS-0005**
1401 Delaware Ave., Toms River NJ 08753, (908) 754-1700

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