Charles Greenhaw, a western historian and emeritus dean at Great Basin College, warmly addressed a capacity crowd at Reno GSN’s Christmas party. Dr. Greenhaw’s subject was the plight of the 49ers, who dared venture the roughly 2,000 miles from the stepping-off point of St. Joseph on the Missouri River across the western frontier in wagons and on foot to their final destinations among the many mining camps of California’s Mother Lode. The number of emigrants who utilized the Gold Rush Trail through Nevada from 1849 through 1850 is estimated at 69,000. Such faith and fortitude we could use more of today. The sights, events, and drama of their adventures, from mundane to extraordinary, were captured explicitly in the diaries and drawings of J. Goldsborough Bruff, the leader of the Washington City Company’s party. No other set of documents so thoroughly records the virgin scenes that unfolded before the eyes of these
(Continued from page 1)

early explorers. Bruff was an amateur artist and a surveyor, and more important than the artistic accuracy of his drawings are his copious notes. His pen never sat idle as he tirelessly scribbled in words and pictures, documenting the chapters of this Wonderland that so captivated its new and unknowing audience. The first three quarters of the journey west coaxed many an emigrant into a false sense of comfort and ease, passing through the relatively benign and endless horizon that are the plains of Nebraska and Wyoming. The trip got harder by the mile, though, and the sections through Nevada following the Humboldt River must have seemed a cruel joke to many who had gone so far only to face the parched earth of the Humboldt Sink before scaling the fortress that is the Sierra Nevada as winter approached. Few emigrants along the Gold Rush Trail had anything good to say about the Nevada segment. Gold Rusher James Evans wrote of the Humboldt:

"Perhaps the Devil himself having cast his eyes over the world concluded to try his hand at making a river. He made it in the night and laid it down so crooked and ragged, that just at break of day when he stopped to look back at it, he got ashamed of himself and ran it into the ground." And on first seeing the Basin and Range from Granite Pass in the Goose Creek Range, 49er Alonzo Delano commented on the landscape before him: "It had evidently been the scene of some violent commotion, appearing as if there had been a breaking up of the world."

The scenes that Bruff portrays in his writings and drawings from 1850 are familiar to Nevada geologists and frequent flyers along I-80 alike, and each has a geologic story underlying its human ones. Bruff’s scenes include Thousand Springs Valley north of Wells, the East Humbolds and Rubies, Elko Hot Springs, Carlin Canyon, Palisades, Emigrant Pass, the Humboldt at Beowawe, tilled strata of Shoshone Mesa (now, Argenta), Battle Mountain, Iron Point and Golconda, the volcanic pinnacles of the northern Sonoma Range, Button Point, the Hot Springs Range, Blue Mountain, Humboldt House, and Lassen Meadows (now, Rye Patch), among others. These points represented stops along the way, cairns that marked the trace of the Gold Rush Trail, large segments of which later became the obvious routes for the Central Pacific Rail, Victory Highway, Highway 40, and finally, I-80.

A good trail is one that stands the test of time, that is, geologic time. There is a geologic basis for a flat ribbon of land that cuts the structural grain in a mountainous terrain. Despite its rugged surroundings, the Humboldt rarely seems in a hurry. Why should it? Its fate as vapor rising from the shimmering salt flats seems somehow disappointing. The Humboldt has a gentle gradient for a western stream, dropping a little more than 1,500 feet over 350 miles from its headwaters north of Wells to its final resting place in the Humboldt Sink. It is an old stream amid a youthful landscape. Alan Wallace's recent work on the Tertiary sub-basins within the Humboldt River drainage suggests today's Humboldt mimics the mid-Miocene Humboldt, the modern stream successfully incising its ancestral deposits in response to a lowering of its base level due to down-dropping to the west. For the forty-niners, the Humboldt’s success at exhumation meant a flat, dusty course and poor water, which was drinkable only when you really needed it. Its westward course was the only obvious one amid a maze of road blocks: steep and dry, north-trending ranges and deep, narrow valleys. Jim Faulds and others, studying the swath of geothermal activity in the Humboldt drainage, attribute unusually high heat flow to transfer of dextral strain from the northern terminus of the Walker Lane to a broad zone of WNW extension along their Humboldt structural zone. Without doubt, high heat flow and extensional tectonism contributed to the formation of many young (<6 Ma) Au-Ag deposits within the Humboldt corridor. Even more intriguing is the relationship, if any, of the corridor to the decidedly older Carlin-type gold deposit camps of north-central Nevada, which also cluster suspiciously near the mighty Humboldt. The 49ers, eager to get to established camps in the Mother Lode walked over a goldfield of similar proportions, but so obscure were its deposits that it would take over 100 years to fully appreciate and exploit its resources.

As winter takes hold of northern Nevada and field work dwindles to a Humboldt trickle, I recommend Keith Meldahl’s book called, “Hard Road West.” Meldahl does a good job of weaving geologic history in with emigrant history over the entire Gold Rush Trail, and several of its later chapters cover the trail’s segments in northern Nevada and along the Humboldt River, of course, using Bruff’s drawings as a foundation.

From long ago, to back to the future, January’s Reno GSN talk will be on Innovations in Geology: Digital Mapping, Logging, and Data Management by Sean McCann of Newmont Mining Corporation. Sean is a managing geologist at the Leeville Mine on the Carlin Trend, where safety concerns in the underground mine spawned a new set of tactics in acquiring basic geologic information. Please join us on January 15th for Sean’s talk.

GSN heads into 2010 a healthy and active organization. We have a new office and warehouse thanks to NBMG. We are 1,000 members strong, including over 100 students. We are gearing up for our 7th symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin. We look forward to your continued support of the symposium, including many opportunities for volunteers. Thanks to you, the GSN Foundation is also doing well – the symposium, in May, which will focus on the geography we know best – the Great Basin.

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Best wishes for a healthy and prosperous New Year,

Mike
GSN January 15, 2010 Membership Meeting

Reservations Are Required - Please Cancel if You Are Unable to Attend

The reason we need reservations and also cancellations is because our caterer needs to know how many people to cook for. At the September meeting too much food was prepared because of no shows.

GSN CAN NO LONGER GUARANTEE DINNER SEATING WITHOUT ADVANCE RESERVATIONS.
Please call 775-323-3500, Fax 775-323-3599 or e-mail gsn@gsnv.org by 1:00 PM, Wednesday, January 13, 2009.
Social Hour: 6:00 PM – Dinner: 7:00 PM – Speaker: 8:00 PM
$17.00 per person

Location: Elks Lodge, 597 Kumle Lane, Reno, NV
Directions: across (W) from the Reno-Sparks Convention Center
(S. Virginia Street, behind the Les Schwab Tire Center)

Prepaid dinner reservations will only be accepted for the current monthly meeting.
Cancellations must be received two days before the meeting in order for your money to be refunded.

Download the prepayment form from the GSN website: http://www.gsnv.org/membership.html

Technology and Innovation in Geology

Sean McCann
Chief Geologist –Leeville Mine
Newmont Mining Corporation

Technology is a word that elicits varied responses from those who hear it. The stereotypical geologist is thought to fear technology more than the notion of evolution being disproved. However, this talk will display that innovation and technology serve a role in our business whether that be new discovery or the latest mining application. Over the past two decades we have witnessed remarkable advancements in the tools that enable us to perform our jobs. Claim staking, prospecting, mapping, geophysics, geochemistry, and ore control are all fundamental aspects of our profession that continue to change due to innovation. Embracing technology is a required element for us to stay a step ahead of our competition and to be successful in our future endeavors.

Brief Biography

Sean has worked in the mining business for Newmont since 1987 as a freshman intern. His business card has changed only due to M&A’s (Noranda to Hemlo, to Battle Mountain Gold to Newmont). The first 15 years of his career were spent in Ontario, Canada, exploring for gold in Archean greenstone belts. Over the past years he has learned to become chief geologist at the Leeville underground mine. Obviously, Sean is a champion of utilizing new technologies.
GSN 2010 SYMPOSIUM, MAY 14-22
John Ascuaga’s Nugget, Reno/Sparks, Nevada

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MID-JANUARY 2010

Technical Sessions:
• Carlin-Type Deposits I and II
• Great Basin Metallogeny
• Nevada Geology and Tectonics
• Discovery Case Histories
• New Mine Developments
• Volcanic-Hosted Epithermal Deposits
• Young Au-Ag Hydrothermal Systems

• Styles of Tertiary Magma-tism and Metallogeny
• Exploration Geophysics
• Intrusion-Related Deposits
• Geothermal
• Rumors from the Bush—Great Basin Exploration Update
• Outta the Box— Concepts in Great Basin Geology and Ore Deposits
• Exploration Remote Sensing
• Regional Exploration Roundup
• World Exploration
• Exploration Success—Americas

Field Trips:
• CARLIN GOLD DEPOSITS—3 TRIPS
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• PORPHYRY AND IOCG DEPOSITS
• MODERN AND ANCIENT GEOTHERMAL SYSTEMS
• INDUSTRIAL MINERAL DEPOSITS

Short Courses:
• SEG WORKSHOP—GOLD IN 2010—
• STRUCTURAL SYSTEMATICS
• FUNDAMENTALS OF NI 43-101
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GSN Winnemucca Chapter Meeting
January 12, 2010

“Dewatering and Subsidence at the
Lone Tree Mine:
Analysis by Groundwater Modeling”

Sandra J. Hodges
Senior Hydrogeologist
ITASCA, Denver, Inc.

The Lone Tree mine is located about five miles west of Valmy, Nevada. Dewatering began at the Lone Tree mine during late 1991 and continued until December 2006. Water levels within the pit were lowered about 890 feet by the end of mining. A groundwater model supported the Environmental Impact Statement (EIS) and has been regularly updated since that time. Groundwater modeling has been key to the understanding of the hydrogeology of the mine and surrounding area. Bedrock of the area has been modeled using a horizontal hydraulic conductivity of up to 100 feet/day. Alluvium in the valleys reaches depths of over 2,500 feet and is a complex mix of fine-grained lacustrine, volcanic and distal fan sediments. With the exception of proximal fan sediments on the mountain flanks, the alluvium is observed to have a very low hydraulic conductivity.

Subsidence due to dewatering has been observed as cracks on the land surface and has been measured by surveying and data interpretation techniques using Interferometric Synthetic Aperture Radar (InSAR), a recently developed remote sensing technology. The area of subsidence appears to match the measured/model predicted area of groundwater drawdown in the bedrock. Because of the shallow completion depths, very little, if any, drawdown has been measured in the alluvium except in very deep alluvial piezometers. The amount of subsidence seems to be related to the thickness of the alluvium and the amount of drawdown measured in the bedrock. It is hypothesized that the lower layers of the alluvial sequence, that are in contact with the underlying depressurized bedrock, have had reductions in head in an area that mimics the bedrock drawdown pattern.

Groundwater modeling indicated the presence of a structure to the west that acted as a leaky barrier to groundwater flow within the bedrock. InSAR data interpretations show a distinct structure limiting the amount of subsidence, and by inference, the structure acts as a barrier to groundwater flow within the bedrock. InSAR interpretations also helped refine specific storage values used in the groundwater model.

In areas with changes to groundwater levels, such as where mine dewatering is occurring, InSAR data interpretations of subsidence may be an appropriate tool to use in determining appropriate locations for an expanded groundwater monitoring network, or to indicate that the current monitoring network is adequate.

The current groundwater model is well calibrated and predicted water-level recovery in the pit lake and surrounding areas matches measured field data.
Thank you again for supporting the GSN Foundation through the annual Christmas membership meeting auction and raffle which raised $10,123 to support our activities. To all of you who supplied auction and raffle items know that you are greatly appreciated. It would be impossible to hold the fund raiser without your contributions. Special thanks go to Scott Werschky for supplying the Round Mountain gold specimen, and Mark Stock and Neil Prenn for the numerous mineral specimens. Of course thank you to all that bought raffle tickets and bid on the several auction items. Finally, D.D. Lapointe, Rachel Dolbier, and Ruth Buffa you are the best for organizing the event.

Roger Steininger
Chair & Executive Director

The GSN Foundation would like to sincerely thank the following donors to our 2009 Raffle and Silent Auction:

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We’d also like to thank everyone who bought tickets and made bids. Without your support, we couldn’t do what we do! Happy New Year to everyone.

Rachel Dolbier & D.D. LaPointe, GSN Foundation
Great Basin Gold Ltd. announced that recent drill results at the Hollister Project include 0.8 meters @ 11.732 opt Au, 111.98 opt Ag (HSD-84); 1.4 meters @ 63.174 opt Au, 155.23 opt Ag (HSD-85) and 1.3 meters @ 26.068 opt Au, 235.83 opt Ag (HSD-86). (resource = 1,111,000 tons @ 1.172 opt Au, 8.63 opt Ag measured+indicated) M.J.: October 30

International Minerals Corp. announced that it offered to acquire Metallic Ventures Gold Inc. for $24,000,000 and 8,500,000 shares. (resource @ Converse = 262,350,000 tons @ 0.018 opt Au measured+indicated) Press Release: November 2

Western Lithium Corp. announced that it terminated its offer to acquire Rocky Mountain Resources Inc. (resource @ Gibellini = ?) N.M.: November 16

Rye Patch Gold Corp. announced that recent drill results at the Lincoln Hill Project include 18.3-45.7 meters @ 0.021 opt Au, 1.31 opt Ag (LR-026); 21.3-25.9 meters @ 0.012 opt Au, 0.70 opt Ag (LR-027); 4.6-7.6 meters @ 0.011 opt Au, 0.12 opt Ag (LR-028) and 97.5-105.2 meters @ 0.023 opt Au, 0.34 opt Ag (LR-029). Press Release: November 13

Rye Patch Gold Corp. announced that it acquired an option to purchase a 64% interest in the REN Property from Centerra Gold (US) Inc. for $42,000,000 in cash and shares. (resource = 3,290,000 tons @ 0.372 opt Au measured+indicated and 918,000 tons @ 0.472 opt Au inferred) Press Release: November 18

New Dimension Resources Ltd.(30%) announced that recent drill results at the Reese River Project include 44.2-50.3 meters @ 0.44 opt Ag (RR-1); 48.8-62.5 meters @ 0.16 opt Ag (RR-5); 42.7-85.4 meters @ 0.13 opt Ag (RR-6) and 38-51.7 meters @ 0.05 opt Ag (RR-7). Press Release: November 2

Midway Gold Corp. announced that based on recent drill results at the Pan Project, resources aggregate 34,650,000 tons @ 0.018 opt Au measured+indicated and 1,600,000 tons @ 0.017 opt Au inferred. (was 18,960,000 tons @ 0.019 opt Au measured+indicated and 8,300,000 tons @ 0.017 opt Au inferred) Press Release: November 5

Klondex Mines Ltd. announced that recent drill results at the Fire Creek Project include 885-945 feet @ 0.124 opt Au, 0.31 opt Ag (FC09-01); 1,035-1,055 feet @ 0.055 opt Au, 0.09 opt Ag (FC09-02); 915-943.2 feet @ 0.730 opt Au, 0.47 opt Ag (FC09-03) and 727.8-745 feet @ 0.312 opt Au, 0.57 opt Ag (FC09-04). (resource = 5,547,000 tons @ 0.296 opt Au indicated) Press Release: November 18

Canada Lithium Corp. announced that it terminated its interest in the Nevada Brines Project with Gold Summit Corp. Press Release: November 5

AuEx Ventures Inc.(49%) announced that recent drill results at the West Pequop Project include 1.0-10.0 feet @ 0.023 opt Au (WNC150); 965-980 feet @ 0.038 opt Au (WN151); 376-383 feet @ 0.022 opt Au (WNC154) and 620-690 feet @ 0.031 opt Au (WN158). Press Release: November 17
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