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PROFESSIONAL GEOLOGISTS

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July, 1980

17th ANNUAL MEETING September 24-27, 1980
Mobile, Alabama

GEOLOGIC CONCERNS IN COASTAL AREAS - 17th Annual Meeting

The 17th Annual Meeting of the American Institute of Professional Geologists will be held in Mobile, Alabama at the Mobile Hilton September 24-27, 1980. The theme of the meeting will be "Geologic Concerns in Coastal Areas". Pre-registration forms and hotel reservation forms will be mailed from Headquarters in early August. Registration will be held at the hotel on Wednesday, September 24 from noon until 5:00 p.m. and again on Thursday, September 25 from 8:00 a.m. until 5:00 p.m.

There will be an impressive group of speakers addressing the geologic concerns in the Gulf Coast such as oil and gas leasing activities, geothermal energy, Outer Continental Shelf activities, regulatory requirements, beach erosion, and salt water intrusion. The speakers sessions will be held on Thursday, September 25 and Friday, September 26.

There is a geologic field trip planned to the South Alabama Oil Fields. This field trip is being prepared by the Alabama Geological Survey and should be very interesting.

There are also several events planned for the spouses. A hospitality area will be open between 8:00 a.m. and 10:00 a.m. on the mezzanine on Thursday and Friday. A Ladies "How to" Fashion Show is planned for Thursday from 10:00 a.m. to 11:30 a.m. Also, a tour of the USS Alabama, USS Drum, and Alabama State Docks has been arranged. This tour begins at 1:00 p.m. and continues until 4:00 p.m. Running concurrently with the USS Alabama Tour will be a tour of Historic Old Mobile. The Annual Meeting Committee has also arranged for a river cruise on the Mobile River on the Stearnwheeler "Magnolia Blossom". This river cruise will be on Thursday and will leave at 2:00 p.m. On Friday, September 26, the USS Alabama tour, the Historic Old Mobile tour will be given in addition to a trip to the Eastern Shore of Mobile Bay and Malbis. This trip will begin at approximately 9:30 a.m. Spouses are also welcome on the geologic field trip. Since the trips and tours are being run two days in a row, you can enjoy all of them -- see the USS Alabama one day and visit Historic Old Mobile the next. Mobile also has some fine shopping centers, one of which is located across the street from the Hilton, and Grayline Tours offer daily tours of Bellingrath Gardens.

The Advisory Board and Executive Committee will meet Wednesday, September 24. There will be an Ice Breaker Cocktail Party on Wednesday evening at 5:30 p.m. sponsored by the Alabama Petroleum Council. This should be an excellent way to wind up a long day of meetings!

The Annual Banquet will be Thursday evening, September 25. The dinner will be preceded by a cocktail party at 6:00 p.m. and dinner will start at 7:00 p.m. The Banquet Speaker will be Mr. Don Kash, Director of the Conservation Division of the U. S. Geological Survey. Mr. Kash will give us an overview of the Outer Continental Shelf activities and the regulatory responsibilities of the Conservation Division of the U. S. G. S. Institute awards will also be presented at the Annual Banquet.

Friday evening, September 26 there will be a Seafood Jubilee at historic Fort Conde' in Mobile. Fort Conde' is a French fort designed in the early 1700's and built between the years 1724 and 1735. The fort was reconstructed by the City of Mobile in 1975-76 for the American Revolution Bicentennial. The Seafood Jubilee will be held in the courtyard of the Fort. A Dixieland band will provide our entertainment along with the firing of canons and muskets for those of you who can stand a bit of noise! For those of you who remember the Cajun Barbeque in Lafayette last year, this promises to be just as much fun or more!! Something you surely won't want to miss!

On Saturday, September 27, there will be the Consultants Workshops. Mr. Russ Slayback and his Consultants Committee are putting together workshops on such subjects as fee justification and what it costs to put a geologist in the field; the economics of branch offices; the problems and growth of a one-man operation; and contracts. There will also be a workshop on public relations given by our Public Relations Coordinator, Ms. Ruth Anna.

The Annual Business Meeting of the Institute has been turned into a luncheon this year. The luncheon will be held from 11:30 a.m. until 1:30 p.m. The President of the Institute, Dr. James R. Dunn, will give his "State of the Institute" address and other items of Institute business will be discussed and voted upon. All members are urged to attend this luncheon.

BUSINESS AFFAIRS OF THE INSTITUTE

Annual Meetings:

17th Annual Meeting - Mobile, Alabama
 September 24 - 27, 1980
 General Chairman: Jack H. Bryan
 Headquarters Hotel: Hilton Inn-Mobile

Other Annual Meetings:

18th Annual Meeting - Williamsburg, Virginia
 November 5 - 7, 1981
 General Chairman: John Kent Kane II
 19th Annual Meeting - Pasadena, California
 October 13-16, 1982 (NOTE: DATES NOW SET)
 General Chairman: Howard T. Anderson
 20th Annual Meeting - Jackson, Wyoming
 (DATES NOT SET AS YET)

AIPG NATIONAL COMMITTEES

AGI Governing Board Representative

James R. Dunn

Annual Meetings Committee

A. Wayne Wood, Chairman

Awards Committee

Adolf U. Honkala, Chairman

Consultants Committee

Russell G. Slayback, Chairman

Employment Survey Committee

Wallace B. Howe, Chairman

Environmental Geology Committee

Paul DuMontelle, Chairman

Ethics Committee

Rudolph K. Hoagberg, Chairman

External Appointments Committee

Raymond C. Robeck, Chairman

Headquarters Committee

Andrew G. Alpha

Jay G. Marks

M. Dean Kleinkopf

Historian

George W. White

Legal Action Committee

Fred L. Stead, Chairman

Legislative & Regulatory Committee

Russell Wayland, Chairman

William E. Cutcliffe, Vice Chairman

Membership Committee

Susan Landon, Chairman

National Research Council Representative

Larry L. Sloss

Nominating Committee

Edward E. Rue, Chairman

Inter-Society Advisory Group

M. O. Turner, Chairman

Professional Guides Committee

Bob Paschall, Chairman

Public Affairs Committee

Randall T. Chew, III, Chairman

Registration Alert Committee

William E. Cutcliffe, Chairman

APPLICATIONS RECEIVED

CINTRON, John, Jr.; Houston, TX
 R.J. Krakowski; E.W. Lueck; D.R. Scherer; H.V. Hilton; H.H. Nixon
 CLEMMENS, Craig B.; Pittsburgh, PA
 B.A. Waite; J. Mattingly; A.M. Jacobs; J. Serafin; H.L. Crouse
 COLLINS, Donna B.; Arvada, CO
 J.W. Rold; A.L. Hornbaker; F.W. Osterwald; K.J. Wenrich-Verbeek; E.B. Eckel
 DESFORGES, Cheryl E.; Houston, TX
 B. Morrison; H. Britt; N. Reitman; C. Henslee; O. Bentley
 DUBOIS, Paul; Owensboro, KY
 B.R. Oates; D.W. Reynolds; A. Smith; W.A. Zumwalt; J.K. Vincent
 HALL, W. Douglas; Austin, TX
 W.L. Fisher; L.J. Turk; W.M. Greenslade; J.V.A. Sharp; J.R. Mount
 HALVATZIS, Gregory J.; Clinton, MS
 S. Childress; C. Spiers; M. York; E. Boswell; J.A. Chisholm
 HENKLE, William R., Jr.; Denver, CO
 W.G. Owens; J.R. Muhm; D.K. Murray; W.R. Speer; D.D. Reitz
 IVERSEN Christine M.; Williamston, MI
 R. Minning; R. Hilty; D. Malott; R. Bissell; W. Walden
 IVERSEN, William M.; Williamston, MI
 R. Minning; R. Hilty; R. Bissell; W. Walden; G. Henry
 KENNEDY, James A.; Jasper, TN
 A.R. Leamon; S. Maher; E. Luther; R. Hershey; L. Knox
 LARSON, Robert J.; Vicksburg, MS
 J.R. Curro, Jr.; E.A. Dardeau, Jr.; W.K. Dornbusch, Jr.; K. Kramer; S. W. Nance
 LETSKY, Connie P.; Belleville, IL
 K. Gastreich; B. Yare; L.H. Kumamoto; C.A. Harbison
 D.H. Whitehouse
 REYNOLDS, Santiago M.; Houston, TX
 F.E. Kottlowski; W.B. Hill; J.M. Hills; M.D. Campbell
 E. Greenwood
 SCADDEN, Raymond W.; Richardson, TX
 J.F. Vincelette; L.J. Rehkemper; W. Miller; R.M. Winn; W.D. Bacheller
 TILFORD, Norman R.; Liberty, NC
 W. Wheeler; H.A. Spellman; A. J. Depman; W. E. Cutcliffe; P. Fox

If any Member has any recommendations, positive or negative regarding the qualifications of any of the above applicants, please mail your comments to General Headquarters within 30 days. Your comments will be held confidential within the Executive Committee and Screening Board of the local Section.

NEW MEMBERS

FIFE, Donald L. #4735; Tustin, CA
 GRANT, Stanley C. #4736; Elizabeth, CO
 HAGGARD, Eddie Ray #4737; Houston, TX
 JOHNSON, Stephen M. #4738; Golden, CO
 KRAJEWSKI, Stephen A. #4739; Arvada, CO
 LEONHART, Leo S. #4740; Kennewick, WA
 ST. CLAIR, Ann E. #4741; Austin, TX
 VAN ALSTYNE, Frederick E. #4742; Saratoga Spgs, NY

Please take a moment and welcome these new members.

SCHEDULE OF EVENTS
17th Annual Meeting - Mobile, Alabama

Wednesday, September 24

REGISTRATION 12:00 noon - 5:00 p.m.
Advisory Board Meeting 8:30 a.m. - 12:00 noon
Executive Committee Meeting 1:30 p.m. - 5:00 p.m.
Ice-Breaker Cocktail Party 5:30 p.m. - 7:30 p.m.

Thursday, September 25

REGISTRATION 8:00 a.m. - 5:00 p.m.
SPOUSE HOSPITALITY 8:00 a.m. - 10:00 a.m.
Executive Committee Meeting 8:30 a.m.-12:00 noon
Speaker Sessions 8:30 a.m. - 12:00 noon
Fashion Show (Spouse) 10:00 a.m. - 11:30 a.m.
River Cruise 2:00 p.m. - 4:45 p.m.
USS Alabama, USS Drum & Alabama State Docks
Tour 1:00 p.m. - 4:00 p.m.
Historic Old Mobile Tour 1:00 p.m. - 4:00 p.m.
Annual Banquet - Cocktails 6:00 p.m. Banquet
7:00 p.m. - 9:00 p.m.

Friday, September 26

SPOUSE HOSPITALITY 8:00 a.m. - 10:00 a.m.
Speaker Session 8:30 a.m. - 12:00 noon
Malbis Tour 9:30 a.m. - 12:00 noon
Geologic Field Trip - 1:30 p.m. - 4:45 p.m.
USS Alabama, USS Drum and Alabama State Docks
Tour 1:00 p.m. - 4:00 p.m.
Historic Old Mobile Tour 1:00 p.m. - 4:00 p.m.
Seafood Jubilee at Fort Conde' 7:00 p.m.-9:00 p.m.

Saturday, September 27

Consultants Workshops 8:00 a.m. - 11:30 a.m.
Annual Business Meeting Luncheon 11:30 a.m. -
1:30 p.m.

SECTION NEWS (cont.)

journals, to support the case. We are particularly interested in cases which occurred in New York State and in the Northeast, although we would welcome events in other areas, if they are particularly striking and carry a potential for happening here.

Please take a few minutes to add to our list by writing to: Angelo Tagliacozzo, 900 W. 190th Street, New York, NY 10040.

GROUND WATER AND HAZARDOUS WASTE
POSITION PAPERS

At the Vail meeting of the Executive Committee on July 12-13, 1980, the development of AIPG position papers on Ground Water Resources and on Nuclear and Hazardous Waste Disposal was authorized. The purpose of both efforts, as in the case of previous AIPG position statements on Oil and Gas Resources, Mineral Resources, and on the withdrawal of Alaskan Lands, is to provide factual data and conclusions on important geologic and public issues to the geologic community and to decision-makers in private and governmental sectors.

AIPG members known to be expert in these fields will be contacted to serve as authors and reviewers of these position statements. Other members desirous of contributing their time and efforts as authors or reviewers are asked to respond to the Executive Director, Stuart P. Hughes, at Headquarters. It is anticipated that most of the work on these projects will be conducted by mail and will not require attendance at meetings.

We urge participation of any interested members -- we need your help and expertise.

EXECUTIVE SECRETARY RESIGNS

A staunch supporter of AIPG, and our hard working Executive Secretary, Deborah L. Dare, has tendered her resignation to become effective after the Annual Meeting in September. Ms. Dare performed the day-to-day duties and responsibilities of AIPG National Headquarters for over a year between the resignation of Arthur F. Brunton, past Executive Director and the February, 1980 hiring of our new Executive Director. Ms. Dare has many friends in AIPG who will sorely miss her cheerful, outgoing personality and her devoted attention to the needs of the Institute.

WASTE DISPOSAL - Approaching a National Crisis?

The proceedings of the 16th Annual Meeting held in Lafayette, Louisiana September 19-22, 1979 are now available from AIPG Headquarters.

Several of the papers included are: "The Impact of Waste Disposal on Land and Water Resources" by H. W. Coulter; "Waste Disposal Requirements and Louisiana's Environmental Qualities" by Joseph D. Martinez; and "An Overview of Waste Disposal in the State of Louisiana" by Jim Hutchinson. The price is \$15.00 plus \$2.50 postage.

SECTION NEWS

Minnesota-Wisconsin Section

On March 6, 1980, William A. Newton, Vice President AIPG was the guest of the Minnesota-Wisconsin Section AIPG at the Twin City Geological Society cocktail party. Mr. Newton informally spoke to the Section members about the importance of a Section having a project. He used many of the Colorado Section's projects as examples and with the upcoming elections, voting record examinations, he suggested, would be a most interesting project for any Section. Mr. Newton pointed out that projects show Section members the viability of the Section and helps to attract new members.

Northeast Section

As part of the effort to gain legal recognition for our profession (i.e. geologic registration), the Northeast Section Executive Committee is assembling a case history list of undertakings that met with disaster or produced unfavorable results because geologists were not consulted or had no decision-making powers. One obvious case is the Love Canal. Along with a description of the case, we need some documentation that supports the story.

Can you supply any case histories to add to our list? We hope that you will also have some references, such as articles in newspapers, magazines or technical

HEADQUARTERS CORNER

By Stuart P. Hughes
Executive Director

The American Association of Petroleum Geologists had its annual gathering at the Denver Convention Center June 9-11, 1980. The meeting attracted a reported 9,951 attendees and even if this includes exhibitors, this is a very respectable number.

There are those who maintain numbers don't mean very much and that AIPG should be interested in quality only. Well, quality is a pillar of AIPG's structure, attested to by the prominence of its certification program. Numbers are also important. The more AIPG members there are, the more widespread will be an awareness of AIPG. A large number of members also increases the influence AIPG can bring to bear on government legislators and executive agencies. AIPG is now at the point where much of each new member's dues is discretionary income and does not have to be used just to keep the organization afloat. Examples of use of discretionary funds are the recent employment of a part-time public relations consultant and the Congressional Reception for legislators in Washington, DC last March. More members will provide additional opportunities to further AIPG efforts like these.

AIPG had a booth at the AAPG convention that was personed (I would say manned, but Debbie Dare was there a good part of the time) at various times by Debbie Dare, Ed Warren, Bobby Timmons, John Rold, Jay Marks, John Gustavson, Paul Fairchild and myself. Many applications were provided to visitors to the booth and we hope a significant number will be filled out and returned.

Apparently without the knowledge of the American Congress on Surveying and Mapping (ACSM), a local surveyor was providing testimony to a state legislative committee in Ohio. His testimony was to replace geologists with surveyors in the requirement for geologists to have a primary responsibility in reclamation in surface mining regulations in proposed state legislation. The legislation was related to the Office of Surface Mining regulations providing for geologists to be one of the primary professionals to sign off on surface mining reclamation plans.

This effort was called to our attention by Horace Collins and Richard Struble of the Ohio Section, with an assist from Jim Hamersley, our Legislative Counsel in Washington, DC. Russ Wayland, Chairman of the Legislative and Regulatory Committee kept track of the progress of the committee for AIPG. AIPG testimony was presented for retention of geologists. A change was made (the bill is not final yet) to add the surveyors and to retain the geologists. This is a very good example for the need to monitor state legislative activities.

Further attention will be needed to ensure surveyors are not doing geology under this bill as agreed to under the Memorandum of Understanding between AIPG and ACSM. This agreement generally provides that geologists will not engage in land surveying (when not licensed to do so) and surveyors will not engage in the practice of geology (when not qualified to do so).

Dan Miller and I are working as advisors to the Bureau of Land Management Energy and Minerals program study. The study is being led by Steve Leroux and other members of the Division of Management Research of BLM's Washington office. Also included were George Turcott, retired Associate Director of the Bureau, Don Truesdell, acting Assistant Director, Energy and Mineral Resources BLM, Bob Moore, Office

of Coal Management BLM, and a representative of the U. S. Office of Personnel Management. Dan Miller is the State Geologist for Wyoming and we two AIPGers were the only non-Federal government geologists there.

The BLM representatives stated their concern with their Energy and Minerals program; for one example, the problems of recruiting and retaining people qualified in geology and mining engineering.

During a short orientation, Frank Gregg, Director BLM, encouraged a free, wide-ranging discussion of an idealized program. This idealized concept is to be worked up into a program by a BLM work group. Additional input will be solicited from inside BLM, State Geologists, professional societies, industry, universities, etc. BLM State Directors will also review the proposal. A final review will be made by the advisory group to compare the work group product to the advisory group concept.

Selected key points were identified as follows:

1. The Federal Minerals program is recognized as vital to the Nation. (includes concern for physical and statutory availability of minerals and responsiveness to public service needs)
2. BLM's Energy/Minerals role is clearly defined vis-a-vis other Federal agency roles/responsibilities. (includes concern for professional growth, retention, etc. of geologists in BLM)
3. Minerals assessment capability is commensurate with that used for other resource programs.
4. The total program includes energy minerals, non-fuel minerals, earth sciences, and surface protection related to mining activities.
5. The Energy/Minerals program is totally integrated into BLM's multiple-use management process.
6. The program has professional/scientific/technical credibility.

The BLM has made similar (probably not so broad) studies in the recent past which have resulted in little noticeable improvement. However, there are forces at work (energy problems, reliance on questionable foreign sources for strategic minerals, etc.) that are more noticeable now that may provide a stimulant for change not previously present.

LAPEL PINS AND DECALS

Pursuant to many requests from members to "see before they buy", this is what they look like.

The decal is pictured and is three inches in diameter. The lapel pins carry the same design and are available in gold (\$12.00) or brass (\$5.00). Decals are 45¢ each. Please send check with order to General Headquarters, P. O. Box 957, Golden, CO 80401.



POSITION OPENING

MAPCO, Inc., an expanding energy resource company, has immediate openings for District Geologists for both the Rocky Mountain Region and Mid-Continent Region.

Western District Geologist Billings, Montana

*B.S. Degree in geology, advanced degree preferred

*Minimum 6 years exploration geological experience preferably within the Rocky Mountain Region. Specific experience in the Rocky Mountain Thrust Belt and Basin and Range is most desirable

*Familiarity with geophysical exploration techniques mandatory

*Previous supervisory experience desirable

Eastern District Geologist Billings, Montana

*Same requirements as the Western District Geologist, except experience should include Williston Basin, Wyoming and Montana

These positions are located in Billings, Montana. Salary is commensurate with experience, plus a comprehensive benefits package. For consideration, please send resume including salary history in complete confidence to: Professional/Technical Recruiting Coordinator, MAPCO, Inc., 1800 S. Baltimore Avenue, Tulsa, OK 74119

APPOINTMENTS GEOLOGISTS CAN FILL

The AIPG External Appointments Committee is trying to assist Federal and various State officials fill vacancies in their departments. At this time there are the following vacancies:

1. Geologist - U. S. G. S. - GS-15, Reston, VA No. 80-213
2. Supv. Physical Scientist - U. S. Bureau of Mines - GS-15, Washington, DC No. 80-177
3. Chief, Office of Energy Resources ES-1350 - Reston, VA No. 80-244

AIPG now receives a weekly listing of nearly all Federal vacancies. The above listings are for GS-15 or higher only.

If you are interested in any position or know of other vacancies, please contact Ray Robeck, Chairman of the External Appointments Committee (303) 233-4748.

NEW PUBLICATION

The Association of Soil and Foundation Engineers (ASFE) has published a new case history report of a professional liability loss situation experienced by a member firm.

The report (case history number 8) discusses problems faced by a consulting geotechnical engineering firm retained to perform a soil and foundation study. Volunteered guidance on pavement design embroiled the firm in five years of legal entanglements.

This publication is available for \$2.00 from ASFE, 8811 Colesville Road, Ste. 225, Silver Spring, Maryland 20910. ASFE has other case histories available also.

PROFESSIONAL PARAGRAPHS

J. B. Cox, CPGS 2828, has joined the staff of Coral Petroleum Development, Inc. as Exploration Manager for oil and gas exploration through the U. S. Congratulations!!

Robert F. Kaufmann, CPGS 2590, has been appointed Senior Geologist for Converse Ward Davis Dixon in the firm's Las Vegas office. Dr. Kaufmann is responsible for geological and hydrological studies from the Las Vegas office and participates in major geotechnical projects for the firm's six other offices. Best of luck!!!

Charles W. Houlik, CPGS 3612, has been named Senior Geologist by Dames & Moore. Dr. Houlik is based in the firm's Cranford, NJ office. Dr. Houlik has conducted a variety of foundation and siting investigations for nuclear- and coal-fueled electric generating stations. Congratulations!!!

James E. Slosson, CPGS 1109 and Bruce Barron, CPGS 929, along with Willard C. Gere have joined together to perform a regional scale analysis of the oil and gas potential of the Southern Ute Reservation. The work is being done for the Council of Energy Resource Tribes with a goal of promoting the general welfare of the 25 tribe members through the protection, conservation and prudent management of their energy resources. Good luck!!!!

NEWS ITEMS

100th Anniversary-California State Geological Survey

One or two issues prior to this one, we reported on the 75th anniversary of the Illinois State Geological Survey. Gordon Oakeshott (CPGS 45) has called our attention that this year is the 100th anniversary of the California State Geological Survey. The California Survey was founded as the State Mining Bureau in April of 1880. To Gordon's knowledge, this is the oldest continuously-funded state geological survey in the country. For those who are interested, they can read the article in the April, 1980 issue of California Geology entitled "Inside the California Division of Mines and Geology - The First Century". This article was written by Gordon Oakeshott. Thank you very much for keeping us all informed.

Geologist - President of the University of Southern California

We are pleased to note that a geologist, James H. Zumberg, has just been selected as President of the University of Southern California. Congratulations and best wishes.

Texas Academy of Science Meeting

Victor Oppenheim, CPGS 3965, of Dallas has reported at the Texas Academy of Science meetings on detailed findings as a result of 70 core and auger borings in the area of Erath County, Texas and the adjoining counties. Results from about 400 samples assayed by Atomic Absorption and fire assay prove unequivocally the presence of gold and silver in the Commanchean Series at various depths down to 60 feet (Continued on page 7)

July '80

AIPG WASHINGTON REPORT
Legislative and Regulatory Activity Watch List

Compiled monthly by your Legislative and Regulatory Committee: Russ Wayland, Chairman, Washington, DC and AIPG Legislative Counsel, James U. Hamersley and Gail Leslie Fairman, Suite 1040, 1800 M Street NW, Washington, DC 20036 (202) 223-8200.

<u>Bill No./Sponsor</u>	<u>Description</u>	<u>Previous Action</u>	<u>Current Status</u>	<u>Comments</u>	<u>AIPG Position</u>
NEW LEGISLATION					
Amend. 1684 to S 1637 Bumpers (D-AR)	Mandatory competitive leasing system for all onshore oil and gas lands. 5 yr. lease terms. Quarterly public nominations and sales.	Administration requested submission of S 1637	5-8 Senate Energy Comm. approved Amend. as substitute for S1637 by vote of 9-8	Close vote means bill will have rough time on floor	AIPG opposes competitive leasing
HR 2743 Fuqua (D-FL)	Materials Policy Research Act -to provide a national policy for materials research & devel.	Passed House 12-3-79	Science Subcommittee (Senate Commerce) to hold hearings in July		
HR 2759 Studs (D-MA)	Deep Seabed Mining Bill Estab. licensing and permit system for U.S. or U.S.-controlled mining interests. Permits would include environ. protection provisions	Two different versions of HR 2759 reported out of Merchant Marine & Int. Comms. Bill held in abeyance while Law of Sea Conference met. The present consensus bill is a result of staff negotiation.	House passed 6/9. Senate passed w/amendments to approach S 493. House now considering the amended legislation if it is acceptable a conference may be avoided.		
S 493 Melcher (D-CA)	Deep Seabed Mining Act	Passed Senate 12-12-79	See above HR 2759		
H J Res. 573 Forsythe (R-NJ) ***	Joint resolution would direct the President to remove administrative restrictions which impede or constrain the leasing of energy resources on public offshore and onshore lands		Senate version referred to Energy & Nat. Res. Comm. On the House side, the resolution is in Agriculture, Merchant Marine, & Inter. Comm.		
S J Res. 184 McClure (R-ID)					
HR 39 Udall (D-AZ)	Alaska Lands. Protects 125 mil. acres, 67.4 mil. acres designated wilderness	Passed House 5-16-79	Pending in Senate	Endorsed by Carter Admin. & conservation interests	Previous testimony
S 9 Jackson (D-WA)	Alaska Lands. Senate version sets aside 102 mill. acres w/ 38 mil. as wilderness	Senate Energy Comm. completed hearings	Senate debate may begin week of July 21	Tight Senate schedule & likely acrimonious debate & conference probably mean no bill this session.	
Amend 626 Tsongas (D-MA)	Environmentalist alternative to S 9, similar to land area withdrawal in House bill		Will be offered as substitute as last item in debate	Gravel (3 amend), Stevens (3), and Tsongas (5) amendments have been exchanged per earlier agreement	
S 2009 Church (D-ID)	RARE II/Central Idaho 2.2 million acres of wilderness	Passed Senate 11-20-79 Passed House 4-16-80	Conference report anticipated	Conference compromise position would designate controversial West Panther Creek area as wilderness with special management zone. to permit mining of cobalt.	

(Continued from page 5)

and possibly deeper.

This occurrence is striking and could be of economic importance given the high values at present of gold and silver. Although the amounts found thus far were in microscopic particles, volume could be developed. The exploration is continuing.

Phosphate and Energy

(Reprinted from the May 1980 issue of Phosphate News)

While increasing production to meet a growing demand for fertilizers, the Phosphate Council's member companies cut energy consumption in 1979 through the use of stringent energy conservation measures.

Electric consumption was reduced a whopping 100 million kilowatt hours in 1979; meanwhile, the cost paid for electric service soared to \$162 million, a 16% increase over the previous bill.

Natural gas use increased, but the industry's petroleum and other fuel consumption fell 11%. The price of these fuels doubled during the course of the year.

The companies incorporate a variety of energy conservation programs and procedures into their operations, including the use of by-product steam to reduce electric use, the monitoring of operations by Energy Engineers and the creation of corporate energy goals, to list a few.

The Council's member companies spent an estimated \$4.6 million on energy conservation in 1979.

NEW PUBLICATIONS

The cover of a new issue of Oklahoma Geology Notes features a set of three photos that show in progression the inception, development and bursting of one of the large natural gas bubbles that have been erupting from mud-filled craters in Woods County, northwestern Oklahoma. Photos and cover description are by Donald A. Preston, petroleum geologist with the Oklahoma Geological Survey, who, with OGS geologist and geochemist, William E. Harrison, CPGS 3319, has been conducting intensive investigations of the phenomenon.

Harrison, who has served as shipboard geochemist on two ocean cruises of the Deep Sea Drilling Program (DSDP), is the author of a brief article in the issue, in which he describes ice-like gas hydrates recovered from cores taken in last spring's DSDP Leg 67 cruise off the western seaboard of Central America. Gas in these hydrates increases in pressure upon thawing and can present a hazard in drilling into sedimentary strata. Only a few specimens from ocean sediments had been recovered previously.

The lead article in the issue is a report by OU professor George G. Huffman on the stratigraphy of the Woodbine Formation in southern Oklahoma, a unit of Cretaceous age composed mainly of sandstone and shale.

The issue also contains several more interesting articles. Oklahoma Geology Notes can be obtained from the Oklahoma Geological Survey, 830 Van Vleet Oval, Norman, OK 73019 for \$1.00 per copy (\$4.00/year).

"Model General Conditions" for use with letter agreements between the consulting geotechnical engineer and the client have been published by the Association of Soil and Foundation Engineers (ASFE). The document was developed by ASFE's business practices committee.

According to the business practices committee chairman, Donald L. Schreuder, the model is not intended for direct use. He said: "No firm should use a model without having it reviewed closely by an attorney. The conditions we address are those which affect most consulting geotechnical engineering firms, but we don't see them as universal; the manner in which they're addressed may not coincide with a firm's preferences." Nonetheless, the publication has been designed to permit direct use if a firm so desires.

Items addressed in ASFE's model general conditions document include right of entry, utilities, samples, invoices, ownership of documents, disputes standard of care, limitation of liability, insurance, termination, and assigns.

Copies of ASFE's "Model General Conditions" are available for \$3.50 each from ASFE, 8811 Coleville Road, Suite 225, Silver Spring, Maryland 20910. Remittance must accompany each order. Quantity prices are available on request.

ITEM OF INTEREST

(Reprinted from Sea Technology, April, 1980)

EPA Calls Univalve Effluent a No-No

George Lockwood devised a master plan to raise a seafood delicacy, the univalve abalone. His aquaculture venture was called Monterey Abalone Farms of California. It would raise the abalone in pens by pumping water from the ocean and discharging it back into the sea. For seven years he perfected the system.

But, according to the Chamber of Commerce of the United States, he found himself spending 70% of his time dealing with 42 federal, state, regional, county and municipal government agencies that directly influence his firm.

Like all sea creatures, the abalone for millions of years has eaten food, phytoplankton or algae in this case, and discharged its feces into the water. But this is an unsatisfactory situation for the Environmental Protection Agency. EPA ordered installation of a sewage treatment plant.

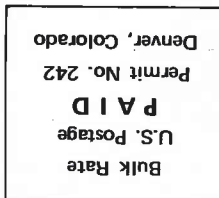
In addition, EPA tried to restrict the abalone raising to waters zoned for industrial use. But that would place the enterprise in waters too polluted for aquaculture and would not meet the pure food standards of another agency, the Food and Drug Administration.

Then the Occupational Safety and Health Administration (OSHA) got into the act, saying that standards developed for diving were to be followed. Those standards are designed for engineering and salvage diving in deep water. Lockwood's divers never go deeper than 12 meters in harvesting the abalone.

Thus Monterey Abalone Farms had to spend thousands of dollars defending itself against OSHA's harassment.

We pass this along as an example of how private enterprise can be stifled by working-to-the-rule over-
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regulation. Lockwood has not given up, but he recommends realistic changes in regulations and changes in the tax laws so small fledgling companies can secure enough capital to launch new enterprises.

NEW APPLICATION FORMS

Headquarters has been receiving applications for membership on out-of-date application forms. Please note that if you have application forms stating the initial dues and processing fee as \$35.00, please revise the form to read \$70.00 and also three (3) of the five (5) sponsors must be members of the Institute. Your help in this matter will be greatly appreciated.

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