

SAN DIEGO ASSOCIATION OF GEOLOGISTS

www.sandiegogeologists.org

SDAG MEETING ANNOUNCEMENT

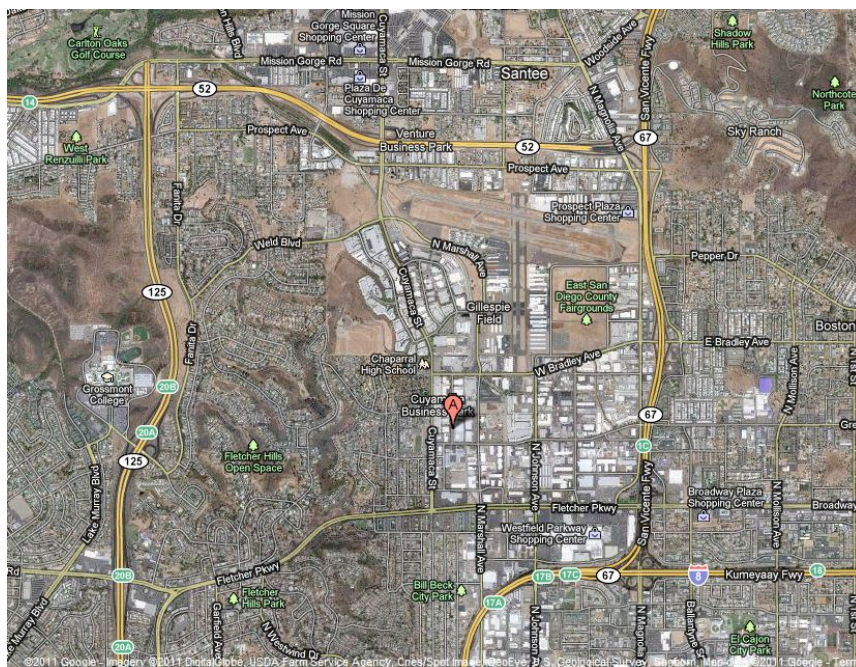
WEDNESDAY, May 18TH, 2011

“Mapping the San Diego Underground.”

Presented by

Carolyn Glockhoff

Where: Sunbelt Publications, Inc. 1256 Fayette Street El Cajon, CA 92020 (619)258-4911



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

Dinner: Hacienda Casa Blanca Mexican Buffet, (SDAG para proporcionar cervezas y bebidas)

Cost: \$30 per person, \$5 discount for members, STUDENTS: \$20. Walk-Ins and 11th Hour Reservations, please add \$5.

Reservations: Make your reservation online at www.sandiegogeologists.org, **No later than noon, Monday, May 16th.**

SPEAKER BIO

SPEAKER: CARLOYN GLOCKHOFF

Carolyn Glockhoff received a BS in geology from Western Illinois University, then continued to graduate school at the Univ. of Miami, Rosenstiel School of Marine and Atmospheric Sciences studying marine geology and geophysics. Moving to San Diego, she worked at Scripps Institution of Oceanography, as a marine geologist/ sedimentologist/ micro-paleontologist/ data manager for marine collections. This involved core logging, setting up geological sample databases, and occasionally going to sea.

Carolyn's next career track was in environmental geology for several consulting companies, involving field work (yank a tank site assessment and remediation) plus site mapping, drawing cross sections, mapping, and contouring contaminant areas.

When environmental geology jobs had a downturn, Carolyn trained in multimedia design & management and software engineering and worked as a web developer for many years.

Carolyn's career path veered back toward geology when she completed a certificate program in Geographic Information Systems from SDCCD – Mesa College and began working for the US Geological Survey in late 2008. Currently Carolyn combines skills as geologist, researcher, computer geek, map maker, and now puzzle builder and solver.

SPEAKER ABSTRACT

Mapping the San Diego Underground

Carolyn Glockhoff, Geographer, US Geological Survey, California Water Science Center

A three-dimensional (3D) geologic map of the San Diego/Tijuana area was created to help define the local groundwater resources. Creating the map, the first of its kind for this area, involved use of pre-existing GIS (geographic information systems) datasets including a DEM (digital elevation model), surface geologic maps, drilling and geophysical logs, and literature describing oil wells, water wells, and outcrops. A variety of software was used to process the data. A total of 88 wells, which showed stratigraphy older than Quaternary age, helped provide depth information. Direct examination of data from multiple-depth wells, installed since 2001 by the U.S. Geological Survey, provided the most reliable “ground-truth” for geologic layers. The 3D map will be used to help local water purveyors and their consultants understand the spatial extent, volume, and arrangement of local geologic layers for potential seasonal storage and extraction of groundwater. Updates on the San Diego Hydrogeology project can be found at <http://ca.water.usgs.gov/sandiego/>.

2011 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!

June 15, 2011	Vicki Todd – The Ramona Complex of the Southern California Batholith
July 20, 2011	Mark Legg – Tsunami Hazards in the San Diego Region
August 17, 2011	Tom Rockwell – EQ recurrence in So Cal versus other parts of the world

2011 EXECUTIVE COMMITTEE

PRESIDENT – Chuck Houser; *SCS Engineers*; Ph: (858) 571-5500; CHouser@scsengineers.com

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PUBLICATIONS – Lowell Lindsay; *Sunbelt Publications*; Ph: (619) 258-4911, x111; fax: (619) 258-4916; llindsay@sunbeltpub.com

WEBMASTER – Carolyn Glockhoff; *Caro-Lion Enterprises*; Ph: (858) 549-3396; carolyn@caro-lion.com

PRESIDENTS CORNER, MAY 2011

May already? Soon 2011 will be half way done! Now our May meeting is a few days away, Carolyn Glockhoff from the USGS will be discussing groundwater in San Diego County with us. Please be sure to join us at Sunbelt Books in El Cajon for this meeting. Also be sure to put the June joint meeting with SCGS on your calendars, June 15th at El Adobe in San Juan Capistrano. Vicki Todd will be presenting her work on the Ramona pluton complex of the western Peninsular Ranges batholith.

I received an email from Todd reminding possible authors for the 2011 guidebook that the deadline for submitting papers is only four months away. Four months? No problem, right? Based on some “recent experience,” four months will seem like three weeks. So, if you are planning to submit a paper for the guidebook, keep the deadline in mind. The trip planning is progressing well. Early November will be here sooner than we think, so be sure to make your plans to join SDAG for this great trip.

A final note, for all of you who attended the celebration of Lyne Perry’s life at the Murbach’s a few weeks ago, thank you for joining us there and being a part of that important gathering. I was encouraged and I know many others were as well to see so many people there to remember Lyne. A special thanks to Monte and Diane for opening their place for us to gather.

Chuck Houser



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Contact: **Dave Bloom**



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Contact: **Steve Zigan**

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- Monte and Diane Murbach - [Murbach Geotech](#)
- [Ninyo & Moore](#) - Jonathan Goodmacher
- David and Jan Steller ("two-fer" - thanks!)
- [Dr. Anne Sturz](#)
- Sue Tanges -Southland Geotechnical Consultants
- Terra Costa Consulting Group, Inc.
- Mary Walke
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Add yourself to this list - Sponsors, Corporate Sponsors, and Patrons provide a significant portion of SDGS's and SDAG's operating and scholarship budgets. SDGS is (a 501(c)3 public benefit nonprofit educational corporation). For more information, please see our Sponsorship Form

ANNOUNCEMENTS:

Request for Sponsors: 2011 SDAG/SDGS and Publication SPONSORS

On behalf of the San Diego Geological Society, Inc. (SDGS), a public benefit 501(c)3 nonprofit educational corporation, we would like to request tax deductible Donations at our San Diego Association of Geologists (SDAG)

The list of paid Sponsors and the forms to become a Sponsor are located on the SDAG web site at: <http://www.sandiegogeologists.org/Sponsors.html>.

Your donation will further the SDGS mission to promote geology and related fields in the greater San Diego region, operating through the San Diego Association of Geologists (SDAG), a committee of SDGS. To achieve our primary educational objective, we organize frequent field trips and maintain a program of monthly meetings featuring speakers on current geological topics. We also publish field trip guidebooks and other publications related to geology and natural history. We encourage scholarship and research by awarding scholarships from the elementary through graduate levels. With your \$100 "EMERALD" donation, your name/business will be listed as a sponsor on the SDAG web site (<http://www.sandiegogeologists.org/>) and in the monthly SDAG meeting newsletters. With your \$500 "RUBY" or \$1,000 or more "DIAMOND" level donation, your business card will also be included on the SDAG web site and in the monthly SDAG meeting newsletters. In addition, as a "\$1,000 or more DIAMOND" level donation you will be presented with a thank you plaque. Should you have any questions regarding a Sponsorship, please contact our non-profit SDGS Secretary (Diane Murbach) at 619-865-4333.

Reminder: Annual Membership Dues for 2011!

SDAG Membership dues are always accepted! If you have not already done so, please complete the form located here <http://www.sandiegogeologists.org/MemberForm.pdf>, with a check for \$25, to keep yourself in good standing. That's \$2.08 per month, what a bargain!



Grand Canyon Raft Trip, June 24 - July 1, 2011 :

Want to join your geo-pals on an eight-day Colorado River raft trip through the geological wonderland of Grand Canyon National Park? If there is enough interest, Sue Tanges will again organize a chartered raft trip for rock hounds, their families and friends. She will accompany us on the trip. This is the last time Sue will organize a chartered Grand Canyon raft trip! The trip is tentatively scheduled for June 24 through July 1, 2011. The raft company will be Grand Canyon Expeditions

Company of Kanab, Utah (<http://www.gcex.com/>). They have excellent river guides and the trip costs include the following:

- Round-trip transportation from Las Vegas, Nevada, to/from the river
- Sleeping bag, pad, ground cloth, and tent
- Waterproof river bags for sleeping gear and clothing
- Waterproof ammo box for camera and personal items
- All meals while on river, prepared with fresh meats and produce
- Utensils, cups, and plates
- Generous supply of soft drinks, juice, and a river-full of water
- Bring your own alcoholic beverages if desired
- Great fun and memorable experience (ask former river rats!!)

Two rafts are chartered and each will hold 14 passengers. We have space for 28 of us! Reservations will be on a first-come, first-serve basis. A waiting list for cancellations will be maintained. The price of the trip is not finalized but is likely about \$2,500. (There is a savings off the brochure price!) To express your interest, email Sue at grcynsue@att.net. Deposits will be required by September. More info will follow, if there is enough interest to fill the rafts! See you in the river in 2011!!!

Conference and call for papers for next year's **Coastal Engineering Practice Conference**, to be held in San Diego August 21-24, 2011. "[Call for Papers](#)" (abstract deadline was November 16, 2010). The conference is recommended for all engineers, geologists, and consultants seeking solutions to coastal engineering and development problems.

MEETINGS AROUND THE REGION:



Earthquake Engineering Research Institute

Are we prepared for earthquakes and other disasters in the San Diego Region? The Great East Japan Earthquake: Lessons for California

and San Diego - May 25, 2010; 6:00 - 9:00 pm. - The M 9.0 Great Eastern Japan Earthquake on March 11, 2011 resulted in approximately \$300 billion in losses in a region with a high population density. A huge tsunami caused devastation mainly to lowlands along the eastern Japanese coast. The Japanese National Police Agency has confirmed about 15,000 deaths, more than 5,000 injured and more than 10,000 people still missing. This is the most costly natural disaster in history. In addition, the tsunami has caused an unprecedented nuclear crisis with the most serious accident at the Fukushima I Nuclear Power Plant.

What are lessons learned from this event? How can we apply these lessons learned to California and San Diego? A panel of distinguished speakers will respond to these questions and entice discussion with the audience. These speakers include: Dr. Jorge Meneses (Kleinfelder), Dr. Mitsuo Nozu (Fudo-Tetra, Japan), Prof. Atsushi Tago (Kobe University, Japan), Dr. Matthew Tobolski (Tobolski Watkins Engineering), and Kathy Yhip (San Onofre Nuclear Generation Station).

Jorge Meneses will provide an overview of the mega-earthquake and tsunami, and present his findings and observations from his *GEER* (Geotechnical Extreme Events Reconnaissance) mission;

Mitsuo Nozu will present in detail the damage caused by liquefaction and lateral spreading in Urayasu City, Tokyo Bay; Atsushi Tago will describe the impact of the mega earthquake and tsunami to the people of the most affected Sendai region; Matthew Tobolski will provide a discussion of a variety of hazards that are traditionally considered when performing design of nuclear facilities; and Kathy Yhip will describe the twin reactor units at Southern California Edison's San Onofre Nuclear Generating Station and a status of current safety conditions.

Venue, Date and time: The Tom Ham's Lighthouse Restaurant located on 2150 Harbor Island Dr., San Diego, CA 92101, Wednesday, May 25, 2010; 6:00 - 9:00 pm. Cost: \$35 / EERI members, \$40 / non-EERI members, \$25 / Students and Government Employees. Payment in the form of cash or check payable to EERI will be accepted at the door. Additionally, Mastercard and Visa credit cards will also be accepted but processed after the meeting. Please register for the event by Monday, May 23rd by contacting Lelli Van Den Einde at lellivde@ucsd.edu or (858) 822-2188.

AAAS, Pacific Division, 92nd Annual Meeting, SAN DIEGO, CA June 12 - 16, 2011 on the campus of University of San Diego - Call for Symposium and Workshop Proposals Questions? Contact Dr. Roger Christianson, Executive Director, AAAS Pacific Division, Southern Oregon University, Ashland, OR 97520. Phone: 541-552-6747; e-mail: rchristi@sou.edu.

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Qualifications Summary and Objective: I have 14 years experience directing surface water quality monitoring programs with a proven record of excelling in monitoring plan implementation, quality control, public notification and continuous improvement in operational effectiveness and efficiency. I have built and maintained relationships with key staff in academia, industry, and all levels of government in San Diego and California. I have a widely applicable skill set which includes: analytical thinking, communication and writing skills, data analysis and management, inter and intra- agency project coordination, and staff supervision and training. My objective is to obtain a career position with an industry leader where I can contribute my skills to build the success of my employer as well grow professionally. Detailed work experience, education and more at www.linkedin.com/in/cbclifton2010. Email cbc2006@cox.net or 619-964-1776. Contact: **Clay Clifton**

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Please Make a Note! The San Diego Association of Geologists has a new mailing address:

**San Diego Association of Geologists (SDAG)**  
**3130 N Evergreen Street**  
**San Diego, CA 92110**

We've consolidated and therefore replaced the address formerly intended for membership correspondence: PMB 157, 5694 Mission Center Road, Suite 602, San Diego, CA 92108

We also replaced the address used for the ordering of publications: P.O. Box 191126  
San Diego, CA 92159-1126

Don't forget! Send in your 2011 membership form, available at:

<http://www.sandiegogeologists.org/MemberForm.pdf>

And check out our publications available for order at:

<http://www.sandiegogeologists.org/Publications.html>

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RANDAL L. IRWIN (1953-2011) - Randal L. Irwin passed away at his home in Pine Valley on the weekend of May 1, 2011. Randy was born on September 13, 1953, and was 57 years old. He is survived by his son Chaz (Charles), a 20-year old college student; his daughter Carole, a married 23-year old; and his former wife Susan Tipton-Irwin, who lives in Oregon. He has other relatives in northern California.

Randy Irwin was Chief Engineering Geologist at Ninyo & Moore, where he had been employed since August 9, 1988. Before coming to Ninyo & Moore, he was employed by Leighton & Associates in San Diego until 1988, and by Kleinfelder in northern California before that. Randy received a Bachelor of Science in Geology from Sonoma State University in 1980, and Master of Science in Geological Sciences from San Diego State University in 1986. He was a certified Engineering Geologist and registered Professional Geologist in California, and a Registered Geologist in Arizona and Oregon. He was a member of Association of Environmental & Engineering Geologists (AEG), San Diego Association of Geologists (SDAG), Society for Mining, Metallurgy and Exploration (SME), and other professional societies.

Randy Irwin was an excellent field geologist, researcher and project manager. He was exceptionally intelligent and experienced in the investigation of faulting, landslides and other geologic hazards. He was highly respected by his friends and colleagues, and was always willing to train, mentor and offer guidance to the younger geologists and engineers. Randy was noted for his cheerful disposition and dry sense of humor. Although he suffered from several serious health problems in recent years, he rarely, if ever, complained. He was a kind person who never indulged in office gossip. He was a level-headed, calm professional and was dedicated to the ethical practice of engineering geology and geotechnical consulting. We will miss Randy Irwin's presence. In accordance with his request, his ashes will be spread over the Nevada desert, a place he loved to visit