

SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG MEETING ANNOUNCEMENT WEDNESDAY, JANUARY 21st, 2009

Geology and Hydrogeology of Coastal San Diego: implications of preliminary data from USGS multi-depth monitoring wells

Presented by

Michael S. O'Hare, USGS, SDSU MS Candidate

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
7:00 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.

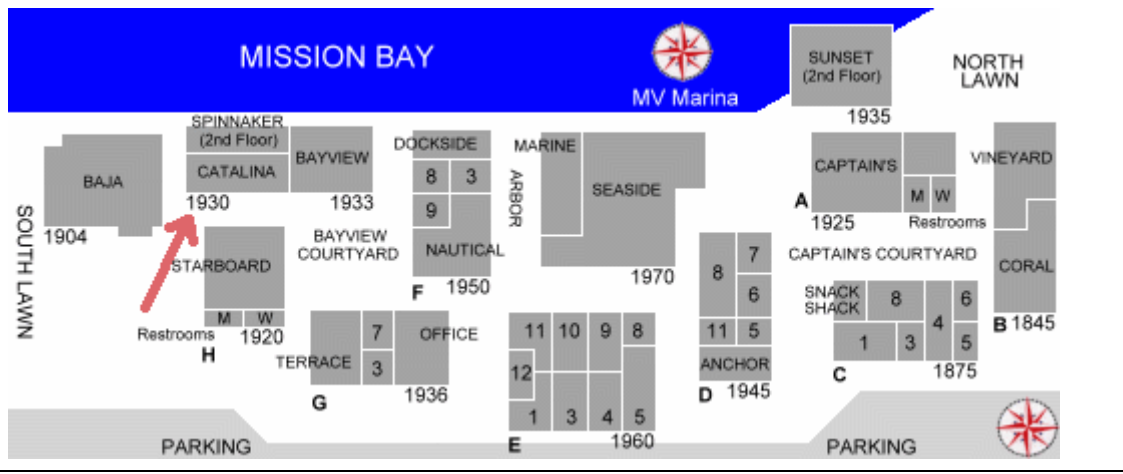
FROM INTERSTATE 8: Take the WEST MISSION BAY DRIVE exit to the right. You will be on INGRAHAM STREET for a short distance from which you will take the next exit marked WEST MISSION BAY DRIVE on your right. When you see the large green sign that says QUIVIRA ROAD, get in the farthest left of the two left 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: BBQ beef, grilled chicken, grilled vegetables, oven roasted potatoes, baked beans, Caesar salad, coffee and tea (hot and cold), and cookies and brownies for 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, January 19th**.

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



2009 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!

February 18	TBD
March 18	TBD
April 21	TBD

2009 EXECUTIVE COMMITTEE

PRESIDENT – Scott Snyder; *Ninyo & Moore*; Ph: (858) 576-1000; sdag2006@prodigy.net

VICE PRESIDENT – Bryan Miller-Hicks; *Cuyamaca College*; geobry@aol.com ; bryanmillerhicks@gmail.com

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SPEAKER BIO

Michael S. O'Hare, USGS, SDSU MS Candidate

Originally from Texas, Mike is currently pursuing (sixth semester) a Master's in Hydrogeology from San Diego State University, working with faculty advisors, Dr. Kathy Thorbjarnarson and Dr. Tom Rockwell. He received his undergraduate degree (BSE in Civil Engineering, Geotech concentration) from University of Texas at Austin in 1996. Following his undergraduate degree, he spent ten years on active duty in the US Navy to fulfill the terms of his ROTC scholarship. Most of that time was spent in North Island San Diego, onboard various carriers at sea, and, for two and a half years, in Bahrain. He is currently employed as a Hydrologist at USGS Water Resources Division in the San Diego Projects office, while remaining active in the US Navy Reserves.

ABSTRACT

“Geology and Hydrogeology of Coastal San Diego: implications of preliminary data from USGS multi-depth monitoring wells”

The presentation will discuss the current state of the USGS coastal San Diego regional groundwater study, including: locations of USGS multi-depth wells; hydrographs and water levels; and rough cross sections of regional stratigraphy in and around the major drainage basins of southern San Diego County (Tijuana, Otay, Sweetwater and San Diego Rivers). It will also contain preliminary data collected from drill cuttings, cores and various laboratory analyses conducted in characterizing the coastal sediments and aquifer materials.

PRESIDENTS CORNER, JANUARY 2009

Happy New Year to the SDAG membership!

I am hoping to see another great year for SDAG in 2009. In 2008 we had many great meetings and interesting talks, some one stop wonders, a successful field trip, and we formed the San Diego Geological Society (SDGS) in order to incorporate our group, obtain non-profit status, and allow us to do more as an organization toward our goal of bringing the science of geology to the public. There are many people to thank for this huge accomplishment that was started was back in the last millennium (around the early 1970s to be vague about it), not the least of which is Dave Bloom, our tireless past president. Thanks to Dave and all the others who worked so hard to see this through. We have a great field trip that is coming together courtesy of Bryan Miller-Hicks our new SDAG Vice President, Monte Marshall, and Brad Erskine. The field trip will be held in the San Jacinto Santa Rosa mountains area, in a similar area where the Friday portion of last year's field trip was held.

If you have anyone that you know of that might be interested in presenting a talk to SDAG, please let me know.

Finally, Thanks for Sarah Gray who did a great job with her 4 year term as Treasurer, Vice President, and President!

Scott Snyder - SDAG President

ANNOUNCEMENTS

STUDENT SCHOLARSHIP WINNER

Scott received this message from Jared Warner, the awardee:

I wanted to thank you and everyone at SDAG for presenting me with this year's SDAG scholarship. It is truly an honor to represent not only the geology department but also San Diego State University.

I look forward to meeting you all and presenting my research within the upcoming months.

Thank you again and happy holidays.

Jared Warner

Master's Student
Department of Geological Sciences
San Diego State University

Rocks with Provenance Needed for a Reference Collection for Typing and Sourcing San Diego Co. Artifacts

The San Diego Archaeological Center and local archaeologists need a county-wide reference collection of local rocks from outcrops. The collection will be an important resource for archaeologists involved in typing and sourcing stone artifacts from the San Diego area.

Norrie Robbins, adjunct faculty in the Dept. of Geological Sciences at SDSU, is spearheading this volunteer effort. She notes that geologists use a much wider variety of descriptors for rocks than do archaeologists. One of the objectives of this project is to cross-reference archaeological categories with geological ones to help develop a mutually understandable terminology and to improve sourcing. Rock specimens in the reference collection will be identified by spatial coordinates and both geological and archaeological descriptors.

Please contact Norrie (nrobbins@geology.sdsu.edu, 619-303-9095) with any questions and to arrange pick up of specimens. Specimens may also be placed in her mailbox at SDSU or dropped off at the Center (please indicate Attention: Rebecca Nathan). In addition, Dr. Robbins or Dr. Tim Gross will be available at most meetings of the San Diego County Archaeological Society (SDCAS) and San Diego Association of Geologists (SDAG) to accept specimens. Building the reference collection is a long-term project. There is no time limit for making your contributions.

2009 CORPORATE SPONSORS - THANK YOU!!

Corporate sponsors provide a significant portion of SDAG's operating and scholarship budget. In addition to monthly recognition for your contribution, you are entitled to a free Internet link from [SDAG's Website](#). We also list Corporate Sponsors in our annual SDAG Field Trip Volume. ***Please consider SDAG sponsorship in 2009!***

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Pat Brooks	
Mike Palmer	Hargis and Associates, Inc.

A note from the interim secretary:

Just when you thought it was safe to go back into the ocean...

I'm back, but for how long, no one seems to know. Please let me know of any job openings or upcoming events of interest to the Earth science community. E-mail is best: sdag2009@geology-quy.com is an address I've set up. Also, please let me know if any of these job announcements contained here are stale.

Phil

JOB OPENINGS!

PART-TIME GEOLOGY/EARTH SCIENCE INSTRUCTORS, PALOMAR COLLEGE

Beginning with the Spring, 2009 semester, the Earth, Space & Aviation Sciences Department at **Palomar College** will have several openings for part-time instructors in Physical Geology, Historical Geology and Introductory Earth Sciences. Most of the course offerings will be in the evenings or late afternoons or on Fridays.

Applicants should have a Master's Degree in Geology or a closely related field. Persons who are nearing completion of their Master's Degrees are also encouraged to apply. We are particularly interested in applicants who are strongly field-oriented and are willing to develop and lead single- and multi-day field trips throughout southern California and the Southwest.

Please forward a letter of interest with a brief description of your background, experience and teaching interests to:

Steve Spear
Geology Program
Department of Earth, Space & Aviation Sciences
Palomar College
1140 W. Mission Road
San Marcos, CA 92069
sspear@palomar.edu
(760) 744-1150, ext. 2513

URS Corporation, ranked number one on Engineering News-Record's list of the Top 500 Design Firms for Seventh consecutive year is a leading provider of planning, design, systems engineering and integration, technology development, program and construction management, and operations and maintenance services to federal, state and local government agencies in the U.S., Fortune 500 corporations worldwide and government clients in Europe and Asia/Pacific. We're currently looking for a Geologist in our San Diego, CA office.

URS18093 – Geologist

Responsibilities: Assist Project Manager in conducting Phase I and Phase II Site Assessments and oversight of remedial programs. Ability to successfully complete the following:

Manage small projects from start to finish with limited supervision, familiar with a variety of invasive drilling/subsurface investigation techniques, log borings in accordance with USCS, install monitoring wells in accordance with DEH guidelines, provide fieldwork oversight of subcontractors, prepare work plans, familiar with laboratory analyses and waste characterization criteria, familiar with human health screening criteria, interpretation of geologic and chemical data for surface water, soil, soil gas and groundwater and to assist with preparation of reports summarizing field procedures and results.

Requirements: Minimum Bachelors Degree with 2+ years of experience in the environmental consulting industry or related business. Good written and verbal communication skills, able to work independently and familiar with local regulatory guidelines (DEH, RWQCB, DTSC). Valid drivers license is required due to some travel to/from sites as needed.

URS Corporation is an Equal Opportunity Employer and strongly supports diversity in our workforce. M/F/V/D. We offer competitive salaries and a comprehensive benefits package. For immediate consideration please submit your resume online at www.urscorp.com and refer to **Requisition # URS18093** or send your resume to mike_blackmore@urscorp.com

Tetra Tech EC, a world leader in environmental engineering and consulting, is seeking an **Entry Level Geologist in our San Diego, CA office.**

The qualified candidate will have a Bachelor of Science degree in Geology, hydrogeology, or related field with 0-3 years experience. Primary responsibility will be to assist senior personnel in the planning and execution of projects. The chosen candidate will learn a variety of field sampling and drilling methods for site investigation and remediation projects and perform the acquisition of samples (soil and groundwater) in the field. Good analytical and writing skills required. Up to 50% of time may be in the field on project sites mostly in the Bay area.

Tetra Tech EC, Inc. is an Equal Opportunity Employer and we value team-oriented workplace and workforce diversity. We invite resumes from all interested parties including women, minorities, veterans and persons with disabilities. Tetra Tech offers their employees a comprehensive compensation package and the opportunity to work on large scale government projects.

Candidates who are interested in joining our dynamic team should submit a resume to Tetra Tech EC at northwest.web@tteci.com. Resumes should include salary requirements. Please visit our website at www.tteci.com or www.tetratech.com to see the array of services that we provide and exciting projects we are currently working on.

TN & Associates, Inc. specializes in environmental services, natural resources, infrastructure engineering, and construction services. Our San Diego office is currently looking to fill the following positions:

Staff Geologist: Geologist to perform office and field assignments for environmental site assessment and remediation projects. Position will involve soil borings, monitoring well installations, soil and water sampling, historical research investigations, data management, construction documentation and construction QA/QC, and report writing. Ability to adapt to both office and field environments a must. OSHA 40-hour training a plus. Periodic travel is required. **Project Geologist:** Geologist with 3 to 7 years experience required in conducting all aspects of field investigations including limited site assessments, multi-task remedial investigations and remedial actions with a strong emphasis in technical writing skills. The ideal candidate will have experience in data analysis and reporting. PG registration and OSHA 40-hour training a plus. Work will entail some fieldwork and travel, mainly within California. Experience with government projects (DOD, USACE, AFCEE, Navy and USEPA) landfills and stormwater engineering/compliance a plus.

We offer a competitive salary, benefits package and friendly working environment. Equal Opportunity Employer. Please mail or fax your resume and letter of interest to: T N & Associates, Inc., 2247 San Diego Avenue, Suite 238, San Diego CA 92110, fax 619-291-8100.

CDM is looking for a fulltime **Engineering Geologist** to join its geotechnical division in the West Coast. The successful candidate will be responsible for the following:

- Conduct geologic field investigations on a wide range of public and private projects involving seismic evaluations, landslides, and subsurface soil, rock and water conditions for dams, buildings, water and waste water treatment facilities, transportation projects and remedial actions.
- Perform and supervise geotechnical and geo-environmental analysis, design, and construction engineering services.
- Provide project management for geotechnical and geo-environmental projects including the preparation of scope, schedules and budgets.
- Contribute to business development and proposal efforts and prepare technical reports.
- **Requirements:** Demonstrate the ability to perform quality-engineering geology services while adhering to project scope, budget, and schedule.
- Must have at least 10 years experience in geological engineering.
- M.S. in engineering geology or related discipline required
- Must be a CA Certified Engineering Geologist (CEG)
- Major project experience involving seismic and fault investigation is a must.
- OSHA 40-hour HAZWOPER training desirable.
- Excellent written and verbal communication skills required.

CDM has consistently earned industry recognition for our innovative project solutions. Recognition by respected professional organizations, such as the American Academy of Environmental Engineers, the American Council of Engineering Companies, and the Design-Build Institute of America, is a testament to CDM's delivery of exceptional service and the right total solutions for each client's needs. We are an equal opportunity employer. Qualified candidates can send resumes to mcshefferyj@cdm.com.

Principal Hydrogeologist

Looking to make a real impact at work? Ready to "Never be bored"? Natural born leader? Work for an industry leader.....Join MACTEC.

MACTEC Engineering and Consulting, Inc. is a leading consulting firm providing engineering, environmental and remedial construction services to public and private clients worldwide. Operating with over 3,000 employees in 100 offices nationwide with a global reach, MACTEC is currently ranked 31st among *Engineering News-Record's* top 500 design firms.

MACTEC's Irvine office is in search of a **Principal Hydrogeologist** to lead the geological and hydrogeological efforts, manage a team of committed technical staff members and advance business development opportunities within a variety of clients and projects. This is an excellent opportunity for the "natural born leader" who wants to utilize their technical and leadership skills!

Scope of Role:

1. Provides hydrogeological guidance and support for soil and groundwater remediation.
2. Develops and presents new approaches and services within environmental consulting market
3. Assumes project management roles and leads site investigation efforts
4. Conducts fate and transport modeling, pump tests and capture zone analysis
5. Develops site specific hydrogeological model.
6. Prepares and deliver technical reports, communications and presentations.

Key Qualifications:

1. BS/MS/PhD (Geology/Hydrogeology)
2. Min 10 years experience, must have consulting experience as well

3. Must have groundwater modeling experience, CA certification preferred
4. PG, CHG registration in CA required
5. Excellent communication and leadership skills

MACTEC's benefit offerings include health, dental, vision, short and long term disability, life insurance, paid vacation, sick, holidays, a 401(k) match and tuition reimbursement. More information can be found on our website at

www.MACTEC.com

Interested?

Please apply today via our website: www.MACTEC.com/ - click on Careers / CA- Irvine

ATTORNEYS in San Diego are seeking a candidate to assist their firm with a water case. Ideally, the candidate would be knowledgeable in the areas of groundwater, groundwater basins and other related water issues. Hourly compensation is offered. A candidate is needed immediately.

David M. Watson, Esq.
Krause Kalfayan Benink & Slavens
625 Broadway, Suite 635
San Diego, CA 92101
Phone: 619-232-0331
Fax: 619-232-4019
Email: dwatson@kkbs-law.com

Since 1986, clients have turned to **Ninyo & Moore** for innovative solutions to complex geotechnical and environmental challenges. As a leading geotechnical and environmental sciences engineering and consulting firm, Ninyo & Moore provides specialized services to clients in both the public and private sectors. With offices in Colorado, California, Nevada and Arizona, the firm is fully committed to being responsive, cost-efficient, and thorough in meeting its clients' project needs and objectives.

Ninyo & Moore Geotechnical & Environmental Sciences Consultants has immediate employment opportunities in our Denver, Irvine, Las Vegas, Oakland, Phoenix, and San Diego offices. Positions include Engineers and Geologists of all levels, including **Staff Engineers and Geologists, Project Engineers and Geologists, Staff and Project Environmental Scientists, Chief Geotechnical Engineer, and Construction Field and Laboratory Technicians.**

The successful candidates should have a BS or MS degree for staff-level positions and five years or more of experience for project to senior-level positions. The candidates should be detailed oriented and have excellent verbal and written communication skills. Professional Engineer (PE) and/or Professional Geologist (PG) registrations preferred.

Ninyo & Moore offers a competitive salary, excellent benefits and an opportunity for professional growth. Please visit our website for complete and detailed job descriptions and to submit your resume in confidence at www.ninyoandmoore.com/careers or mail to our corporate office at 5710 Ruffin Road, San Diego, CA 92123, Attention: Human Resources. EOE

Hargis + Associates, Inc., a San Diego based consulting firm specializing in **hydrogeology and engineering**, and **SDAG Corporate Sponsor** currently has opportunities in our San Diego, California office. We are currently looking to fill the following positions:

CAD Technician: Ideal candidate is a highly qualified professional for preparation of engineering and geologic graphics. Position requires experience in *AutoCAD* and with engineering process design. Experience with *Civil 3D*, *Land Development Desktop*, *Autoplant*, and *Arcview* a plus.

Staff Engineer: Candidate would have a B.S. Degree in Chemical, Civil, or Mechanical Engineering and 3 to 5 years relevant experience including design, operation, and maintenance of remediation systems. Masters degree and registration is a plus. Candidate should possess strong writing and presentation skills. Position will be based in San Diego, California, and will require some travel and field work. Valid driver's license and U.S. Citizenship required. OSHA 40-hour training preferred, but not mandatory.

Hydrogeologist: Candidate would have a B.S. Degree in Geology and M. S. Degree would be a plus. Entry level position, with work including soil and groundwater sampling, well installation, aquifer test analysis, and report preparation. Candidate should possess strong writing and presentation skills. Candidate with Hydrogeology coursework or GIS background is a positive. Position will be based in San Diego, and will require travel and field work. Only entry level candidates will be considered. Valid driver's license and U.S. Citizenship required. OSHA 40-hour training preferred, but not mandatory.

Staff Hydrogeologist: Position requires minimum a B.S. Degree in Geology, and 3 to 5 years relevant experience, including experience with soils and groundwater sampling, well installation, work plan and report preparation, task management, cost estimating and scheduling. Candidate should possess strong organizational, writing and presentation skills. California Professional Geologist (PG), or ability to obtain within two years, groundwater modeling experience, and Masters degree is a plus. Position will be based in San Diego, and will require some travel and field work. Valid driver's license and U.S. Citizenship required. OSHA 40-hour training required.

Hargis + Associates offer competitive salaries and benefits, and a challenging work atmosphere. Hargis + Associates is an Equal Opportunity Employer. To learn more about Hargis + Associates, please visit our website at: www.hargis.com.

No phone calls please. Qualified candidates should send resumes, along with a cover letter summarizing experience and salary requirements to:

Hargis + Associates, Inc.
Attention: Jennifer Layton
2365 Northside Drive, Suite C-100
San Diego, CA 92108

The San Diego Natural History Museum is run and operated by the San Diego Society of Natural History, a private non-profit scientific organization incorporated in 1874. The Museum's mission is to interpret the natural world through research, education and exhibits; to promote understanding of the evolution and diversity of Southern California and the peninsula of Baja California; and to inspire in all a respect for nature and the environment.

Within the Museum, the Department of PaleoServices (DPS) specializes in paleontological resource management. Our focus is on the recognition, recovery, and preservation of the significant and unique paleontological resources that occur in this region. The activities of DPS are helping to preserve significant fossil assemblages and are directly contributing to the growth of the important paleontological research collections at the Museum. We are currently looking to fill the following position:

Paleontological Field Manager: Position responsibilities include coordination of paleontological field activities (i.e., supervision of field monitors in prospecting for and collection of fossils and the recording of stratigraphic, taphonomic, geographic, and topographic data) and production of final project reports that summarize the methods and preliminary results of paleontological salvage activities. Other duties include generation of initial discovery letter reports for City, County, and/or State agency managers and generation of paleontological resource assessment technical reports. Opportunities also include paleontological field work in the Southern California region and working with the extensive fossil collections of the San Diego Natural History Museum.

Qualified candidates must have at least a B.S. Degree in Geology or Paleobiology; 2 to 3 years of relevant experience (especially sedimentary geology and paleontology); excellent supervisory/managerial, verbal, written, and interpersonal skills; and a strong work ethic, intense drive, and initiative for quality and customer service. This position is a regular, full-time salaried position with a generous benefits package (e.g., full medical and 401K plan). Compensation will be based on individual qualifications and experience (annual salary range \$40,000 to \$60,000).

YOUR JOB ANNOUNCEMENT COULD GO HERE:



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NEW POLICY: Your membership dues include email delivery of the monthly newsletter. If you wish to receive a hardcopy of the newsletter through US Mail, please add \$10.00 to your membership dues.

Dues:	_____ Student Member (email delivery only)	\$ 5.00
(check choice)	_____ Regular Member (email delivery only)	\$ 25.00
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(Name as you would like it to appear in guidebook and website)

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Date: _____ Check for change of mailing address:

Please enclose a check payable to SDAG, and mail to:

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