

SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG MEETING ANNOUNCEMENT

WEDNESDAY, FEBRUARY 17th, 2010

Photo Analysis Techniques for the La Jolla Landslide

Presented by

Woodrow (Woody) L. Higdon

Where: Catalina Room (southern end of MVCC) **SEE MAP**
Marina Village Conference Center
1936 Quivira Way, San Diego, CA 92109

When: 5:30 pm – Social Hour
6:30 pm – Dinner
7:15 pm – Program

Directions: FROM INTERSTATE 5: Take the SEA WORLD DRIVE exit. From SEA WORLD DRIVE, take WEST MISSION BAY DRIVE on your right. When you see the large green sign that says QUIVIRA ROAD, get in the farthest left of the two left turn lanes. Turn left, go one very short block and turn left again. Drive about one half mile and MARINA VILLAGE will be on your right.

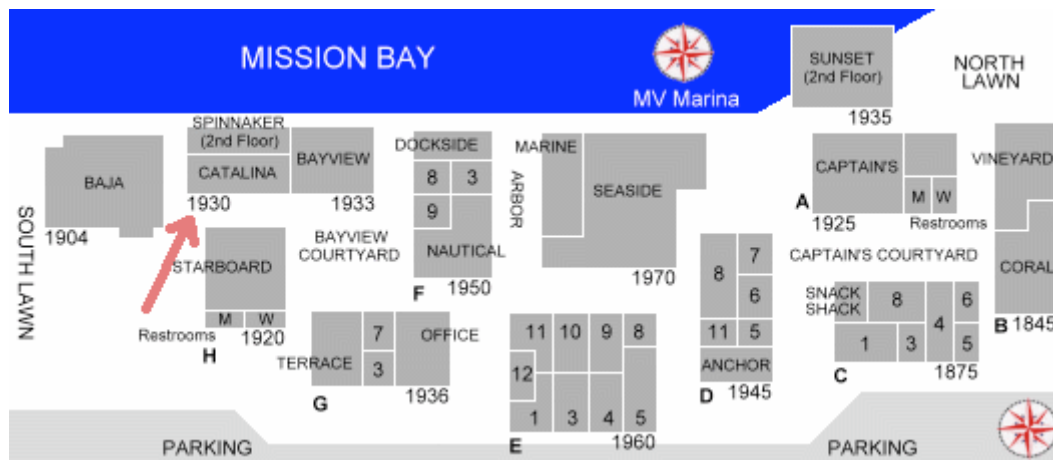
FROM INTERSTATE 8: Take the WEST MISSION BAY DRIVE exit to the right. You will be on INGRAHAM STREET for a short distance from which you will take the next exit marked WEST MISSION BAY DRIVE on your right. When you see the large green sign that says QUIVIRA ROAD, get in the farthest left of the two left turn lanes. Turn left, go one very short block and turn left again. Drive about one half mile and MARINA VILLAGE will be on your right.

Dinner: Italian Buffet. Beverage station. Dessert. Cash bar.

Cost: \$30 per person, \$5 discount for members, STUDENTS: \$20. Add \$5 if you did not make a reservation

Reservations: Make your reservation **online** at www.sandiegogeologists.org **no later than noon, Monday, February 15th.**

**RESERVATIONS CANNOT BE ACCEPTED AFTER MONDAY AT 12 NOON.
IF YOU DO NOT MAKE A RESERVATION, WE CANNOT GUARANTEE YOU A MEAL.**



2010 SDAG MEETING SCHEDULE - Mark your Calendars!

Meetings are usually on the 3rd Wednesday of the month but may change to accommodate speaker and meeting place schedules. Check here for updates!

March 17	Zhen Li, Ph.D., USGS Hydrologist (at Emiliano's, Mission Gorge Rd.)
April 21	TBA
May 19	TBA

2010 EXECUTIVE COMMITTEE

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SPEAKER BIO

Woodrow (Woody) L. Higdon

Woodrow L. Higdon obtained a degree with a major in Geology with a minor in photography from Cal State University Long Beach in 1975, and worked for Leighton and Associates in Irvine as a staff geologist until 1979. Woody then formed his own company, Geo-Tech Imagery, which has specialized in Land Use Imagery for the past thirty years. He completed his post-graduate studies in remote sensing imagery with Harvard University in 1981. Woody plans, generates, analyses, and reproduces all types of images (aerial, ground, underwater photography, and video) for all aspects of land use from acquisition through investigation, construction, litigation, and marketing, to final sale documentation.

Woody is a former Recon Marine with specialized training in Airphoto Interpretation, Combat Photography, and Underwater Photography from Naval Diving Schools. Upon discharge from the Marines he became a police officer for the cities of Santa Ana and Garden Grove, California, which included forensic photography as part of his patrol duties. Photography and video support skills include Naval Diving School certifications, PADI Diving Instructor Certification, and Helicopter Pilot certifications with more than 30 years of experience.

In addition, Woody is a longtime member and supporter of the SDAG.

SPEAKER ABSTRACT

“Photo Analysis Techniques for the La Jolla Landslide”

An integrated approach for the use of GIS and digital aerial photography, current & historic, on the Soledad Mountain landslides in La Jolla (and there are more than one). What you need to know to get the most out of obtaining and using digital air photos for analysis and use in the GIS world to enhance the interpretation, information, and multiple uses of aerial photographs will be presented.

PRESIDENTS CORNER, FEBRUARY 2010

Greetings! Our speaker for this short month of the year, Woodrow (Woody) Higdon, is well known to many of us, for his work in geo-related photography and imagery. Woody's company, Geo-Tech Imagery, specializes in all sorts of imagery, including underwater, for all types of land use aspects. His company maintains thousands of images including false color infrared and side scan radar in a MapInfo GIS catalogued library. We are proud to have Woody and his special expertise in our organization.

On Saturday, February 20, SDAG will be offering a One Stop Wonder field trip to Torrey Pines State Natural Reserve, in collaboration with the SDSU AAPG, who will be the actual sponsoring organization. The trip will be guided by Pat Abbott. Expected length of the trip will be approximately 2-3 hours (high tide at 1:00). Details are below and on the SDAG website.

Members may be interested to know that the American Association for the Advancement of Science (AAAS) will be having its 2010 annual meeting on Feb 18-22 in San Diego at the Marriott Hotel. Check their website for details.

Please don't forget to complete your membership forms for the year.

Have a great February everyone.

Bryan

2009 and 2010 SPONSORS - THANK YOU!!

Note the new nomenclature for 2010: Sponsors, Corporate Sponsors, and Patrons provide a significant portion of SDGS's and SDAG's operating and scholarship budgets. By making your payments to SDGS (a 501(c)3 public benefit nonprofit educational corporation) you may be able to claim a tax deduction. In addition to monthly recognition for your contribution, you are entitled to additional benefits as listed on the Sponsorship Form included in this newsletter.

Sponsors (continued):

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A note from the secretary:

2010 membership dues are due! If you haven't done so, the membership form is attached at the end of the newsletter for submittal. Please let me know if you paid for a sponsorship and are not listed. Also, please let me know of any job openings or upcoming events of interest to the Earth science community. E-mail me at: todd@wirths.com. Todd

ANNOUNCEMENTS

February 20 One Stop Wonder

The first one-stop-wonder (OSW) field trip for 2010 is here and scheduled! Sponsored by SDSU's student chapter of the American Association of Petroleum Geologists (AAPG) and guided by Prof. Pat Abbott, this OSW takes us to the Torrey Pines glider port and down the trail to Black's Beach where:

- (1) We can inspect the oldest rocks: rhyolitic conglomerate hammered by tropical weathering (LPTM);
- (2) Then walk briskly without stopping to the north side of Bathtub Rock for a quick look at tidal flat / lagoonal facies;
- (3) Then walk up the cliff trail for ~75 m to be surrounded by the submarine canyon wall;
- (4) Finally return to the beach to inspect the submarine canyon fill at a number of stops walking south back to Black's Beach, where:
- (5) We will draw some 3D & 4D diagrams in the sand to expand everyone's mind above the constrictions placed upon it by the Law of Superposition.

In addition, Prof. Dave Kimbrough to join us and explain the thermochronologic data on feldspar grains from the cliffs we will walk by. Of course, ALL THIS TALKING WILL BE ON THE WAY BACK.

Some pertinent data:

- The meeting place is at the north end of the glider port (see image below) and will begin at 8:30 AM sharp on Saturday, February 20.
- We will walk BRISKLY WITHOUT STOPPING to the north along the beach.

- Expected length: 2-3 hours (high tide at 1:09 pm, 2.4 ft).



SDGS/SDAG

As many of you are aware, the San Diego Geological Society (SDGS) was formed early this year as an official non-profit 501(c)3 corporation, and SDAG is now an organization under this corporation. The reasons for doing this were many and they are spelled out in an informational sheet, the Business Plan of SDGS. The officers of SDGS should be very familiar to you, as they are all past presidents of SDAG. For those of you that would like to read more about SDGS and what it means to SDAG, check out the informational page on the website. Also check out the website www.sandiegogeologicalsociety.org.

Another USGS/San Diego Deep Multiple-Depth Monitoring Well

Research Hydrologist Wes Danskin says the USGS just started installing another deep multiple-depth monitoring well. This will be the first in a series of updates. The goal is to drill to about 1800 feet depth, collect cuttings and cores, and install 5 to 6 piezometers at different depths. Follow-up work will include analysis of the cutting and cores, collection of water-quality data, and outfitting the site to collect real-time ground-water levels and transmit them to the internet. These data along with all other well information are displayed on the project website <http://ca.water.usgs.gov/sandiego>.

This well, SDCC, is the 9th installed as part of this project. "We will be drilling during the entire month of February. We drill 7 am to 7 pm, 7 days a week" says Wes. The well is located at the southeast corner of the San Diego Country Club, near the corner of West Naples Street and Hilltop Drive in Chula Vista. The well is named for its location (SDCC). Wes says if you would like to visit the site, contact him at (858) 663-6832 or wdanskin@gmail.com.

Some background: The USGS San Diego Hydrogeology project has been collecting geologic and hydrologic data since 2001 with the goal of understanding the coastal groundwater system so that local agencies can use it to provide additional local water resources. This well will help provide the next step in this quest. In particular, it will provide the data needed for various models: geologic, rainfall-runoff, groundwater flow, geochemical, and water management. These models help synthesize the data and interpretations, identify inconsistencies, visualize complex data and concepts, and predict the result of possible human activities. Below is a USGS briefing from 2008 outlining wells that were constructed in Otay Valley.

Prepared in cooperation with the Sweetwater Authority, Otay Water District, and City of San Diego

Installation of multiple-depth monitoring wells in Otay River Valley

Hydrogeologic investigations of the San Diego area, California

Summary

Multiple-depth monitoring wells provide critically important data to aid in understanding complex hydrogeology, such as that found in the coastal San Diego area. Because no comprehensive study of ground-water resources has been done for the San Diego area, a major element of the present USGS study is to install multiple-depth wells in selected areas of four coastal river basins.

During 2008, two wells will be installed in the Otay River Valley. Each well will be about 1,500 feet deep, and will have five separate two-inch PVC piezometers, installed to selected depths. These piezometers will be monitored for ground-water levels and sampled for ground-water quality. The well sites will be permanent installations and will provide data for decades.

Otay Well Sites

The United States Geological Survey (USGS), in cooperation with the Otay Water District and the Sweetwater Authority, will be installing two 1,500-foot-deep monitoring wells along the Otay River (fig. 1). These sites were chosen to optimally identify geologic units, integrate with data from other wells, and ensure long-term data collection.

Results from the drilling will help define the quantity and quality of ground water in the coastal San Diego area. The east well site will identify the source and quantity of recharge to the Otay area; the west well site will monitor any seawater intrusion. If sufficient ground water is identified, it may provide an additional local resource, possibly via desalination.

Well Drilling and Construction

Drilling for each well will take about four weeks. The hours of operation each day, including weekends, are 7 am to 7 pm. During the first three weeks, noise

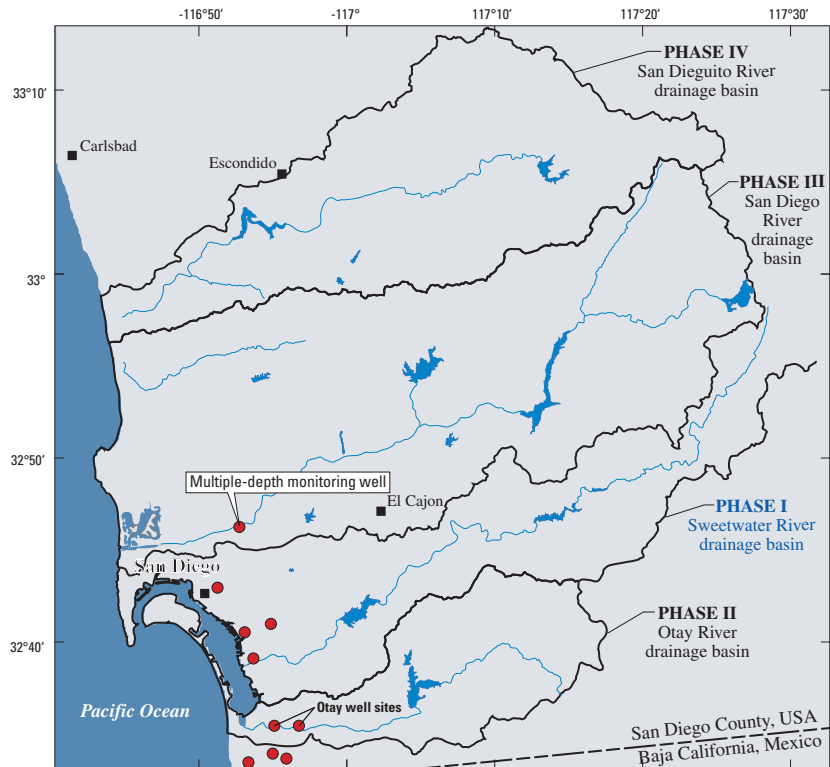


Figure 1. Location of multiple-depth monitoring wells, San Diego area, California.

levels will be typical of those associated with heavy equipment (fig. 2). During the final week, noise will be reduced as the well is constructed and the site is restored to its original condition. Subsequent well development and water-quality sampling will be relatively unobtrusive. All data will be available on the project website.

Contacts

For all questions concerning the well site or drilling, please contact:

Sweetwater Authority, Jack Adam,
619-420-1413, jadam@sweetwater.org
or

USGS site supervisor Rhett Everett,
Hydrologist, 619-225-6174, everett@usgs.gov.

For questions concerning the USGS hydrogeologic study of the San Diego area, please contact:

USGS Project Chief, Wes Danskin,
Research Hydrologist, 619-225-6132, wdanskin@usgs.gov, or

refer to the project website,

<http://ca.water.usgs.gov/sandiego>

Figure 2. Typical drill rig used to construct a multiple-depth monitoring well.

Note from our SDAG Editor-In-Chief:

From now on please send all correspondence related to SDAG editing to Carole Ziegler via SDAGeditor@gmail.com. This includes any manuscripts, editing questions, etc.

Any SDAG related activities may also be sent to this address for Carole Ziegler. Please send all other correspondence not related to SDAG to Cactus12Carole@gmail.com

Please note that Carole is spelled with an "e". Nice to be unique, but a pain when doing things like getting people to remember how to spell your name and, of course, Ziegler is worse.

Thanks, Carole Z.



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SEEKING JOB OPPORTUNITIES!

Daniel Meeh: I am interested in obtaining an entry level position in a Geology related field. I received my BS degree in Geology from Wheaton College and I am looking forward to putting my knowledge to practical use. I am also a dedicated, driven individual who desires excellence in everything that I do. Not only am I well educated, but I am willing to learn a job and give above and beyond what is expected. I am confident that I can be a great asset to any organization. I appreciate any help you can offer and I would very much like to discuss my qualifications with you in person. I can be reached at 281-701-0826 or by e-mail at Daniel.Meeh@my.wheaton.edu.

Jake Lippman: I am looking for an entry-level position as a geologist. In particular, I am interested in hazard assessment (seismic, landslide, flooding, etc.). I am a recent graduate with a BS in Geology from UC Davis and an MA in Climate from Columbia. Please e-mail me with any employment opportunities at jdl2129@columbia.edu or call (415) 672-0918. Thank you very much!

Patrick Rentz: I am currently a graduate student at Scripps Institute of Oceanography, obtaining my M.S. in Earth Science. My defense and graduation are planned for the near future. I am interested in employment opportunities in the San Diego through Riverside areas. For contact information, resume, and details on my research, please feel free to visit my website www.patrentz.com. I look forward to hearing from you!

Jared Warner: He was our student scholarship winner last year, who made his fine presentation at our March meeting. He wrote in a recent E-mail: "I just recently finished up my internship with Occidental Petroleum up in Bakersfield and found it rather enjoyable. Now it's off to races with applying to jobs!" He can be contacted at jared.j.warner@gmail.com or at (661) 972-5332.

JOB OPENINGS!

Brian F. Smith and Associates (BFSA) has immediate openings for several qualified individuals including **Paleontological Monitors** and **Project Paleontologists** for projects in San Diego, Riverside, and San Bernardino Counties. Positions require a B.A. or M.A. in geology, paleontology, or a related field, and field experience in southern California. Current City of San Diego Paleontological certification preferred, or must be able to become certified immediately. Compensation will depend upon qualifications and ability. Please send or fax a current resume, or vita and references to resumes@bfsa-ca.com or fax to 858-679-9896.




Brian F. Smith and Associates (www.bfsa-ca.com) offers consulting services pertaining to all aspects of paleontology, archaeology, biology, history, air, traffic, noise and investigations throughout the southwest, primarily in southern California. The combined experience of the principal consultants and associates represents over 100

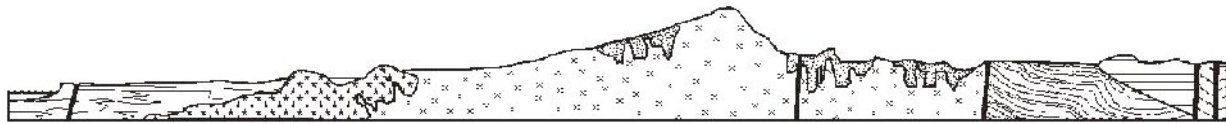
years of involvement in the study of the history and prehistory of this region. BFSAs capabilities are highlighted by the range of current projects, including construction monitoring, data recovery mitigation programs, historical structure assessments, surveys and evaluations for both the California Environmental Quality Act (CEQA) and Section 106 of National Historic Preservation Act (NHPA).



Types of Rocks

Rocks are classified into three types according to whether they come from volcanic magda, sediments deposited on the ocean floor, or your shoe.

appearance			
type	IGNOMINIOUS	SEMENTARY	METAPHORIC
examples	grabit feldman quarts hornswoggie appetite olivetti garbo	flent chark snale slimestone sodomite limonade travestine	scheiss gnash slake hornrim garnish marvel anthroicide



SAN DIEGO ASSOCIATION OF GEOLOGISTS

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NOTE: Your membership dues include email delivery of the monthly newsletter.

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(check choice)

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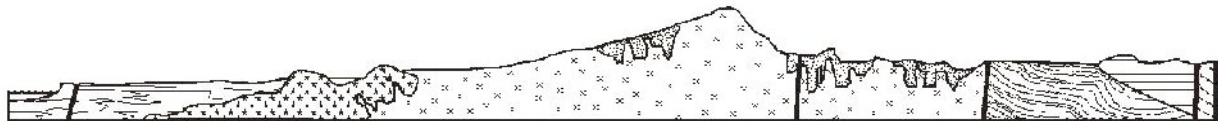
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(In addition to the above, you will receive a commemorative plaque in recognition for your most generous support of the organization)

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*Donations may also be made
at monthly meetings.
Thank you!*