1990 ANNUAL MEETING, LONG BEACH, CA

Long Beach, California. General Chairman Steven M. Testa and the California Section look forward to welcoming you here in October.
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FEATURE

4 AIPG's 1990 ANNUAL MEETING

CONTENTS

12 President's Message
14 Executive Director's Column
15 From Washington
17 Executive Director's Itinerary
18 Members in the News
19 New Applicants and New Members

The purpose of AIPG is to strengthen the geological sciences as a profession with all reasonable actions, to establish professional qualifications, to certify those qualifications to the public, and to evaluate continuously the ethical conduct of its members. Further, the Institute establishes ethical standards to protect the public and geological sciences from nonprofessional practices, monitors governmental and other activities affecting the geological sciences, and communicates with the public.

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AIPG 27th Anniversary Meeting
1990 Annual Meeting

Long Beach, California - October 9-13

The theme of this year's meeting is "Future Trends in the Decade of the 90's." It's the beginning of the last decade of the 20th century and we hope to identify and explore the trends of the future as they relate to our profession.

Long Beach: The Golden Shore

The area now known as Long Beach was first discovered on October 8, 1542, by the Portuguese navigator Juan Rodriguez Cabrillo, Sailing for Spain in two ships, El Salvador and La Vitoria, Cabrillo's mission was to check reports of a mysterious kingdom with seven cities, and to seek a strait from the Pacific to the Atlantic. The strait did not exist; however, noticing fires set on shore by the peaceful Gabriella Indians, a landing was initiated. Unfortunately, Cabrillo died shortly thereafter and the voyage slipped into obscurity. As for the Gabriella Indians, their doomsday clock began ticking. In only 225 years, the settlement of their area brought disease and cultural annihilation.

In the late 1700's and early 1800's, the Spanish instituted a system of large land grants to manage their newly established colony. Six large ranchos were formed: Los Coyotes, Las Basas, Palo Alto, Santa Gertrude, Las Sierritos, and Los Alamitos. The last two, "Ranch of the Little Hills" and "Ranch of the Little Cottonwoods," were the land that would eventually become Long Beach and surrounding cities. At this time Los Alamitos alone consisted of 28,000 acres of land plus livestock inventory that went for $300! From the mid-1800's to the turn of the century, the ranchos were utilized for agricultural purposes primarily.

California has a rich history of oil and gas exploration and exploitation dating back to 1876, the first year of commercial production. On the evening of June 23, 1921, Shell Oil Alamitos No. 1 well blasted a geyser of crude 80 feet into the air, taking four days before it could be capped. By 1925, hundreds of derricks were erected and the city was rich and could finance its own future. Signal Hill, once a choice residential area and truck garden patch, turned into an oil bonanza.

Long Beach has had many faces in its colorful century-plus history. Named for its long, wide beaches, it soon gained fame as a popular seaside resort, site of the giant Pike Amusement Park and home to silent film stars of the Balboa Studios. It later grew into a major naval center and the West Coast’s largest port. Since its massive multi-billion dollar redevelopment began in 1975, Long Beach has evolved into Southern California’s most diverse waterfront meeting and tourism destination. It has modernized its downtown into a dazzling complex of hotels and highrises, yet the original charm of the seaside village is retained in its small town neighborhoods.

Although Long Beach is excited about its own attractions, it is also proud to be so close to the best of the rest of Southern California. Long Beach is the central way to see it all...Knott’s Berry Farm, Movieland Wax Museum, Universal Studios Tours, Disneyland, Hollywood, Los Angeles...all are within 25-45 minutes from Long Beach.

Registration

Advance Registration

Advance registration is available and recommended for the Twenty-Seventh Annual Meeting. Advance registration can be accomplished by completing the Pre-registration Form included in this issue of TPG.

On-Site Early Bird Registration

If you arrive in Long Beach early, you can register on Tuesday, October 9, between the hours of 3:00 p.m. and 5:00 p.m. The registration area will be located in the Seaview Foyer on the lower level of the Hyatt Regency Hotel, next to the escalators.

Registration Hours

Regular on-site registration for members, spouses, and guests will begin Wednesday, October 10, and continue through Friday, starting at 8:00 a.m. in the Seaview Foyer on the lower level of the Hyatt Regency. Registration closes at 5:00 p.m. on Wednesday and Thursday and noon on Friday.
The AIPG 27th Annual Meeting will provide the opportunity to learn and discuss the challenging, complex, and timely issues surrounding our profession as we move into the last decade of the 20th century. The workshops and technical program are aimed at these issues. In order for you to plan your trip early, the tentative program schedule is outlined below.

**Tuesday, October 9, 1990:**
- Registration
- Early Bird Ice Breaker

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**Wednesday, October 10, 1990:**
- Hospitality Room
- Registration
- Spouse Tour No. 1
- 1990 Advisory Board Meeting
- Exhibits
- Coffee Break
- 1991 Advisory Board Meeting
- 1990 Executive Committee Lunch
- 1990 Executive Committee Meeting
- Technical Writing Workshop
- Ice Breaker

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**Thursday, October 11, 1990:**
- Hospitality Room
- 1991 Executive Committee Breakfast
- Registration
- Spouse Tour No. 2
- Exhibits
- Technical Session
- Lunch with Speaker
- Cocktails
- Awards Banquet

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**Friday, October 12, 1990:**
- Hospitality Room
- Past Presidents Breakfast
- Registration
- Spouse Tour No. 3
- Business Meeting
- Market Research Workshop
- White's Island Field Trip

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**Saturday, October 13, 1990:**
- Catalina Island Field Trip

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### Technical Sessions

The topics to be addressed by leading experts in their respective fields as part of the technical program on Thursday have been divided into three main sessions: California geology, petroleum geology, and environmental geology. The sessions will serve to introduce the participants to certain geologic issues affecting our profession in California which, in turn, sets precedence in how these issues are dealt with nationwide. National and global issues dealing with future trends in the petroleum and environmental fields will also be focused upon. The program outline is provided below.

- **California Geology**
  - 9:00 - 9:30: The State of California Tectonics
  - 9:30 - 10:00: October 1989 Loma Prieta Earthquake
  - 10:00 - 10:30: Southern California Seismicity and Tectonics
  - 10:30 - 11:00: Liability Minimization
  - 11:00 - 11:30: Economic Geology
  - 11:30 - 12:00: Water Resources

- **Petroleum Geology**
  - 1:30 - 2:00: National/Global Petroleum Trends
  - 2:00 - 2:30: California Petroleum Conditions
  - 2:30 - 3:00: Remediation of Huntington Beach/
  - 3:00 - 3:30: Newport Offshore Oil Spill
  - 3:30 - 4:00: Oil Field Subsidence - Long Beach Update

- **Environmental Geology**
  - 3:30 - 4:00: Forensic Geochemistry
  - 4:00 - 4:30: Oil Field Remediation
  - 4:30 - 5:00: Petroleum Facility Ground-water Remediation

### Continuing Education/Workshops

**Limited seating; please enroll early to assure a place.**

#### Technical Writing As A Process Within A System

Cost: $40 per attendee

This course will be presented as a workshop at the Annual Meeting. The course is unique because, in addition to the formal aspects of technical writing, it stresses the relationship between writing and information systems. Special topics to be covered include enhancing the office writing environment, effective use of illustrations, preparation of material for oral presentations, and special consideration of writing technical material for executives and for the layman.

The course will be taught by Edward B. Nuhfer, CPG 2808, Director of the Reclamation Program at University of Wisconsin - Platteville, author of over 50 geological publications and former AIPG Editor, and by Mary P. Dalles of the University of Wisconsin's Department of English. Ms. Dalles is co-author of *A Geologic Field Guide to the Apostle Islands*, and her specialties include poetry, literary criticism, and instruction in composition. Ms. Dalles served as an AIPG associate editor for two years.

Attendees will receive an 80-page bound set of notes, list of references, plus several handouts.

#### Market Research for the Consulting Geologist

Cost: $25 per attendee

This course will be presented by John B. Gustavson, CPG 2637, of Gustavson Associates, Inc., Boulder, Colorado. The course, which is an updated version of his much-demanded previous courses, will include sources of funding, topics on litigation, expert witness and ethics, as well as an update on opportunities in exploration of Eastern Europe.
Field Trips

Two field excursions are planned for the 1990 national convention. An afternoon field trip will be conducted to White’s Island, one of the oil-producing islands in Long Beach Harbor and the other is an all-day trip to Catalina Island (Island of Romance) on Saturday. Should you desire to stay overnight on the island, arrangements can be made to stay at one of the accommodations at Avalon Bay. You may then return to the mainland by commercial ferry on Sunday. Should you have a tendency toward motion sickness, mareazine or dramamine may make a more pleasant boat trip.

The White’s Island trip will be led by Don Clark of the Long Beach Department of Oil Properties. Don will provide first-hand knowledge of offshore operations in Long Beach Harbor, the history of the island, as well as production history. Don has led trips to the island on several occasions and we are assured of an informed and up-to-date account of activities.

Catalina Island, at one time totally owned by the Wrigleys of chewing gum fame, is a desert island used for recreation, mineral exploration, cattle and buffalo grazing, and research. University of Southern California will be dropping us off at the isthmus in the morning. We will be picked up by a bus and transported overland to several excellent outcrops, the airport, the ranch, and Avalon Bay. The trip will be led by James E. Slosson, CPG 1109, of Slosson and Associates. Jim and company mapped the island in the early 1970’s, modifying the map prepared in 1940 by Edgar H. Bailey of the USGS. Work continues on and around the island by USC, UCLA, USNM, and others. The island is basically comprised of Mesozoic metamorphic rock (blue schists and garnet amphibolites), and Tertiary volcanics with some of Tertiary limestone in the Little Harbor area. There are also many landslides, some terrace deposits, and alluvium of Quaternary age to be seen. •
Exhibits

As part of the overall program, exhibitors will include various equipment suppliers, analytical laboratories, and consultants. In addition, several special exhibits and displays will be added to the program for your viewing pleasure.

Spouse Activities

We have scheduled three fun-filled days of activities. On Wednesday we will drive down the scenic Coast Highway to the Mission at San Juan Capistrano for a glimpse of Old California (see Tour No. 1). Thursday we will head for the stars in Beverly Hills and a tour of Universal Studios (see Tour No. 2). Friday we will tour Long Beach and visit its many attractions including one of the old "ranchos" located in the area (see Tour No. 3).

Tour No. 1:

Wednesday, October 10, at 8:30 a.m. we will board a comfortable motor coach for a drive down the beautiful Coast Highway to the old Mission at San Juan Capistrano. When we reach the Mission we will tour the grounds, including Father Serra's chapel and ongoing archaeological digs. We will also visit the new Mission Church, the neo-classical library designed by Michael Taylor, and walk the few blocks to the picturesque El Adobe Restaurant (one of Richard Nixon's favorites) for a delicious Mexican lunch. Even the restaurant building is full of early California history which is presented in picture form on the walls of the adjoining bar.

On our return trip up the coast we will stop in Laguna Beach, a quaint beach town/artists' colony, which is famous for its summer Pageant of the Masters and accompanying art fairs. Laguna Beach is full of cute little shops, restaurants, and art galleries, not to mention the beautiful views from the beach, and is a lot of fun to visit. Depending on our travel time, we will be on our own for a little while to do as we please in Laguna Beach, then reboard the coach for the drive back to Long Beach, arriving about 4:30 p.m.

Ranchos Los Alamitos

Tour No. 2:

On Thursday, October 11, at 8:30, we will board our motor coach and head for the stars of Beverly Hills, Rodeo Drive, and a tour of Universal Studios. Our customized tour will include a stop at the famous Grumman's Chinese Theatre and "Walk of the Stars," Rodeo Drive to try to spot a star, a trip through Beverly Hills to view some of the stars' homes, and our final destination of Universal Studios. The tour is really interesting, a lot of fun, and is something you just have to see to believe. It includes a comfortable tram ride through the back lot where many movies and television shows are filmed, including "Jaws," "Back to the Future," and "Murder, She Wrote." We also will visit a sound stage and see how the movies are really put together and how the special effects are added. The tram will let us off at the Visitors' Center where we will be on our own for lunch at any of the fun restaurants available. Then you can shop or watch all the shows that are offered, including a western stunt show, a famous animals act, and several others - all of them very entertaining. We will reboard the coach and return to the hotel at 4:30 p.m.

Tour No. 3:

On Friday, October 12, at 7:30, we will tour the City of Long Beach and visit one of the old ranchos, the Art Museum, shop on Second Street, and have a lot of fun. This tour will be only a half day, returning to the hotel by 12:00 p.m., in time to join the field trip to White's Island.
Special Events

Icebreakers

For those of you who arrive on Tuesday, we will have an "Early Bird" Icebreaker at 6:00 p.m.

There will be a complimentary Icebreaker on Wednesday evening at 5:30 p.m.

Awards Banquet

On Thursday, October 11, the annual awards ceremony and dinner will be held. It is on this evening that AIPG honors its members who deserve special recognition. Several awards will be presented, including the Ben H. Parker Memorial Medal for outstanding services to the profession, the Martin Van Couverying Memorial Award for outstanding contributions to AIPG, the Public Service Award for outstanding contributions to the public good, and Honorary Membership for an exemplary record of distinguished service to the profession and to the Institute. In addition, the President of the American Institute of Professional Geologists may award Certificates of Merit to individuals who, in the President's opinion, through dedicated and meritorious service, have made an outstanding contribution to the Institute.

On Your Own Activities

The Queen Mary and Spruce Goose are visible from the hotel just beyond the marina shopping and restaurant area. Guided or self-guided tours are available for the Queen Mary.

Cabrillo Marine Museum in San Pedro houses displays of all marine life typical to Southern California and offers a touch-tank, 34 aquariums, slide shows, and much more.

California Museum of Science and Industry, Los Angeles, features over 320 interactive displays, including an earthquake simulator and aerospace exhibits.

La Brea Tar Pits and George C. Page Museum of La Brea Discoveries are world famous features in Los Angeles. The museum houses fossils recovered from the renowned La Brea Tar Pits. Several fenced pits may be viewed throughout Hancock Park, including one active excavation.

Huntington Library, Art Collections and Botanical Gardens, San Marino (Pasadena), contains rare books and manuscripts, the most comprehensive collection 18th century British and European paintings outside of London, including Gainsborough's "Blue Boy," and over 14,000 varieties of plants, shrubs, and trees. This museum and garden is absolutely outstanding.

J. Paul Getty Museum, Malibu, houses an extensive collection of Greek and Roman antiquities, illuminated manuscripts, and decorative arts. The building itself is a recreation of a first-century AD Roman villa, with interior and exterior gardens.

Natural History Museum of Los Angeles County houses exhibits devoted to dinosaurs, gems and minerals, animal life, pre-Columbian artifacts, and southwestern history.

The Farmer's Market, Los Angeles is a sprawling and unique marketplace boasting 160 individually owned shops and stores, plus numerous dining patios.

Naples, California

Griffith Park and Observatory features a 500-seat planetarium theatre, the Hall of Science, and a twin-refracting telescope.

Olvera Street, one of the oldest streets in Los Angeles, is a Mexican-style marketplace.

Disneyland and Knott's Berry Farm are about 30 minutes from Long Beach via freeway. Disneyland speaks for itself and should be allowed at least one full day, if not two. Knott's Berry Farm is also well publicized and requires a full day to really enjoy.

If you want to venture farther, San Diego with all of its attractions is about a 2-1/2 hour drive south from Long Beach, but it's a very scenic trip.
Annual Meeting Hotel

The Annual Meeting hotel is the Hyatt Regency Long Beach located on the harbor across from the Queen Mary and Spruce Goose. It will be the location of all functions. The hotel provides a swimming pool, whirlpool, and lagoon. A limited number of rooms have been blocked for our meeting at a rate of $92.00 for a full or double room. To ensure a room at the Hyatt Regency your reservations should be made early. You can call the Hyatt Regency Long Beach directly at (213) 491-1234 or (800) 228-9000 and refer to the American Institute of Professional Geologists conference. A hotel reservation form is also included in this issue of TPG for your convenience.

![Queen Mary and Spruce Goose](image)

Transportation

Air Transportation

Arrangements have been made for American Airlines to be the official airline of this conference. American Airlines will provide good discounted fares to the Los Angeles area airports: Long Beach, Los Angeles International (LAX), Burbank, and Ontario. These fares are not available to the general public and may have restrictions and limited seating, so please make your reservations early.

To make your airline reservations for this conference, call American Airlines Meeting Services' toll-free number 1-800-433-1790 and refer to STAR FILE NO. 010076. The digit after the 1 is O as in October.

Long Beach has a compact but efficient airport and is serviced by American Airlines and most of the other major airlines. Long Beach Airport is approximately seven miles from the hotel. Los Angeles International Airport is about 30 miles away with shuttle bus service available for a reasonable fee.

Ground Transportation

The Hyatt Regency Long Beach provides free shuttle bus service to and from the Long Beach Airport for registered guests. Super Shuttle is available from LAX to the hotel for a reasonable fee. Taxi service and rental cars, of course, are also available.
Pre-Registration Form  
27th Annual Meeting  
American Institute of Professional Geologists  
October 9-13, 1990  
Hyatt Regency Long Beach  
Long Beach, California

Please print - complete all information

Name (last name first):

CPG No.:

Name as you want it on badge:

Spouse/guest name:

Company:

Address:

City:

State: Zip Code: Country:

**Registration:**

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<td>On-Site registration (after 9/1/90) (includes luncheon)</td>
<td>$110.00</td>
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<tr>
<td>On-Site registration for spouse/guest (no luncheon)</td>
<td>$35.00</td>
</tr>
<tr>
<td>Luncheon for spouse/guest</td>
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**Annual Awards Banquet:**

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<tr>
<td>Registrant</td>
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<tr>
<td>Spouse/Guest</td>
<td>$40.00</td>
</tr>
<tr>
<td>Other Guests</td>
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**Technical Sessions:**

Cost included in registration

**Field Trips (limit of 30 people)**

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<th>Destination</th>
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<tr>
<td>White’s Island</td>
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<tr>
<td>Catalina Island</td>
<td>$75.00</td>
</tr>
</tbody>
</table>

**Tours (minimum of 30, maximum of 44, people)**

1. San Juan Capistrano | $35.00
2. Universal Studios  | $45.00
3. Long Beach         | $15.00

**TOTAL**

Please mail this form with check or money order payable to AIPG-California Section by September 1, 1990 to: Stephen M. Testa, Applied Environmental Services, 6695 E. Pacific Coast Highway, Second Floor, Long Beach, CA 90803, (telephone (213) 594-9485.)

JUNE 1990
President's Message

INSTITUTE LOGISTICS

Susan M. Landon

Many of the questions we receive at Headquarters concern the operation of the Institute: Why we do things the way we do and where the dollars from our dues are spent. I would like to outline how the Headquarters office works and the financial implications of some of AIPG's activities.

Publications

Member services (publications, postage, ballots, etc.) cost approximately $40.00 per member per year. TPG costs $35,000.00 per year and the Directory costs $11,000.00 per year to publish, which is about $11.50 per Member (without postage). In 1989, dues provided over ninety percent of the income of the Institute. This is out of proportion relative to other organizations and we need to diversify the source of our income

In order to begin an effective advertising campaign for TPG and the Directory, we will make some changes in format. We will welcome all comments and suggestions as we go through this process. Our goals are to continue to provide information to our membership in a timely manner and improve the readability of TPG. Ruth Anna, public relations consultant in Denver and wife of member Larry Anna, CPG 3978, will be assisting the advertising process. Advertising in the publications will allow the Institute to provide additional services to our membership and new activities to achieve our stated goals

Human Resources

Sixty-five percent of our expenses went to Human Resources expense

Secretary will answer the telephone, serve as receptionist, type, and handle the insignia orders.

Legislative and Legal

The Institute has retained Elisabeth Newton, CPG 4785, President of EGNA and Associates, as our Washington correspondent providing the Executive Committee and the membership with reports on activities in Washington that may have an impact on geologists. She writes a monthly column that appears in TPG.

We have recently subscribed to State-Net, a service which reports on federal and state legislative and regulatory activities. The Colorado Section has volunteered to assist Headquarters in reviewing the federal material; the state information will be sent to the appropriate Section.

AIPG does not have a lobbyist in Washington. Our effort is currently the work of volunteers with guidance from the Executive Committee.

The 1990 Government Affairs Conference was a great success but was more expensive than anticipated. (Secretary Lujan's comments were referred to in the Washington Post and on national TV... even though AIPG was not referred to by name.)

The Institute also handled three ethics cases in the past year resulting in the resignation of two members and the clearing of a third. Legal costs associated with supporting our Code of Ethics are also significant.

The activities that advance the goals of the Institute cost money. •
Hotel Reservation Form
American Institute of Professional Geologists
1990 Annual Meeting

Hyatt Regency Long Beach
October 9-13, 1990

Complete and mail to:
Hyatt Regency Long Beach
200 South Pine Avenue
Long Beach, CA 90802

Name__________________________________________________________

Address_____________________________________________________________________________________________________

City_____________________________ State____________________ Zip____________________________

Please complete the remainder of the form below. The block of rooms is being held until September 2, 1990. After that date reservations will be accepted on an availability basis only. Convention rates are $92 plus 10% room tax.

Check room type desired: One king bed________ Two double beds________

No. of Persons________ No. of Rooms________

Arrival Date____________ Departure Date______________________

The Hyatt Regency accepts all major credit cards.

Card Name_________________________ Expiration Date________________

Card No._____________________________________________________

Your signature

Complimentary hotel transportation to and from Long Beach Airport is available.

ATTENTION: Reservations should be made as early as possible to ensure one of the rooms allotted by the hotel for this meeting.
Executive Director's Column

WHAT I TELL THE STUDENTS

William V. Knight, Executive Director

By the time you read this I will have spoken to geology students and faculty on more than forty college and university campuses across the nation during the recent academic year. For many, it is the first time they have ever heard of AIPG. Some of you have asked me what I have been saying to them. Here is your answer.

I begin by telling them that professionalism is more than just holding a job. It is their life, full time, 24 hours a day, 7 days a week, 52 weeks a year, for as many years as they live. We are identified with the profession and we, by our actions, help to define it for others.

Then I tell them about the qualities of a professional. Our Members are all familiar with the three words in our seal: COMPETENCE, INTEGRITY, ETHICS. I discuss their definitions, how they work together, and what they should mean in practice.

With qualities go the responsibilities of a professional: to the world and environment to protect and enhance it, to society to provide for its needs and wants (and greed?), to one's employer to give the very best, to the profession to build it both technically and ethically, to one's family, and to oneself to protect and enhance one's reputation. I point out that every one of these responsibilities is always in conflict with all of the others and that each of us must examine them and decide for ourselves what we will do in each situation as it arises.

I tell them about AIPG and what we stand for: of the importance of those three words, COMPETENCE, INTEGRITY, and ETHICS. I tell them of our history, of our purposes, and of our services to our Members and to the profession. And I tell them of the things we want to do and how we can accomplish them by working together. I talk about the traditional, wonderful independence of geologists and how this sometimes gets in the way of working together.

They are always interested in where the jobs are. And, I tell them what I have learned in my travels and conversations around the country. I tell them what employers are seeking at the entry level and what is needed for advancement.

I see them taking notes assiduously when I talk about career management, keeping a record of their activities for future reference, planning their careers, and selecting from among opportunities to further or change those plans. I tell them not to become too narrow, but to be complete professionals. Our profession seems more volatile than most. The farther we get down the roads of our careers, the farther some of us seem to have strayed from our original career ideas. Times change and we must be prepared to learn and to adapt to change. Look how many petroleum geologists are now doing other things! How long will it be before the presently "hot" career of hydrogeology will follow petroleum geology? Will it follow? Will petroleum geology ever return as the dominant field for beginning geologists? What new fields will evolve? These are questions no one can answer with certainty. These students must recognize this and be prepared.

We professionals can help them in that preparation and in the development of their careers. It is natural for us to want to see others follow in our footsteps. But, for some of us, those footprints have been obliterated by the storms of change. New paths are being blazed and one of the purposes of AIPG is to help, not hinder, their development. The keys are COMPETENCE, INTEGRITY, and ETHICS, and each individual has a professional obligation to contribute.

These are the things I tell the students. They may sound idealistic and naive. Perhaps they are. But, without a healthy idealism, our profession is going nowhere. With it, our - their - future is unlimited.
FROM WASHINGTON

E. G. Newton & Associates

Administrative Land Exchange Criteria Examined

The House Environment, Energy, and Natural Resources Subcommittee is examining the criteria and procedures used by DOI to assess administrative land exchanges. The subcommittee is interested in: (1) what determines an appropriate exchange; (2) how fair market value determinations are derived; (3) how administrative exchanges relate to DOI mission priorities; and (4) how Interior determines that the national interest is served in an administrative exchange. The subcommittee is also interested in examining the program management aspects of administrative land exchanges, particularly budget, staff, and tracking and reporting procedures.

The subcommittee will examine several recent exchanges as "case studies" to comprehend better the complexities of the process. The first "case study" being examined involves a proposed exchange of coal lands in the Powder River Basin, Wyoming for a conservation easement on a 1100-acre private ranch held within Grand Teton National Park. A conservation easement guarantees that the offered-lands title-holder retains possession and existing activities continue, but that further development cannot occur. The quantity of coal involved in the exchange has been estimated at 200 million tons and was evaluated at $5.6 million dollars, the same determined value as that of the lands of the conservation easement. This evaluation estimated the coal value at about 3 cents per ton. A recent federal court ruling determined the value of Powder River coal at $2.40 ton. The DOE, which supports the exchange considers the latter value as not comparable for the coal lands affected by this proposed exchange. A subsequent "case study" hearing will examine a proposed exchange in the Santa Monica Mountains, California. Additional exchanges to be analyzed have not yet been identified.

Loma Prieta Reports

The Loma Prieta earthquake was not the "Big One" scientists have predicted for many years. In fact, the energy associated with the quake was 30 times less than that of the devastating 1906 San Francisco earthquake, and strong ground shaking lasted only eight to 10 seconds, a much shorter period than normally predicted for an R7.1 earthquake. The Loma Prieta temblor, however, did provide a rare opportunity to learn more about major earthquakes. Three recent publications examine the Loma Prieta impacts and offer lessons for the future.

The first is The October 17, 1989 Loma Prieta Earthquake (1989, 30 p.), published by the engineering firm of Dames & Moore. This is a well-illustrated special report that outlines the structural damages caused by the earthquake. Separate sections address the geological and the seismological aspects, and subsurface conditions. Infrastructure vulnerability, building damages, damages to data processing and manufacturing facilities, and nonstructural failures are also examined. Each section provides a clear explanation of the types of earthquake-damage that can occur. Single copies may be obtained free from Craig Taylor, Dames & Moore, 911 Wilshire Boulevard, Suite 700, Los Angeles, CA 90017, (213) 683-1560, ext. 372.

There are two recurring themes in the second publication: (1) local geologic conditions strongly influence damage and (2) the pattern of damage in 1989 was very similar to that witnessed in 1906. This recent booklet from the U.S. Geological Survey (USGS), entitled Lessons Learned from the Loma Prieta, California Earthquake of October 17, 1989, USGS Circular 1045, (1989, 50 p.), edited by George Plafker and John P. Galloway, describes the geologic setting, the earthquake and its aftershocks, surface deformation and expression of faulting, ground shaking, landslides, and liquefaction. Lessons Learned also describes damage to buildings, transportation routes, and utilities, the potential for future earthquakes, and the need for reducing earthquake hazards. Free copies can be obtained from the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, CO 80225, (303) 236-7476.

A third publication, also produced by the USGS, is The Loma Prieta Earthquake of October 17, 1989 (1989, 16 p.), by Peter Ward and Robert Page. This pamphlet describes the geologic conditions that caused the Loma Prieta earthquake and identifies future implications for California. It is written for the nonscientist and provides a concise, well-illustrated explanation of the geologic hazards in the region. In addition, it contains lists of two types of information sources: (1) government agencies and earthquake engineering organizations and (2) publications about earthquakes in general, personal preparedness, regional planning, seismic zoning, seismic safety planning, plan implementation, damage estimates, and maps. Free copies of this document are also available from the Books and open-File Reports Section, U.S. Geological Survey, at the above address.

[Natural Hazard Observer]

Geothermal Environmental Concerns

Investigation is underway into the causes of unanticipated declines in steam pressure at The Geysers geothermal area, California. Steam pressure in much of the reservoir has dropped from an initial 500 pounds per square inch when the first utilities went on stream in the 1960's to a current rate of about 200 pounds per square inch. The

continued on page 16
inquiry, authorized and funded by the California Energy Commission, is to be completed in about a year. The results of the study could cause limitations to future licensing of geothermal operations or production cutbacks for existing operations.

An increase in developmental activities during the 1980's may have overtaxed the reservoir capacity. One utility company has cancelled plans for additional plant construction and some facilities are not being used at full capacity. The Geysers provide about 2,000 megawatts or 4 percent of the state's 50,000 megawatts electrical energy capacity.

BLM Issues Report on ANWR Petroleum Potential

A newly published study, Petroleum Geology and Geochemistry of the Arctic National Wildlife Refuge 1002 Area (BLM-Alaska Technical Report 12), contains information that was originally compiled for inclusion in a 1987 report to Congress on various development or protection options for the ANWR coastal area. Interior has recommended Congress open the ANWR coastal region of Alaska to oil and gas leasing.

The technical report discusses the geological environment in ANWR, and provides evidence that a high probability exists that hydrocarbons occur in the coastal plain subsurface. The rock units are similar to those where discoveries were made at Prudhoe Bay, the Mackenzie Delta, and the offshore Beaufort Sea area.

"Source rock geochemistry shows that organic-rich and potentially oil-prone source rocks are widespread across ANWR," BLM noted. "This combination of potential reservoir stratigraphy and source rock geochemistry suggests that the [coastal plain] area has high potential for oil and gas discovery."

Interior's recommendation that Congress allow leasing in ANWR has been dead since last year's Exxon Valdez oil spill, but administration officials hope to breathe life back into the issue.


[Inside Energy]

Inspector General for National Science Foundation

Scientists do some lofty research for the National Science Foundation, but the agency's first inspector general suspects there are some researchers who harbor base motives. "There are individuals in any agency - and the foundation is not immune, and its grantees aren't - who steal," said Inspector General Linda G. Sundro, who spent eight years working for the Commerce Department's inspector general.

Sundro's new office, authorized by Congress in 1988, identified $161,000 in questionable expenditures in its first semiannual report. In 1988, the National Science Foundation made 17,000 grants totaling $1.8 billion. Expanding in-house auditing of research grants will be one office function, she said.

Another role Sundro identified will be to settle ethical questions similar to those raised in recent years about several researchers sponsored by the National Institutes of Health. "There is tremendous congressional interest," Sundro said, "in the whole issue of misconduct on the part of scientists."

[Washington Post]

Precious Metals Outlook for 1990s

Leading financial experts believe that platinum and gold prices are establishing their floor for the 1990s and will trend higher throughout the coming decade, according to a survey released by The Platinum Guild International (USA) Inc., an international trade association.

The survey of twelve financial analysts and precious metals experts from many of the country's leading banks, brokerage, and investment houses revealed:

Overall increased worldwide investment demand for platinum and gold.

A majority of analysts believe that political and economic factors (e.g. EEC, Eastern Europe) will have a greater beneficial impact on precious metals prices in the 1990s than in the 1980s.

Unless there is a serious recession, platinum and gold prices will not fall to the lows seen in the 1980s.

Respondents who compared platinum to gold predicted that platinum will outperform gold by possibly as much as $350 an ounce because of its greater market volatility and superior supply/demand position.

Survey participants saw an average range of $480-$600 an ounce for platinum in 1990, with gold prices trading between $410 and $480 an ounce.

[Skillings]

New DOE Advisory Board

The Secretary of Energy has established a special advisory board to report directly to him on energy matters. The first assigned tasks are a review of the interim report on the National Energy Strategy and an examination of ways to maintain the DOE national laboratory complex as an intellectual resource. The 28-member committee, which will be chaired by Thomas Everhart of the California Institute of Technology, includes three Nobel laureates, Leon Lederman, Joshua Lederberg, and Yuan Lee, William L. Fisher (CPG 2398) is a member of the Secretary of Energy Advisory Board (SEAB).

Geo-Smarts

At a recent murder trial, a witness testified that she denied her ex-husband permission to bury the body of his second wife on her property because "... it wasn't a good idea to bury anybody on my property because of the high water table."

(Thanks to the Geological Society of America, Engineering Geology Division for this item from the Philadelphia Inquirer.)

continued on page 17
BLM

Final rule 43 CFR Parts 3100, 3140, 3160, 4100, 9180, 9269 Minerals Management; Oil, gas, and geothermal resources leasing. Effective date: April 3, 1990. Contact: Ted Hudson (202) 343-8735. 55FR12350

OSMRE

Proposed rule 30 CFR Parts 723 & 845 Surface coal mining and reclamation operations; initial regulatory program and permanent regulatory program; civil penalties. Contact: Andrew DeVito (202) 343-5150. 55FR12624

DOE

Notice Compliance with National Environmental Policy Act (NEPA); Amendments to guidelines. Contact: Carol Borgstrom (202) 586-4600. 55FR13064

EPA

Notice of proposed decision. Hazardous and solid waste; conditional variance to Department of Energy Waste Isolation Pilot Plant. Contact Matthew Hale (202) 382-4746. 55FR13068

EPA

Notice State compliance with Clean Water Act requirements for adoption of water quality criteria for toxic pollutants. Contact: David Sahock (202) 475-7315. 55FR14350

OSMRE

Notice of Inquiry 30 CFR Parts 780, 785, and 816 Surface coal mining and reclamation permit applications, permanent program performance standards, backfilling and grading, and multiple seam and mountaintop removal mining. Contact: Raymond Aufmuth (202) 343-7952. 55FR14319

EPA

Final rule 40 CFR Part 373 Reporting hazardous substance activity when selling or transferring federal real property. Effective date: October 17, 1990. Contact: Office of Waste Programs Enforcement (202) 475-6770. 55FR14208

MSHA

Final rule 30 CFR Part 75 Safety standards for roof, face, and rib support; Effective date: May 18, 1990. Contact: Patricia Silvey (703) 235-1910. 55FR14228

Coast Guard


EXECUTIVE DIRECTOR'S ITINERARY

(subject to change)

The Executive Director is visiting various Sections, agencies, campuses, and other organizations. He is both talking and listening, exchanging information and ideas. Members are encouraged to attend these meetings wherever and whenever possible. His itinerary for the next six months, as presently scheduled, is:

June 2-6: American Association of Petroleum Geologists, San Francisco, CA
June 7-8: American Association of Petroleum Landmen, San Antonio, TX
June 8: Texas Section Members, San Antonio, TX
June 23: South Carolina Registration Board, Wilmington, NC
June 26: Florida Registration Board, Tallahassee, FL
July 14-15: Executive Committee, Arvada, CO
July 22-23: Washington Section, Seattle, WA
August 6-22: Meetings with geologists in Moscow, Tbilisi, Khar'kov, and Leningrad, USSR
September 10-12: Kansas Section, agencies and universities
September 15-19: Rocky Mountain Section, AAPG, Denver, CO
October 1-2: Association of Engineering Geologists, Pittsburgh, PA
October 3-5: Pennsylvania and West Virginia Sections and universities
October 8-13: Annual Meeting, Long Beach, CA
October 23-24: New Mexico Section, agencies, and universities.
October 27 - November 1: Geological Society of America, Dallas, TX.
November 12-16: Alabama, Mississippi, and Louisiana Sections, agencies and universities.
MEMBERS IN THE NEWS

Thomas B. Griswold, CPG 7487, has joined Rhodes and Associates, Inc. of Lexington, Kentucky, as Projects Manager in the Environmental Services Division.

Jack McQuat, CPG 3323, is President of Watts, Griffis and McQuat Limited of Toronto, Canada, which has entered into a joint venture with Cominco Engineering Services Ltd. to provide services to Severovostokzoloto, the Soviet North East Gold Mining Association.

Arturo G. Nisperos, CPG 4806, has been appointed Supervisor of Petrographic Services for Construction Technology Laboratories, Inc. of Skokie, Illinois.

Victor E. Ratcliffe, CPG 2220, has been elected Vice President of SIPES for 1990-91. Frank M. Brooks, CPG 1768, George E. Farmaar, CPG 1924, and John F. Sulik, CPG 2238, are newly elected to SIPES board of directors.

Terrance Swor, CPG 4097, President of American Engineering Testing, formerly Geotechnical Engineering Corporation, has announced formation of American Petrographic Services and that both companies will be based in St. Paul, Minnesota.

Lehmann to Draft Maine Mine Permit Regulations

The State of Maine’s departments of Environmental Protection and Conservation have jointly awarded a contract to draft new mining permit regulations to Ernest K. Lehmann & Associates, Inc. (ELA) a Minneapolis-based geological consulting firm. Ernest K. Lehmann, CPG 583, is a Past President of AIPG.

The state agencies awarded this contract on a competitive bid basis pursuant to 1990 legislation which stated that "...nonferrous metal mining, if conducted properly, is an acceptable and necessary activity which results in benefits to the State and nation." The same legislation authorized funding for the project. The legislation was adopted in response to interest expressed by several mining companies in applying for mining permits to develop known metallic mineral deposits in Maine. The state agencies, in hiring a consultant, are seeking to ensure a regulatory framework within which mine permitting will be efficient and thorough and will assure environmentally sound development.

ELA has been internationally active in the metals and industrial minerals industries for 23 years. The firm will be assisted on this project by James R. Muhm, CPG 2598, a Denver-based geologist and specialist in mine permitting and environmental audits, Joseph G. Beaton, Esq., an attorney with extensive mining-law experience, and Frederick M. Beck, CPG 6757, a consulting geologist based in Yarmouth, Maine.
Applications Received

(as of May 21, 1990)

Applicants for certification must meet AIPG's standards as set forth in its Bylaws on education, experience and competence, and personal integrity. If any member 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.


CHAMPLIN, Stephen C., Jr., 939 Vanguard, Austin, TX 78734. Sponsors: W. Douglas Hall, David Langenkamp, Jan Sloan.

ERMAN, Scott M., P.O. Box 111276, Anchorage, AK 99511. Sponsors: Harold J. Moening, Robert Dugan, Mark Veit.

HARRIS, Ronald E., 122 National Lane, Williamsburg, VA 23185. Sponsors: John Isbister, Bill Moore, Mike House.


SNYDER, John M., 3125 Ventura Drive, Abilene, TX 79605. Sponsors: Gerald V. Mendenhall, Charles F. Dodge, James A. Savage.


WINSTANLEY, Daniel J., 11005 S.E. 26th Street, Bellevue, WA 98004. Sponsors: David R. Haddock, Micheal R. Warfel, Dwight Deal.


New Members

(as of May 21, 1990)

ALOYSIUS, David L., CPG 7900, Buffalo, NY
BLACKERT, Donald W., CPG 7901, Amity, PA
CHANDLER, Paul A., CPG 7902, Dallas, TX

CHAPMAN, Mark A., CPG 7903, Tuscaloosa, AL
CHESSON, Robert H., CPG 7904, Denver, CO
DAVIS, Robert A., CPG 7905, Dallas, TX
DORISKI, Thomas P., CPG 7906, Ronkonkoma, NY
EARLEY, Kevin H., CPG 7907, Broomall, PA
GAVRAS, John M., CPG 7908, Flushing, NY
HADDON, Charles, CPG 7909, Denver, CO
HEYDENBURG, Richard J., CPG 7910, Albuquerque, NM
HURLBUT, William W., CPG 7891, Carrollton, TX
IRWIN, Charles T., CPG 7910, Albuquerque, NM
JENKINS, Thomas F., CPG 7892, Worthington, OH
JOHNSON, Robert C., CPG 7911, Lakewood, CO
KAUER, James W., CPG 7912, Green Bay, WI
KILBURY, Richard K., CPG 7893, Albuquerque, NM
LAND, David M., CPG 7913, Denver, CO
LINGHAM, Jeffrey M., CPG 7914, Ashland, MA
LIPPITT, Clifford R., CPG 7915, Reno, NV
MCATEE, Winfield L., CPG 7916, Waco, TX
MCBRIDE, Mary W., CPG 7894, Austin, TX
MUSIKER, Laurie B., CPG 7917, Farmingdale, NY
NICHOLAS, Michael L., CPG 7918, Tannersville, PA
POKORKNY, Harvey D., CPG 7919, Evergreen, CO
RICE, Thomas E., CPG 7895, Mechanicsville, VA
RICHARDS, Kenneth A., CPG 7896, Columbus, OH
SCHUETT, Lynn L., CPG 7897, Golden, CO
SELZNICK, Martin R., CPG 7920, Richardson, TX
SZPAKIEWICZ, Michael J., CPG 7921, Bartlesville, OK
THOMPSON, Gary L., CPG 7922, La Crescenta, CA
TRIPPHEL, Richard J., CPG 7898, Dublin, OH
TURNER, Martyn M., CPG 7899, Houston, TX
WHITBECK, Luanne F., CPG 7923, Ballston lake, NY

RETURN THIS FORM FOR APPLICATION INFORMATION

NAME__________________________
(Please Print)

ORGANIZATION__________________

STREET__________________________

CITY__________________STATE____ZIP____

TELEPHONE_____________________

Please send me information on:

☐ Certification - (degree and minimum of five years of experience).

☐ Candidate for Certification - (degree and less then five years of experience).

☐ Student - (major in geology and minimum of eighteen semester hours of geology coursework).

American Institute of Professional Geologists
National Headquarters
7828 Vance Drive, Suite 103,
Arvada, CO 80003
(303) 431-0831

JUNE 1990
THE AIPG FOUNDATION

Support Geologically Oriented

- Public Information
- Public Education
- Research on Public Issues
- Forums for Professionals

Send your tax deductible contribution to the endowment fund of:

The AIPG Foundation
C/o A. U. Honkala, Treasurer
13405 Woodbriar Ridge
Midlothian, VA 23112

Be Proud of Your Certification...
Display Your AIPG Membership...
With These Distinctive Items...

AIPG INSIGNIA ITEMS AVAILABLE

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<td>Steel Die (replacement insert)</td>
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<tr>
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TOTAL

Name:
Mailing Address:
Day Phone Number:
CPG #________ Date Conferred:

Make checks payable to: AIPG
To order by phone call: (303) 431-0831
Visa and Mastercard accepted