

Inland Geological Society

October 2010

Newsletter of the Inland Geological Society

Volume 26 No. 10

This Meeting:

**Wednesday,
October 6th**

Time:

**Social: 6:00pm
Dinner: 6:30pm
Lecture: 7:00pm**

Location:

**LSA Associates
1500 Iowa Ave
Suite 200
Riverside, CA
92507**

(Map on Pg. 8)

Coming to

Dinner?

Please RSVP:

**By Friday 10/1
(951) 782-3295**

dlass@

waterboards.ca.gov

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October Speaker:

Ken Pitchford, PG, CEG

Independent Consultant

General geologic and tectonic history of the Korean peninsula

Abstract

Mr. Pitchford will discuss the general geologic and tectonic history of the Korean peninsula and adjacent areas, local geographic and hydrologic conditions in the areas where he worked, the projects he worked on, and some of the cultural aspects of life in Korea for an American ex-patriot.

In general, the Korean peninsula was formed by compressional tectonic forces associated with Precambrian and Permo-Triassic plate collisions of the Japanese Plate with the North and South China cratons. This has resulted in several parallel Korean mountain massifs consisting of moderately to intensely metamorphosed gneisses, schists, and limestones. Subsequent erosion and deposition has exposed these basement rocks in mountainous highlands and has created alluvial and fluvial sediments in intermontane valleys. Moderate volcanic, hydrothermal, and seismic activity occurs locally on the Korean peninsula. Various metallic,

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nonmetallic, and industrial mineral deposits are exploited throughout the Korean peninsula.

Ken's work in Korea included soil and groundwater impact assessment and remediation projects at several US Army bases in Military Area I near the Demilitarized Zone on the border with North Korea, updating US military environmental regulations to reflect new US and Korean national standards, and training US Army environmental officers in environmental awareness and hazardous waste handling protocols. Between assignments on US military bases, Ken was able to experience civilian life among the Korean people and will share some interesting stories during his presentation.

Biography:

Ken Pitchford, PG, CEG earned a Bachelor of Science in geology from California State University, Los Angeles. His academic background includes specialties in engineering geology, groundwater management, mining geology, and petroleum geology. He is a California-licensed Professional Geologist and Certified Engineering Geologist and holds numerous additional professional certifications.

Mr. Pitchford is an independent consultant in environmental and engineering geology and in recent years has divided his time between projects in Asia and the US, including several years in Bangladesh and Korea, and in numerous US states. He has recently returned to the US from a 5-month consulting assignment in Korea for the US Army Corps of Engineers - Far East District.

WE ARE LOOKING FOR SPEAKERS
Tell us about what you have been working on!

Can you believe 2011 is just around the corner?
We are looking for speakers for the upcoming year!

Have you been working on a project that
you would like to share if us?

Are you planning on defending your senior project,
graduate thesis or dissertation this coming spring?
Why not get in some real-life practice by presenting
it at an upcoming meeting?

Contact Steve Mains, Greg Johnson or Shelby
Barker and get your name in the schedule!

From National Air & Space Museum:
(thanks goes to James from the Riverside Metropolitan Museum for sharing this with us)

What's New in Research

The Incredible Shrinking Moon. The Lunar Reconnaissance Orbiter is revealing previously undetected landforms that indicate the Moon is shrinking. The findings are reported in a paper by the Museum's senior scientist Tom Watters. Titled "Evidence of Recent Thrust Faulting on the Moon Revealed by the Lunar Reconnaissance Orbiter Camera," the paper was published in the August 20 issue of the journal *Science*.

Lobate scarps, imaged by the Lunar Reconnaissance Orbiter Camera (LROC), are thrust faults that occur primarily in the lunar highlands. They were first recognized in photographs taken near the Moon's equator by the panoramic cameras flown on the Apollo 15, 16 and 17 missions. Fourteen previously unknown lobate scarps have now been revealed in very high resolution images taken by the LROC. The newly detected scarps indicate that the thrust faults are globally distributed and not clustered near the Moon's equator.

"One of the remarkable aspects of the lunar scarps is their apparent young age," said Dr. Watters. "Relatively young, globally distributed thrust faults show recent contraction of the whole Moon, likely due to cooling of the lunar interior. The amount of contraction is estimated to be about 100 meters in the recent past."

[Read more and watch videos on the topic](#)

Wanted: Vice President/Program Chair

The Inland Geological Society is looking for a Vice President/Program Chair. This person is responsible for scheduling speakers for upcoming meetings.

If you or someone you know is interested in the position, please contact Steve Mains, Greg Johnson or Shelby Barker and get your name in the schedule!

Mineral Locality Symposium

Saturday, October 23, 2010

Followed by a field trip on Sunday, October 24, 2010

Suggested Donation: \$5.00 (students, \$2.00 with ID) for Saturday Lectures, \$20 for Sunday Field Trip

Sponsored By **Friends of Mineralogy (Southern California Chapter) & the UC Riverside Geology Department**

UC Riverside

900 University Avenue

Riverside, CA 92521

Genomics Building Auditorium (E-7)

Phone: (760) 728-1130

<http://www.UCR.edu>

Parking: \$5, Lot 13 <http://campusmap.ucr.edu/map.pdf>

Directions: Take CA-91 East to CA-60 East.

Exit the 60 East on University Avenue, turn left (east).

Turn left on Canyon Crest.

Turn right on Linden.

Turn right on Aberdeen.

Turn left on North Campus Drive.

Turn left on Big Springs Road.

Turn right into Parking Lot 13 (G-6 on map).

Purchase parking pass (\$5) from attendant (tell them you are attending SCFM Symposium).

Walk to Genomics Building Auditorium (E-7 on map).

Saturday Symposium & Sunday Field Trip Information

9:00 AM Registration and UCR welcome in Genomics Building Auditorium

Register Saturday Morning for the Symposium Sunday Field Trip

9:30 Welcome to UCR — Dr. Michael McKibben

9:35 Kimberlite Diamonds: Diamond formation; history and role in political/economic stability — Dr. Larissa Dobrzhinetskaya

10:20 Break

10:30 Lithium-Bearing Pegmatites, Petrogenesis at Pala — Dr. Doug Morton

11:15 Kinetics of sulfide mineral oxidation in seawater: implications for mining seafloor hot springs — Gina Romano

11:35 Kinetics of tungstate mineral dissolution in groundwater - implications for environmental geochemistry
— Danielle Montgomery

12:00 PM Lunch at Sub Station (C5)

Silent Auction in courtyard, Please bring mineral specimens for auction.

1:30 Lab Tours – Geology Building (E6)

High Pressure lab 1:30-2:00

Mineral Kinetics lab 2:00-2:30

SEM/TEM facility 2:30-3:00

3:00 FILM: RED DIAMONDS: Exploration in Australia

4:30 Discuss Field Trip Logistics to a Lithium Bearing Pegmatite

You must register for the FT on Saturday at the symposium to receive instructions/directions/and participation fees for collecting at the tourmaline mine. (NO Exceptions!). You will need to sign a liability waver on Saturday to attend the FT. Register so that we do not forget your arrival at the meeting place on Sunday.

Employment Opportunities

Executive / Senior Level—Water Resources Practice Group Leader (CEQA / NEPA)

Sequence Staffing has been tasked by one of their most reputable and extremely stable environmental clients to assist them in locating and hiring a Group Leader for their Sacramento / Central Valley Water Resources Practice. Our client for this engagement is a leading Northern California based mid-sized consulting firm leading the way in environmental, biological, planning and renewable / energy consulting.

The organization has built a strong practice group specifically focused on water resources, management, wastewater, recycling and supply related activities. The firm has achieved significant success over the years (continuing to experienced stable and profitable years through the recession with a track record of selling and managing smartly to double employee productivity) with a reputation for producing very high quality technical work, well implemented strategic initiatives and thoughtful organic expansion.

With this growth has come the need to continuously build internal resources and technical skill set. To that end, they are now in **search of a very talented, seasoned project manager / principal level professional to lead technical staff, drive strategic initiatives and help pilot the growth of the organizations Water Resources practice group out of their Sacramento office.**

Primarily this would encompass responsibility for environmental documentation and permitting for complex water resource, wastewater and flood control projects; this specifically includes manage preparation and administration of technically and legally defensible environmental studies, primarily CEQA / NEPA for EIR / EIS / EA related undertakings. An integrity based company, the firm is driven to create scientific documentation that not only sets a standard for quality in the industry, but is based on proven science and is solidly defensible in the scientific community and to the public.

They are seeking to find a senior individual to come into the organization and who could serve both as a lead Project Manager as well as hold Practice Group Leadership responsibilities with relation to water resources activities. Ideally this would be someone that could eventually, or very quickly, progress upwards within the structure to take on a key role within the organization. The right person would be extremely capable and able to supervise / conduct technical work as well as continue to help build their successful water resources practice. So beyond technical excellence, they would be expected to undertake business development, marketing and handled complex client relationships, have a well defined interaction and negotiation skill set, cross sell and create new practice opportunities as possible. Primarily the target market for the practice would be Sacramento, the Central Valley and farther into the northern California region as well as possible opportunities in Tahoe.

The individual who joins the organization must be a seller / doer in the most traditional sense. While our client currently has a backlog of work that the new group leader could rely upon to likely keep him/herself billable with for the foreseeable future, they are expecting this person to bring contacts and relationships to the effort. Hence, if cross-selling and technical focus has traditionally been the background of an individual's business development experience this is not the right opportunity for them. The organization is looking for an individual that could likely build their own practice much less run the one already in place.

Ideally this person would have a minimum of 10+ plus years experience preparing and managing CEQA/NEPA environmental documents; experience obtaining regulatory approval; thorough knowledge of CEQA/NEPA requirements; and Clean Water Act, Endangered Species Act, Clean Air Act, etc. An undergraduate or advanced degrees in Water Resources, Environmental Science, Planning, Engineering, Geography or related education is preferred.

They would also be willing to consider merging in an individual that has a small, independent consulting practice or group of personnel into the firm.

The firm is offering very competitive salary, performance incentives, bonuses and extensive benefits package and is open to signing bonuses and would be willing to help relocate the right individual to the area should they currently not reside in the region.

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Employment Opportunities

Senior Environmental Engineer or Geologist

Sequence Staffing find a Senior Environmental Engineer or Geologist for their client who provides integrated technical, financial and regulatory expertise to Fortune 100 companies.

Specifically, what we're looking for is a keen individual who is a highly experienced, independent environmental consultant to assist with third-party reviews of environmental projects throughout California. Thus, they'd be tasked with reviewing technical and regulatory documentation, reviewing and analyzing historic cost information and invoices, and providing assessments of future environmental requirements. This position will require someone who can ably write concise summaries of project site environmental history and status, coding and categorization of past costs, and development of potential alternatives for future environmental work based on current and anticipated regulatory requirements.

The ideal candidate would have 8+ experience as an environmental engineer, geologist or scientist with experience with the design, costing, implementation, and management of environmental investigation and remediation projects involving CERCLA and RCRA. Experience with contaminant fate and transport concepts and models is a must. A degree in Environmental Engineering, Geology or related discipline and California professional registration (PE or PG) is required.

Plus, solid relationships and experience working with regulatory agencies would prove invaluable. Ability to rapidly evaluate and assimilate volumes of documentation and excellent writing skills is also required.

Our client is highly noted for their sound technical expertise and methodical approach developing creative and strategically-focused solutions to complex environmental problems. With a large multi-disciplinary team - engineers, geologist, applied scientists, regulatory experts, accountants, etc. - their consultants support businesses, assess their environmental liabilities and risks, assist with complying with government regulations, and conduct business in a sustainable, cost-effective and responsible manner.

While many firms these days seem to be promoting or looking for that all inclusive seller/owner, this position is really focused on the technical and management aspects for projects. So this is an execution-focused post working with a multi-disciplinary team performing forensic analysis of past environmental remediation performance and developing project status summaries.

As you can see, this is an excellent opportunity for a senior level professional with environmental consulting experience. It's also a very good fit for a dynamic individual looking to take on the senior leadership role who has served capably in the number two slot of a practice group.

Our client is a profitable, growing organization widely recognized for producing very high quality technical work products, which has resulted in a healthy mix of solidly established long-term clients in the private sector. And, because they're technically and organizationally very strong, and financially stable, they've been extremely successful getting involved with some of the most interesting, innovative projects we've seen. Thus, this position also presents an assortment of career opportunities for the right person.

Our client is offering an extremely competitive salary and excellent benefits package; and they're highly noted for helping personnel develop and progress, both personally and professionally. They pride themselves in fostering a highly skilled, energized and empowered workforce. So I feel confident this would be the type of opportunity with a respectable and able organization that you could be comfortable referring to someone.

Our client has been rewarded for growing organically and holistically with an organizational structure based on shared firm-wide resources and not silo-type profit centers that are often so common. They've expanded through aggressive, targeted business development and with the recruitment of highly skilled, experienced individuals who are leaders, or the future leaders, in their field.

For serious and confidential consideration, please contact:

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2008 Opportunity Drive, Suite 150, Roseville, CA 95678
www.sequencestaffing.com

Upcoming Meetings/Events

Rock & Gem Shows—Various locations

Various rock and mineral shows will be throughout So. California. To find one near you, visit www.rockngem.com/showdates.asp

Groundwater Resources Assoc. of CA

The Groundwater Resources Association of California will be holding their *Advanced Tool for In-Situ Remediation Workshop* on **October 20, 2010** in Oakland, CA. This workshop is free for all regulators and public agency personnel. For more info., visit www.grac.org/

Groundwater Resources Assoc. of CA

The Groundwater Resources Association of California will be holding a course on *Interpreting Non-Detect Data Correctly* on **November 2, 2010** in Ontario, CA. For more info., visit www.grac.org/

SME—SoCal Section October Meeting



Dr. Jeff Gillow, Principal Scientist for ARCADIS—Denver, CO, will be presenting a talk on the "*Characterization of Arsenic Geochemistry in the Historic Mojave Mining District of California*" on **Tuesday,**

October 19, 2010. For more info., visit www.smenet.org/southerncalifornia/

SEPM, Pacific Section— Fall Field Trip



The Society for Sedimentary Geology, Pacific Section has tentatively scheduled their 2010 fall field trip, "*Late Paleozoic of Arrow Canyon, Nevada*, for **October 16 - 17, 2010.** For more info., visit

www.sci.sdsu.edu/pacsepm/

IGS Meeting Schedule

November 4, 2010 (Thursday)

Dr. Elizabeth Cochran, UC Riverside
Early warning seismic network

December 1, 2010 (Wednesday)

Susan Hough, USGS
Haiti Earthquake Groundmotion

January 6, 2010 (Thursday)

Bob Reynolds & Lloyd Sample
SCE El Casco Substation: Construction excavation monitoring salvages an early Irvingtonian (middle Pleistocene) fauna and flora

February 2, 2010 (Wednesday)

TBA

March 3, 2010 (Thursday)

TBA

April 6, 2010 (Wednesday)

TBA

May 5, 2010 (Thursday)

TBA

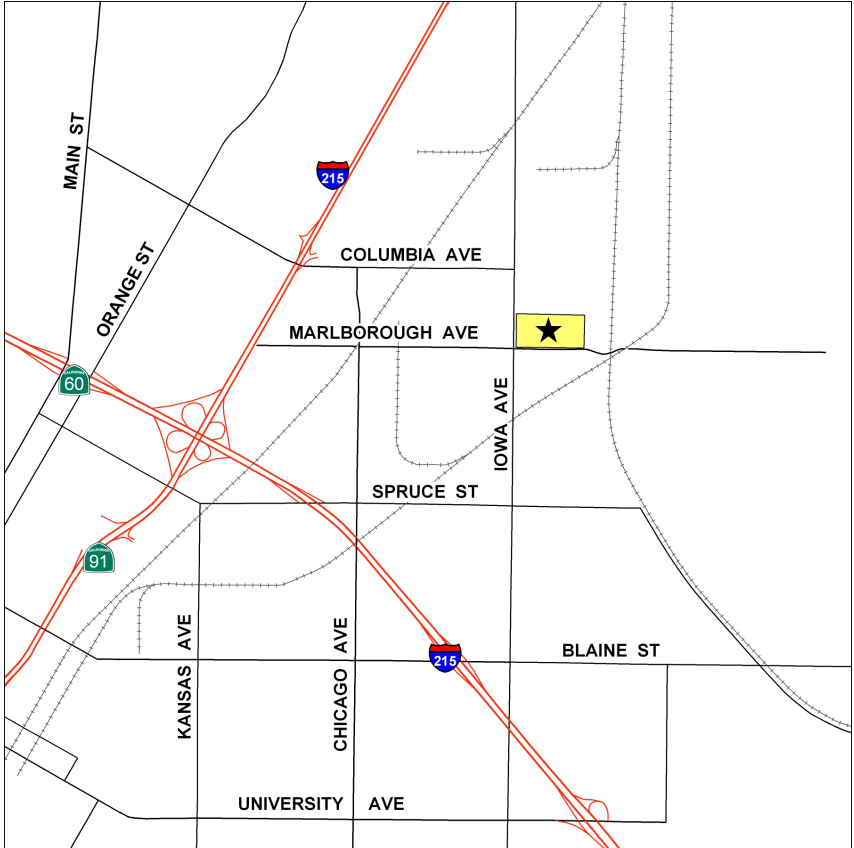
June 1, 2010 (Wednesday)

TBA



IGS MEETING LOCATION:

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