

SAN DIEGO ASSOCIATION OF GEOLOGISTS

1998 EXECUTIVE COMMITTEE

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MEETING ANNOUNCEMENT

Wednesday, August 19, 1998

Place:

Bali Hai

2230 Shelter Island Drive Shelter Island, San Diego Phone: (619) 222-1181 Time:

6:00 - Social Hour

7:00 - Dinner 8:00 - Program

Dinner:

Kapahulu steak (12-ounce grilled New York steak), or "Island Sampler" (seared ahi, salmon, and mahi-mahi), vegetables, soup, salad, coffee, tea, dessert. Please specify meal preference when calling in for reservations.

Cost:

\$ 20.00 per person (Students \$ 10.00 with ID)

Reservations Required by 5:00 pm Monday, August 17. To reserve a space at this month's meeting, call the SDAG Reservation Line at Hargis + Associates, Inc.: (619) 454-0165, Extension 190. Contact Greg Cranham with any questions.

Speaker:

Timothy S. Boardman, California Division of Oil, Gas, and Geothermal Resources

Program:

Geothermal Resource Developments in the Imperial Valley: an Update

Tim Boardman, a California registered geologist, is the District Geothermal Engineer for the G2 district (Southern California). He is in charge of issuing geothermal drilling permits, well plugging and abandonments, monitoring injection projects, and maintaining production/injection data.

Mr. Boardman began his work for the Division in the Long Beach office, as a field engineer in the Oil and Gas Section. He later transferred to the Coalinga district. He assumed his current responsibilities in the Division's Imperial Valley Geothermal Section in 1988.

Upcoming 1998 Meetings:

September 19: SDAG/ASCE/SDSU Geology Annual Picnic

October 10-11: Field Trip: Geology and Geothermal Resources of the Imperial and Mexicali Valleys

November 18: Andy Rindell, Geologic Characterization of the Fisheries Building Landslide

December 16: Tom Deméré, San Diego Natural History Museum Paleontology Update

The Gordon Gastil Endowed Scholarship Fund:

If your career has benefited from your contact with Gordon Gastil or any of the SDSU Geology Department's faculty and staff, remember to give back to the people who helped you get where you are, and help make it possible for future students to benefit also. Donation of any amount to the Scholarship Fund are most welcome, and donations of \$500.00 or more will be recognized on a plaque to be placed in the remodeled Geology Building. Donations can be sent through SDAG, or contact Sharon Milligan, Geology Department Development Coordinator, at (619) 594-1937 for information.

1998 Corporate Sponsors:

Thanks to our Corporate Sponsors for 1998! Their generosity allows us to plan the annual field trip and produce field guides, to host the fall SDAG/SDSU picnic on Mission Bay, and to provide scholarship funds to local geology students. Our Corporate Sponsors are:

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Newsletter:

Please submit information, announcements, ads or suggestions to the Secretary, Greg Cranham, for inclusion in the next newsletter. Any news regarding upcoming events that may be of interest to the Association or news of your business can be submitted. Don't forget to advertise your business in the newsletter - it gets seen by a lot of potential clients - and it's free to corporate sponsors. The deadline for the next newsletter is August 28, 1998.

1998 SDAG FIELD TRIP UPDATE:

The theme of this year's trip, on the three-day weekend of October 9-12, is "Geology and Geothermal Resources of the Imperial and Mexicali Valleys". Tim Boardman's program at this month's meeting will provide a technical introduction to the subject and the field trip. Friday night will be a campout in the Imperial Valley. The tour of the Cerro Prieto (CP) geothermal plant and field, second largest in the world, is scheduled for 10 a.m. to 1 p.m. on Saturday, October 10. We will start at the CP Visitor Center about 25 miles south of Mexicali, viewing a video on geothermal development in Mexico and touring the exhibits and displays. We'll then tour the field, observe surface features including bubbling mudpots, the CP and Imperial fault traces, a recently erupted geyser, Volcano Lake, and the volcano. We'll then visit one of the three power plants which collectively produce 620 megawatts, enough to power 80% of Baja California (Norte) with ample reserves left to export to the San Diego/Imperial Valley region. On Saturday afternoon we'll observe geologic features en route to the Guadalupe Canyon campsite and hot springs. Guadalupe is on the southwest edge of Laguna Salada, about 30 miles south of Hwy. 2 via dirt road (2WD high

clearance vehicle is adequate.) Sandrday night will be a group meal offering another of SDAG's world famous field menus (other meals on your own). Sunday will be local explorations including a visit to Indian pictograph sites. Trip fee of about \$35 per person will cover the field guide, site fees, and Saturday night banquet. Sign-up forms will appear in the September newsletter. Carpooling is highly encouraged and will be coordinated via the sign-up process ("need ride/can offer ride"). Please contact Lowell Lindsay (numbers above) to volunteer help on the trip.

ANNOUNCEMENTS:

<u>Department of Geological Sciences</u>, San Diego State University Course Offering: GEOLOGY 652: MULTIPHASE FLOW

A course in multiphase flow will be offered at SDSU in the Fall 1998 semester. The course is scheduled for Tuesday evenings from 17:00 to 21:40. G.D. Beckett, a research associate in the Department of Geological Sciences and a hydrogeologic consultant, will instruct the course. Mr. Beckett's background is in direct application of multiphase flow to the problems of contaminant transport, cleanup, and most importantly, the relationship to health and resource risks. People may audit if time prohibits completion of the course work. However, the complexity of the subject suggests more will be gained with completion of the course work. For those people who wish to take the course but are not students, please contact the University Extended Studies Office at: (619) 594-5152.

The course will begin with a general overview of the importance of multiphase flow to environmental concerns and link the various ways in which understanding of multiphase flow can lead to better environmental solutions. The next phase of the course will go through the geology and physics of multiphase flow so that the student will be able to make specific calculations pertaining to the flow and distribution of water, non-aqueous phase liquids (NAPL), and vapor in soil. Important parameters will be defined along with methods and limitations to characterization. The final portion of the course will focus on application of multiphase theory to real site problems, with an emphasis on the relationships to risk. Multiphase modeling techniques will be discussed and simple, public domain models will be used to assist in solving problems.

The US Bureau of Land Management, California Desert District is soliciting nominations for five positions on its Advisory Council, for a 3-year term beginning January 1, 1999. The 15 Council members meet three to four times yearly to advise BLM officials on policies and programs concerning the management of 10 million acres of public land in the California desert. For information, contact the District Manager's public affairs staff at (909) 697-5217.

The California State Board of Registration for Geologists and Geophysicists may soon change its base examination for geologist registration. California may adopt the Association of State Boards of Geology (ASBOG) national exam, with a supplemental exam section specific to practice in California. These proposed changes would result also in changes to the exam fee structure. These and several other issues are under consideration in the Legislature as Senate Bill SB-1984. For information, see the Board of Registration Information Bulletin 98-03, or consult the State Senate's Web site at: http://www.sen.ca.gov.

<u>The 49th Highway Geology Symposium</u> will be held at Prescott, Arizona, on September 10-14, 1998. Papers will emphasize highway-related geological problems and geotechnical solutions. Contact Nick Priznar at the Arizona Department of Transportation: (602) 255-8089.

Arizona Hydrological Society will hold its 11th Annual Symposium on September 23-26, 1998, at the Downtown Holiday Inn, Tucson. The Symposium will offer a day of professional short courses, two days of technical sessions, and Saturday field trips to various locations of interest in southern Arizona. Invited papers deal with all aspects of hydrology and hydrogeology. Contact Betty Woodhouse at (520) 529-1141, or Howard Grahn at hgrahn@cyprus.com, or visit the Symposium web page: http://www.hgcinc.com/ahs-symposium98.

South Coast Geological Society (SCGS) The 1998 SCGS field trip is tentatively scheduled for October 17-18, and will be a raft trip from Hoover Dam to Willow Beach, followed by a tour of the Castle Mountain gold mine. Call SCGS President Sue Tanges at (619) 442-8022 for additional information.

Society of Economic Geologists and Geological Society of America announce a field trip to GOLD DEPOSITS OF NORTHERN SONORA on October 19-24, 1998. This trip will feature the newly discovered disseminated gold deposits along the general northwest trend between Santa Ana and Sonoyta (the "Altar Gold Belt") and other gold deposits of northwest Sonora, Mexico. Other gold deposits to be visited include: Santa Gertrudis, San Francisco, Cerro Colorado, La Herradura and La Choya, with host rocks ranging from Precambrian to Holocene. Field trip begins and ends in Tucson, Arizona. The cost of \$675.00 includes transportation, meals, accommodations (double occupancy), and field guidebook. Contact Kenneth Clark at Department of Geological Sciences, University of Texas, El Paso, 79968. Phone: (915) 747-5843; fax: (915) 747-5073; e-mail: clark@geo.utep.edu.

A large turnout for this year's AAPG-SEPM luncheon presentation of the Dibblee Medal on May 1 in Ventura at the Doubletree Inn was a warm and entertaining tribute to Dr. Clarence Hall.

"Remove geologic maps and the making of geologic maps from geology and you remove the essence of geology."

Professor Clarence A. Hall, Professor and Dean Emeritus at the University of California, Los Angeles, is the 1998 recipient of the Dibblee Medal presented May 1, 1998, at the Dibblee Luncheon held at the AAPG-SEPM meeting in Ventura, California. Dr. John Crowell of the University of California, Santa Barbara, in his remarks as citationist stated that Dr. Hall in his prolific career has "made outstanding contributions to geology through geological mapping and the interpretation of his maps", for he is "a master in the difficult science and art of geological mapping which demonstrates regional significance". In highlighting Hall's career, Crowell pointed out that Hall had produced more than a dozen quadrangle-sized maps in the west central Coast Ranges and the White-Inyo Mountains of California, and has mapped along the North Pyrenean fault in southern France. His careful mapping and synthesis of complex country in coastal California from the Monterey Bay region to the Transverse Ranges resulted in "HALLmark" papers supporting large-scale strike slip on some of California's major faults and enabled identification of the Southern California allochthon.

In selecting "influential people in his career and interest in making and interpreting geologic maps", Hall singled out Bob Compton from his alma mater, Stanford, where he obtained his BS (1952), MS (1953) and Ph.D. (1956) with a dissertation on the Pleasanton area, southeast of San Francisco, for the "joy he [Compton] received from helping his students to appreciate what it was that he was seeing and deciphering". At UCLA Hall chose E.L.(Jerry) Winterer, now at Scripps and the University of California, San Diego, who introduced him to the Tick Canyon-Vasquez Rocks area, "one of the finest one-square miles of geology that I know of in North America for teaching students how to map and interpret their mapping"; and John Crowell, now at UCSB "when chairmen and managers exercised more authority", for saying, "'Clarence, you are going to teach the UCLA summer field course"; and his colleague, Gary Ernst, now at Stanford, "the only person I have ever known who really enjoyed mapping blebs and blobs in the Franciscan Complex".

In emphasizing not only his love of geologic mapping and interpretation, Hall shared his philosophy of geologic mapping, for "The field is where geologic problems lie waiting to be found, rethought, or restudied. A geologic map is the essential foundation for studying geologic problems. Yet the useful scientific lifetime of a geologic map is rarely more than 25 to 50 years because new paradigms or new information and thought alter the interpretation of geologic features or cause new elements of the geology to be recognized for the first time, as examples, transform and detachment faults."

Hall went on to conclude, "Remove geologic maps and the making of geologic maps from geology and you remove the essence of geology." Hall's great love of geologic mapping was illustrated by his paraphrasing from Miguel de Cervantes' character Don Quixote, "Journey over all of the Earth in a [geologic] map, without the expense and fatigue of traveling, without suffering the inconveniences. of heat, cold, hunger and thirst"; journey back through time; and journey into the interior of the Earth.

Previous recipients of the Dibblee Medal are Lehigh Hintze (1994), Peter Rowley (1995), Jack Vedder (1996), and Parke Snavely, Jr. (1997). To learn more about the Thomas W. Dibblee Geologic Foundation contact the Web Page at http://dibblee.geol.ucsb.edu/. If you have additional questions, please contact Dorothy L. Stout, Publicist, Dibblee Foundation (gaea@deltanet.com), or phone: (714) 826 2220 x 153.

Check out the SDAG website at http://www.znet.com/~sdag. Our website manager, Carolyn Glockhoff, can create a link from any Corporate Sponsor's listing on the SDAG website to its company website. Also, please send the URLs of your favorite geology sites to Carolyn (carolion@aznet.net) for listing on the Geologic Links page.

Positions Available:

- ENGINEERING GEOLOGIST: Cotton, Shires & Associates seeks a Certified Engineering Geologist with minimum 10 years professional experience. Master's degree in geology preferred. Position requires strong technical, writing and business development skills and experience in the Southern California area. Excellent salary and benefits package. EOE. Mail resume in confidence to: Cotton, Shires & Associates, 5245 Avenida Encinas, Suite A, Carlsbad, CA 92008; Attn.: Stan Helenschmidt.
- STAFF LEVEL GEOLOGIST: Immediate environmental geologist opening with experience in Phase I and II site assessments, remediation, and USTs. Excellent office opportunity for the qualified individual. 40-hour HAZWOPER certification required. Contact Aaron by phone at: (619) 503-1035.
- SOIL TECHNICIAN / SURVEYOR: Immediate openings for surveyors (chainman, instrumentman, and party chief) and/or soil techs with nuclear gauge certification. Contact Aaron by phone at: (619) 503-1035.

Position Wanted:

Available after August 15 for project, temporary or part-time work. BS & MS in geology; 25+ years experience supervising geologic drilling/sampling projects; recent experience teaching college-level geology and oceanography; good written and oral communications skills; fit and amenable to field work. Contact Glen Foss at (760) 740-5915; gnfoss@home.com.

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