CALENDAR OF EVENTS

April 10
Wednesday
WINNEMUCCA CHAPTER MEETING: Humboldt Room at the Red Lion Hotel/Casino, Winnemucca, NV. Speaker: Rachelle Boskie-Williams. Title: “A detailed structure and stratigraphy of the lower Paleozoic rocks of the Getchell Trend, Osgood Mtns., Humboldt County, NV.” Bar opens at 6:45 pm, meeting at 7 pm. Contact Sheila Bunch, sbunch@lambdacom.com, 775/623-0202.

April 18
Thursday
ELKO CHAPTER MEETING: Western Folklife Center, Elko, NV. Speaker and topic to be announced. Refreshments at 6:30 pm. Sponsored by Morgan Stanley. Contact Leslie Creel, 775/468-4400.

April 19
Friday
GSN SYMPOSIUM 2005 - Third Organizational Meeting: Round Table Pizza, N. McCarran and Mae Anne Ave., Reno, NV. 12 noon. Contact Dave Shaddrick, 775/746-2071 or Laura Ruud, 775/323-3500.

April 19
Friday
GSN MEMBERSHIP MEETING: Reno Elks Lodge, Reno, NV. Speaker: Stephen G. Peters, USGS, Reno Field Office. Title: “Syngenetic and syndeformational features of Carlin-type Au deposits in China and Nevada.” Social-6 pm, dinner-7 pm ($17), talk-8 pm. Contact Laura Ruud, 775/323-3500, email: gsn@mines.unr.edu.

April 25
Thursday
SOUTHERN NEVADA CHAPTER MEETING: Lilly Fong Geoscience Bldg., Room 102, UNLV, Las Vegas, NV. Speaker: UNLV Graduate Student Presentations. Social-5:30 pm. Contact Chris Riecken, 702/435-5664.

GSN Newsletter is published monthly except June and July
Geological Society of Nevada, PO Box 12021, Reno, NV 89510-2021 USA, 775/323-3500

CALENDAR OF STUDENT POSTERS

April 19, 2002, GSN Meeting

Fredy Marino, CREG Student
Structural and Mineralogical Features of the Deep Post Gold Deposit, Northern Carlin Trend, Nevada

Jim Scott (Presenter), Matt Clark, John Louie (Advisor)
Shallow Shear Wave Velocity Profiles of the Reno Basin

Scott Buchanan, CREG Student
Preliminary Spatial and Temporal Model of Carbonate Vein Characterization In and Around Carlin-Type Gold Deposits
FROM THE PRESIDENT
Dave Shaddrick, GSN President 2001-2002

Things are never boring around GSN. This month’s newsletter contains our first “opinion column” in many years. This feature has been reinstated due to popular demand and an opportunity to say your piece is open to all GSN members. Equal space will be provided for opposing views. The Executive Committee will retain considerable editorial control with regard to length and “tone” – no yellow journalism please.

Greg French has come up with a great idea for what he calls a “Member’s Forum”. His vision is to set up a table at each meeting where members can put out brochures, resumes, prospect descriptions, etc. I believe we will be starting this at the next meeting, I will let Greg provide the details about this.

On the subject of great ideas, Earl Abbott and Steve Garwin got together, probably at the Stray Dog in Elko, and came up with the idea of inviting students to present posters of their work at the monthly GSN meetings. Everyone is so enthused about this that Earl and Steve have three student posters lined up for the April meeting. They will be set up in the back of the big room with the bar. Be sure to go over and see what’s going on. If you have any thoughts about this contact Earl or Steve (see your membership directory).

I know we promised to have a final Symposium 2000 accounting this month but the final closeout from the bank has not yet been received. Rich DeLong, Symposium 2000 Treasurer, will provide the closing profit and loss statement when he receives these documents. We do, however, have a pretty tight handle on the net cash profit from the Symposium. This amount is $118,000 give or take a few pennies. How about that! As with all previous symposia, the Executive Committee has spent several months debating the use of these funds and has produced a resolution of the Trustees of the Corporation (GSN is the corporation and the officers are the trustees). The resolution does the following:

1. Sets aside $15,000 as seed money for Symposium 2005
2. Deposits $70,000 in the Investment Fund set up by the recent BY-LAWS change
3. Retains $33,000 as operating funds to be used over the next five or six years (that’s when we expect income from Symposium 2005) for donations to the GSN Foundation, purchase of capital equipment and other uses to be determined by the Executive Committee

If you have any questions about this please give me a call.

IT’S GOLF TOURNEY TIME!

The GSN’s annual Golf Tournament’s date has been set for Sunday, June 23, 2002 so mark your calendars TODAY! The friendly competition will again be held at the Washoe Golf Course, Reno, Nevada with the shotgun start beginning at 1:00 pm. Of course, the tournament will be followed by a barbeque and prize presentations. Eklund Drilling Company has AGAIN agreed to sponsor this event. Thank you Eklund! Also, Bob Felder has agreed to continue as “Master Organizer” and the GSN really appreciates him for that. Look for the sign up form in the May newsletter.

2002 SCIENCE FAIR WRAP-UP

The Western Nevada Regional Science and Engineering Fair was held on the evening of Thursday, March 14, 2002 at Lawlor Events Center in Reno. A huge thanks goes out to all of you who volunteered as a judge for this event. It was a fun night and the work went quickly with so many great volunteers. You are much appreciated!

GSN SPRING FIELD TRIP – REMINDER

Date: June 15-16, 2002
Theme: Jurassic Magmatism and Metal Deposits in Western Nevada
Place: Yerington Mining District and Humboldt Mafic Complex
Register: A Sign up Form will be Provided in the May Newsletter

If you would like to get your name on the reservation list, you can contact Laura Ruud at the GSN office. The cost is still being worked out.

WOMEN’S MINING COALITION – TRIP TO D.C.

The Women’s Mining Coalition is organizing a trip for the week of May 13th. We will be coordinating people from across the country to meet in Washington, DC that week to meet with members of Congress - RE: Mining Related Issues. Anyone interested in participating, please phone Ann Carpenter or Ruth Carraher at 775-829-2121, ext 16, or email us at wmc@nevadamining.org

Thanks to Connors Drilling Inc. and MI Drilling Fluids for hosting the March meeting.
SYNGENETIC AND SYNDEFORMATIONAL FEATURES OF CARLIN-TYPE AU DEPOSITS IN CHINA AND NEVADA


Carlin-type Au deposits in Nevada and in China have both similar and conflicting characteristics and relationships that contribute to controversies of their genesis and age. Stratigraphic chronology can only give a maximum age. The orebodies display geologic features that may represent processes that span long periods of geological time. Various genetic deposit models call upon a number of mineralizing processes, various sources of metals, and different types of hydrothermal fluid. Epigenetic hypotheses for genesis of Carlin-type Au deposits indicate possible connections to igneous activity at depth, complex evolution of tectono-thermal events, inherent host rock chemistry and permeabilities, evolved meteoric fluids, oil brines or orogenic fluids, and other factors. Some deposits, however, exhibit syngenetic and syndeformational features.

North-central Nevada and China contain Carlin-type Au deposits of different types and sizes. Gold is the main metal mined, although some deposits contain significant amounts of As, Ag, Sb, and Hg and lesser amounts of Cu, Pb, and Zn. Some Chinese deposits contain these metals and also W and PGEs. The deposits in both countries are mainly hosted in late Paleozoic and early Mesozoic limestone, siltstone, argillite, and shale. Locally, igneous rocks also host Au. Gold usually is micron-size, and is associated with As-rich pyrite. In some deposits free Au also is common.
Striking alignment of many Carlin-type Au deposits suggests that these Au trends may result from deep-seated structures that served as traps or conduits for the Au-bearing fluids. Large tectonic structures and associated faults are spatially related to Au deposits, such as the Baiyun-Lixian-Shanyang rift in the Qinling fold belt area, and the Youjiang deep-crustal rift system in the Dian-Qian-Gui area in China, and the Carlin, Battle Mountain-Eureka and Getchell trends, as well as the Crescent Valley-Independence Lineament in Nevada. These regional-scale structures or lineaments can serve as both conduits for ore solutions and as host structures for Carlin-type Au deposits.

Some structurally-controlled-type orebodies contain micro- and mesoscopic-scale deformation fabrics and textures that can be linked directly with paragenetic development of the orebody. Geometric and structural characteristics indicate that some parts of the orebodies were formed synchronously with deformation and have spatial and genetic relations to folds and faults. Shear folding of pre-existing regional folds was a major ore-control in the large Betze Au deposit in the Carlin trend, Nevada such that brittle-ductile deformation was synchronous with ore deposition. Syn-deformational genesis has been documented in the Lannigou Au deposit, Guizhou Province Dian-Qian-Gui area, and also is suggested from ore textures in the Maanqiao and Jinlongshan Au deposits in the East Qinling fold belt area, Shaanxi Province China. These processes have altered proto orebodies and caused enrichment and concentration of ore-related chemical elements from source beds into the Au ore deposits. Comparative studies of Carlin-type Au deposits between Nevada and China have demonstrated that similarities between the deposits on both continents may be helpful in advancing our understanding of them.

ABSTRACT continued from page 3

9TH ANNUAL RALPH J. ROBERTS
DISTINGUISHED LECTURE IN
ECONOMIC GEOLOGY

This year, William X. Chavez, will be speaking on “Oxidation and metals transport: Supergene accumulation profiles developed from the weathering of porphyry.”

We would like to extend an invitation to all interested parties to attend what we know will be an interesting lecture.

Mark your calendars for
Friday, May 3, 2002
University of Nevada, Reno
College of Education Building, Room 2030
Reception immediately following in Room 2028

Hosted by Center for Research in Economic Geology
Tommy Thompson, Director

NEWS: GEOLOGIST LICENSING IN WASHINGTON STATE

The Geologist Licensing Board has filed a CR-101 pre-proposal of inquiry on February 20, 2002. This filing will be for the creation of a new WAC chapter to implement the rules of professional conduct for geologists licensed in Washington. In addition, they will be amending WAC 308-15-040 for clarification.

This information comes from Susan Colard, Geologist Licensing Board, PO Box 9045, Olympia, WA 98507-9045
Ph: (360) 664-1497, fax (360) 664-2551.

If you would like to see the CR-101 document, please contact Laura Ruud at the GSN office.

MEMBER’S OPINION COLUMN*

Professional Registration for Geologists — Keep It Out of Nevada

William A. Fuchs, Consulting Geologist

A little over a year ago I moved from Nevada to Pennsylvania and ran directly into the wall of professional registration, which is required for a geologist to consult in Pennsylvania. It cost me about $1000 in direct costs to take the exam and get registered and about six months in lost work time. The issue of registration is somewhat dormant in Nevada at present, but it is spreading across the country and it will return. Fight it.

Registration in Pennsylvania was rammed through in 1992 by a small group intent on protecting their turf and excluding others from consulting. Sounds harsh, but the proof lies in a provision that excludes teaching experience from being applied to the 5-year professional experience requirement before being allowed to take the exam. Consulting professors were targeted for exclusion. Laboratory work has been sanctimoniously excluded from being considered as professional work. Nevada’s future proposed registration law may look different from Pennsylvania’s, but many states have exclusionary quirks and a code of ethics that addresses protection of turf more than public safety.

The infamous ASBOG exams (National Association of State Boards of Geology) are required for registration in 24 states (including California now). The two required exams (Fundamentals and Principles & Practice) are geared towards the generalist, but with a heavy tilt towards hydrogeology and environmental geology. If you are a specialist, you may as well fall on your sword. ASBOG claims in its website that registration is needed because 50% of all geologists are unqualified. That is because about 50% fail the combined exams. But that is the height at which they have arbitrarily set the bar. I know Nevada geologists who I am certain would not pass the exams, but who are far better at what they do in their particular niche than anyone else.

Registration restricts mobility in a class of people who need it to survive. Finally, registration is about money for the state — pure and simple taxation.

* This column does not reflect the views of GSN, its Executive Committee or its members. Opposing opinions are welcome for future publications.
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Vic Ridgley

The Rules: Claim maintenance used to require documented annual assessment work of $100 per claim. Lapsed claims could be restored by resuming assessment work later, provided there were no intervening claim-stakings (“overstaking”) filings by new claim owners...

The Players: Denys, a short-order cook who, in 1969, had filed claims in the Rawhide Mountains and done no assessment work since. George & Vic, two young geologists. Jim, the voluble and gregarious landman. Frenchie, their corporate employer. Two unnamed security guards, and their unnamed boss, the guard service owner (GSO).

The Story: George & Vic’s summer, 1974 uranium reconnaissance in the Arizona desert persuade them to stake claims in the Rawhides. They descend on the site on August 28th, and verify the absence of competing claims, finding only Denys’ original 1969 claim posts. Jim checks courthouse records in Kingman, and mentions upon return that while chatting up the county clerk, Denys’ girlfriend, he blurted out that G&V are picking up where Denys left off...

Panicked, G&V spend the 30th in town, drawing up a claim map, writing discovery notices, and ‘dumpster-diving’ for soda cans suitable for containers. A frantic 4-day dawn-to-moonlight campaign ensues to establish discovery lines for the claim block, followed by a daily grind: Install the corner and side-center posts. Days later, a directive from Frenchie: Repaper the claims with new discovery notices, to have documents dated before and after August 31: (this will strengthen the chain of title?). Beginning on September 14th, G&V repeat their earlier ordeal – dumpster-diving, notice-writing, and revisiting all their old discovery posts with new cans and notices. (During this episode, a scowling, beer-bellied Denys shows up on the 17th and declares his anger at Frenchie’s behavior. G&V smile sweetly, provide Frenchie’s corporate address and phone number, and begin repapering claims. Denys slows them down that afternoon – forcing them to crawl from post to post – by using them for .22-caliber target practice).

G&V’s contractors begin an assessment-cum-validation-hole program (depending on which edition of the paperwork you are willing to believe), and they work unmolested for a week. Then, a guard hired by Denys from a Kingman security service confronts the G&V show (geos, drill, cat) at the property line. He decrees: “I am serving notice. You are trespassing on Denys’ property. If you persist, I will put a bullet in the radiator of the drill rig, and you will be subject to the full penalty of the law. I am authorized to stop you from drilling.” Back to town to regroup. Calls to Frenchie and lawyers. The lawyers call the GSO. Saturday morning, a repetition of Friday’s scene. The GSO has decided, against Frenchie’s legal advice, not to back down. Sunday morning, Frenchie’s lawyers persuade the GSO to yield. The GSO calls Denys. Denys calls the driller and threatens to personally put a bullet in his radiator. The driller calls G&V to quit. G&V recruit a braver (or more foolish) driller, and grant him legal indemnification, including buying him a new drill, or looking after his wife and children, as the case may be.

October 11th, G&V show up with their new contractors. Frenchie thinks it would be smart to protect them better, so...Frenchie calls the GSO to supply a man. Not one to miss an opportunity, the GSO calls Denys and says, “Say, do you know that Frenchie is trying to get on your property again? Don’t you think you need protection?” Denys: “Yes.” Instead of just one guard, now there are two. They ride down from Kingman together in one truck, take positions on each side of the property line, and defend their respective turfs: Denys’ guard (inside the line): “You are trespassing on Denys’ property. If you persist, (blah, blah, blah)...” Frenchie’s guard (outside the line): “You are interfering with legal mineral exploration activities under the Mining Law of 1872...(more blah, blah, blah).” After exchanging business cards, the caravan drives to the current drill hole, where the speeches are repeated less energetically, and work resumes.

Over time, relations deteriorate. Denys’ guard drives to a telephone, and triggers a plan to have the entourage arrested for trespass. The Mohave County Sheriff arrives to serve the warrant. G&V politely explain that he is out of his jurisdiction (on BLM land), the warrant is improperly drawn (wrong legal description), and that any arrest will be met by charges filed against him and the county for false arrest. G&V will NOT consent to stop drilling, but the group offers to surrender that night in town. He demurs, promising instead to appear the next morning with a properly-drawn warrant and enough vehicles to take all the lawbreakers in. He then asks for directions to tomorrow’s drill hole, so as to be able to find the crew for the arrest. Late-night phone calls from Frenchie’s lawyer to the authorities end the fracas. Drilling continues, no uranium is found, and Denys yields the property - gracelessly - in court two months later. He does, however, suggest in court that he and Frenchie have been snookered by the GSO: both of them should have cooperated to the extent of sharing the cost of one guard, instead of each hiring his own!

(If you have a funny story to tell – please email it to Laura Ruud at the GSN office gsn@mines.unr.edu or fax it to 775/323-3599. All stories will be approved by the Executive Committee before publishing).
UP-COMING EVENTS


April 9 – Northwest Geological Society meeting. Student posters/presentation night. Cosponsors AEG & AWG. University Plaza Hotel, 400 NE 45th St., Seattle, WA. George Bennet, Consultant, “Silica Mining in Washington.” Dinner reservations: Art Coulter, coulters@worldnet.att.net.

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April 12 – Northern NV section of SME meeting. Noon at the Bonanza Casino, Reno, NV. See the website for more information: www.smennv.org.


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September 22-29 – AEG-AIPG 2002 Joint Annual Meeting “Gambling with Geologic Hazards,” Peppermill Hotel, Reno, NV. Contact: Julie C. Keaton, AEG Meetings Manager at 909-337-0657 (aegjuliek@aol.com), or Jon Price at 775-784-6691 extension 126 (jprice@unr.edu). See AEG’s web page: http://www.aegweb.org.

ADVENTURES AT THE PDAC IN TORONTO

The GSN’s Exhibit was on the road to Toronto last month and it was a successful trip for the Society. The GSN office manager would like to pass on a little advice to those venturing to Canada - DO NOT believe the airplanes when they tell you that a Driver’s License will get you to Canada. A passport or original birth certificate was the only form of ID acceptable to the gate attendants in Columbus, OH. It was not a fun flight back to Reno to retrieve the proper docs!

After arriving Sunday night, I found the booth had been set up and publication orders had already been taken. Thanks to Dave Shaddrick, Greg French, Elizabeth Zbinden, Bob Hatch and Jonathan Price for getting things going and helping out all week in the booth. Sales were brisk and interest in Nevada is definitely on the upswing. We saw many friends of Nevada, old and new, who are now living in places far and wide. The attendance was estimated at 7,000 people, and I think just about everyone of them stopped by the booth to chat or at least pick up a free pencil, magnet or bumper sticker. Thanks to Alan Coyner and the Nevada Division of Minerals for providing those items for the booth.

The GSN wishes to acknowledge the generosity of the folks at ALS CHEMEX for helping out with Laura’s room and board while she was attending the PDAC in March. It really helps keep the convention expenses down, so THANK YOU! Also, thanks to all the guys that carried boxes for the booth at PDAC. You are much appreciated!

WHAT A PIT CONTEST

Visit the GSN website, www.gsnv.org

Check out the new “pit” photo. All correct answers received at whatapit@gsnv.org will be pooled for three weeks after the contest picture is posted, and the winner will be picked at random from this pool. The winner will receive a fabulous GSN pin! If you have questions, please contact Mario Desilets, GSN Webmaster, at the same email address. Good Luck!
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