FROM THE PRESIDENT
Ellie Davie Leavitt, GSN President 2006-2007

The end of 2006 marks a very successful year for the Geological Society of Nevada. GSN now boasts 955 members, and continues to grow to near record levels. The 2006 Spring and Fall field trips were full and included tours of geology and mineral resources in Nevada, some new to GSN, as well as revisited but with updated geology and resources. Accompanying guidebooks include original and newly published papers on these areas. Sponsorship of these trips provided the opportunity for four student members to attend. Students are attending the monthly dinner meetings in record numbers, with GSN members providing dinner sponsorships and Geotemps, Inc. providing membership dues for all earth science students.

The annual Christmas party raised a record $13,132 through the raffle and silent and live auctions. These funds are going to the Foundation fundraising goal to increase the endowment to a self sustaining level to provide for its philanthropic activities. We are past the halfway mark.

continued on page 2
GSN Chapters are increasingly active hosting monthly meetings and talks. About 30 abstracts that were generated by all GSN meetings in 2006, document the many and varied topics, and excellent speakers; these will be included in the 2006-2007 directory. GSN Chapters have taken on fundraising as well. The Southern Nevada Chapter generated $200 at their silent auction in December.

With Northwest Mining Association’s annual conference in Reno for the first time, GSN and NWMA entered a new partnership. GSN members planned field trips for the conference, and obtained sponsors. The conference, though not GSN’s, boasted record numbers of attendees, technical sessions, and booths; GSN raised over $600 through a raffle held at our booth with a donated mineral specimen from Scott Werschky of Miners Lunchbox. Thanks Scott!

All of this positive activity has taken place during a resurgence of minerals exploration, and demand for geologists throughout the state and worldwide. The ongoing generosity of members and sponsors, most of whom have experienced less encouraging times as well, has enhanced our viability as a non-profit organization. Too many to mention by name here, we wholeheartedly acknowledge and thank all of our sponsors throughout the year. Lastly, the success of GSN would not be possible without the dedication of an outstanding core of volunteers and staff who are responsible for the day-to-day workings of the organization. Be sure to give them a big pat on the back, and consider joining them this year.

So after such a great year, what’s next? In accordance with the stated mission, GSN will continue to promote the geological sciences, and earth science education through the Foundation. The active social calendar and networking show no signs of slowing down. We’ll enter the new year with a talk on Mars titled, “The Mars Exploration Rover Mission: 2+ years of sand, sulfur and spectra” by Wendy Calvin of UNR at the membership meeting, Friday, January 19, 2007. The following months will include membership meeting presentations on mineral deposits throughout the world. A student poster competition at the February meeting will highlight the work of our University members’ talent. Chapter meetings will continue to present an array of talks on geology and mineral deposits as well. With all of this going on, we hope there is something of interest to all. See you soon!

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THE JOHN MACKAY CLUB

My name is John Gates and I would like to take this opportunity to introduce the John Mackay Club to the reader. The John Mackay Club is the SME student chapter on the UNR campus and as president I strongly recommend membership and activity in the society to our members. With a strong past in achieving goals, including recently raising funds to compete in the 2006 Intercollegiate Mining Competitions in Kalgoorlie, Australia, we are actively pursuing and supporting ideas for future achievements. We are also trying to encourage underclassmen from mining engineering, geological engineering, and other related disciplines in the Mackay School of Earth Sciences and Engineering, to join and participate in our club activities. The Mackay Mining Team will again compete in the Intercollegiate Mining Competitions, held in Tucson, Arizona for 2007. Also, we plan on visiting active mining and exploration operations and are hoping to attract speakers who would like to expound on their personal experiences in the minerals industry. If you would like to speak to our club or invite us to view an operation, please feel free to contact me at jgates@unr.nevada.edu or contact Dr. Dan Taylor at dtaylor@mines.unr.edu. Thank you for your interest.

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STUDENT POSTER COMPETITION
February 16, 2007
GSN Membership Meeting, Reno

GSN invites student members to submit posters summarizing their geologic research to GSN for a competition to be held at the general membership meeting, Elks Lodge, Reno, on February 16, 2007. Review of posters will begin at 6 PM. Abstracts should be submitted by February 9, 2007 to GSN@mines.unr.edu. Cash prizes will be awarded to first and second places. Members interested in judging and anyone interested in sponsoring prizes please contact Ellie Leavitt at zoracdavie@aol.com or Laura Ruud at the GSN office, 775-323-3500.

Visit our website at www.gsnv.org

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Thanks to Agnico-Eagle (USA) Limited for hosting the December meeting.
THE MARS EXPLORATION ROVER MISSION: 2+ YEARS OF SAND, SULFUR AND SPECTRA

Wendy Calvin, Research Assoc Prof, Geological Sciences, University of Nevada, Reno

The twin Martian rovers, Spirit and Opportunity, landed in January of 2004 to carry out the mission of tracing the geological and geochemical evidence of water on the surface of Mars. The landing sites, Gusev Crater and Meridiani Planum, were selected based on orbital evidence of the potential for a “watery” past. Over 2 years and more than 15 kilometers combined, these robot explorers continue to unveil the surface through optical and infrared spectroscopy, Moessbauer, APXS and magnetic studies, and a wealth of imagery from microscopic to panoramic scales. Highlights of the mission include the discovery of hematitic spherules, “blueberries”, in layered sediments at Meridiani, active dust devils at Gusev, and a wealth of information on aqueous alteration of surface materials dominated by the formation of iron oxides, oxyhydroxides, and sulfates, with limited evidence for phyllosilicates. These results point to alteration in an acidic, water-limited environment, early in the planets history. A summary of the missions’ accomplishments and major scientific findings to date will be presented.

GSN / NWMAFIELD TRIPS

Some of you may have noticed the announcements for the GSN / NWMA field trips that were sent via email, in the GSN newsletter and in the NWMA registration brochure. Well, the field trips actually took place. These trips were a cooperative effort between the GSN and the NWMA. This is the first time the GSN has helped the NWMA in regard to planning and scheduling field trips. On first pass, the cooperation appears to have been beneficial to both organizations.

Four tours were originally scheduled and two actually left for their planned destinations. Tour 2 – the Metallurgical Tour and Tour 4 – the Geology Tour had a combined total of 38 participants. The group left Reno on Friday night and returned on Sunday. Two evenings were spent in Elko. Stockmen’s appears to be the best bet in Elko as far as price goes and the dinner was “really quite good”. The Gold Quarry open pit, Rodeo underground and Smith underground mines were visited on the geology tour and many of the Newmont processing facilities along the Carlin and Battle Mountain trends were visited on the metallurgy tour. Weather caused a few issues during the tour of Gold Quarry, but the group was still able to see core and some of the pit. No one got lost on either tour, so all in all they were a success. Barrick, Newmont and Queenstake participated in these tours, and the GSN is very appreciative of their support. Also, the GSN extends a big thanks to Eklund Drilling Company, Kappes Cassiday and Associates, and Nevada Mining Association. The GSN has the best sponsors around. Thank you.

D.D. LaPointe and Marilyn Miller pose with the gorgeous apophyllite specimen donated by Scott Werschky of Miners Lunchbox.
Queenstake Resources Inc. announced that it will cease production from the higher cost portions of the Smith and SSX mines that are below the current water table, reduce contract-mining development activities and conduct other cost saving measures at its Jerritt Canyon Complex. (reserve = 3,070,000 tons @ 0.237 opt Au proven+probable)  

Great Basin Gold Ltd. (50%) announced that recent underground drill results at the Hollister Project include 133.6-135.4 feet @ 2.66 opt Au, 43.39 opt Ag (HDB-037); 334.1-355 feet @ 1.12 opt Au, 5.85 opt Ag (HDB-045); 132.4-136.2 feet @ 1.27 opt Au, 6.15 opt Ag (HDB-048); 92.2-95.3 feet @ 3.46 opt Au, 32.04 opt Ag (HDB-049) and 129.2-131.1 feet @ 7.42 opt Au, 41.6 opt Ag (HDB-062). (resource = 712,200 tons @ 1.295 opt Au, 7.03 opt Ag inferred)  

Miranda Gold Corp. announced that recent drill results at the Redlich Project include 155-215 feet @ 0.043 opt Au (R-77); 160-180 feet @ 0.015 opt Au (R-78); 205-210 feet @ 0.013 opt Au (R-88) and 230-240 feet @ 0.011 opt Au (R-90).  

Copper Canyon Corp. announced that recent drill results at the Longshot Ridge Project include 0-30 feet @ 0.31% Cu (06-10R); 95-220 feet @ 0.38% Cu (06-12R); 100-145 feet @ 0.46% Cu (06-16R); 85-115 feet @ 2.13% Cu (06-17C); 40-90 feet @ 0.80% Cu (06-18R) and 0-95 feet @ 1.08% Cu (06-19R). (resource = 16,100,000 tons @ 0.55% Cu)  

Western Uranium Corp. announced that recent drill results at the Kings Valley Project include 183-187 meters @ 0.026% U3O8 (KV-8); 244-259 meters @ 0.021% U3O8 (KV-10); 85-90 meters @ 0.093% U3O8 (KV-15) and 88-116 meters @ 0.180% U3O8 (KV-19). Also included in KV-19 was interval 104-115 feet @ 0.037 opt Au.  

Golden Odyssey Mining Inc. announced that it acquired an option to earn a 100% interest in the Golden Shirene Property from private interests for $175,000 cash over 10 years.  

Quadra Mining Ltd. announced that it now anticipates that copper production from the Robinson Mine will decline 8-10% during 2006 from previous estimates due to poor recoveries attributed to the presence of copper oxide minerals in the supergene zone at the Veteran Pit. (reserve = 160,067,000 tons @ 0.69% Cu, 0.007 opt Au proven+probable)  

Vista Gold Corp. announced that it is in the process of forming Allied Nevada Gold Corp., an entity that will hold its Nevada gold interests. (reserve @ Hycroft = 33,320,000 tons @ 0.020 opt Au proven+probable)  

Harvest Gold Corp. announced that it acquired an option to earn a 100% interest in the Rosebud Property from Nevada Eagle Resources LLC for $320,000 cash and 600,000 shares over 4 years.  

Staccato Gold Resources Ltd. announced that based on recent drill results at the Lookup Mountain Property, resources aggregate 5,490,000 tons @ 0.044 opt Au indicated and 8,550,000 tons @ 0.036 opt Au inferred. (was 4,753,000 tons @ 0.020 opt Au indicated and 8,268,000 tons @ 0.021 opt Au inferred)  

Gold Canyon Resources Inc. announced that recent drill results at the Cordero Project include 47.3-97.6 meters @ 45.8 grams/tonne Ga (C-81); 44.2-100.1 meters @ 57.5 grams/tonne Ga (C-83); 42.7-86.9 meters @ 34.5 grams/tonne Ga (C-85); 50.3-64 meters @ 126.2 grams/tonne Ga (C-86) and 22.8-48.7 meters @ 80.3 grams/tonne Ga (C-93).  

Golden Odyssey Mining Inc. announced that it acquired an option to earn a 100% interest in the Golden Shirene Property from private interests for $175,000 cash over 10 years.  

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M.J.: November 3

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M.J.: November 10

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UPCOMING EVENTS


Jan 4, Thursday – NV Petroleum Society. Speaker: Alan Chamberlain, Cedar Strat Corp. Title: “Elephant Hunting Heating Up in the Great Basin”. Austin’s Restaurant, 7671 South Virginia Street, Reno. Cocktails at 6:30 pm, dinner at 7:00 pm ($17 for members; $19 for non-members) talk following dinner. Contact Diane Phillips for reservations (required). 775/267-4663, email: trailsend@pyramid.net. For further information, please contact Sam Limerick at shlimerick@charter.net or 775/825-0640.

Jan 10, Wednesday – WINNEMUCCA CHAPTER MEETING. Speaker and topic to be announced. The Martin Hotel, W. Railroad and Melarkey Streets. Drinks at 6:30 pm, talk at 7 pm. Contact Ivan Johnston, Chapter President, for more info, 775/635-4292, Ivan.Johnston@Newmont.com.

Jan 18, Thursday – ELKO CHAPTER MEETING. Speaker and topic to be announced. Western Folklife Center, 501 Railroad Street, Elko, NV. Drinks at 6:00 pm, talk at 7:00 pm. Contact Richard Reid, Chapter President for more information at 775/778-3912, Richard.Reid@newmont.com.

Jan 19, Friday – GSN MEMBERSHIP MEETING. Speaker: Wendy Calvin, Research Assoc. Professor, Geological Sciences, University of Nevada, Reno. Title: “The Mars Exploration Rover Mission: 2+ years of sand, sulfur and spectra”. Reno Elks Lodge, 597 Kumle Ln, Reno, NV. Drinks at 6 pm, dinner at 7 pm ($17), talk at 8 pm. Contact Laura Ruud for reservations, 775/323-3500, gsn@mines.unr.edu.

Jan 25, Thursday – SO NEVADA CHAPTER MEETING. Speaker: Steve Rowland of the UNLV Department of Geoscience. Topic: Steve will talk on his recent research activities in southern Nevada. Refreshments at 6:00 pm, talk at 6:30 pm. UNLV Lily Fong Geoscience Bldg, Room 105, Las Vegas, NV. Contact Bruce Hurley, Chapter President at 702/295-1284, rocks2bwh@aol.com.


Feb 1-3 – The 6th International Industrial Minerals Symposium, Izmir, TURKEY. Contact: Erol Kaya (erol.kaya@deu.edu.tr) or register online at http://www.6iims.org/eng/registration_form.asp.

Feb 25-27 – 2007 SME Annual Meeting & Exhibit and 109th CO Mining Association’s National Western Mining Conference, Colorado Convention Center, Denver, Colorado. Register online at www.smenet.org or contact SME Conference Registration at 1-800-915-0618.

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GSN MEMBERS’
PERSONAL NOTES & NEWS

Career Related Moves


Members are encouraged to keep us informed about their own career related moves and awards, and deaths of GSN colleagues. Your information needs to be received by Laura at gsn@mines.unr.edu by the 21st of each month.
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Happy New Year
to our GSN members and friends
WOW!!! Thank you to everyone who helped make this year’s Rock Raffle and Silent Auction (and live auction) the biggest success ever for the GSN Foundation. The event netted $13,132, all due to those of you who donated items, bought raffle tickets, made winning bids and worked so hard during the meeting setting up tables, setting up the auction and raffle items, running the auctions, drawing winners, tabulating results and cleaning up afterwards. We would especially like to thank the following donors of raffle and auction items whose generosity made this event fun for all as well as a spectacular fundraiser for GSN Foundation’s educational programs:

Opal Adams & Rich DeLong & Enviroscientists, Inc.
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Susan Austin & Wild Horse Resort & Spa
Liz Ball & Leslie Rumph, Mackay School of Earth Sciences and Engineering Student Services
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• Our mission is to promote the advancement of the geologic sciences, especially as they relate to Nevada.

• The GSN provides a monthly newsletter, membership directory, and numerous publications about ore deposits in the Great Basin as well as the North and South American Cordillera.

• The GSN has monthly meetings and two field trips annually.

• Every five years the GSN sponsors a highly respected GSN Symposium. The next one will be held in Reno, Nevada in 2010.

For an application form, visit our website at www.gsnv.org or contact the GSN office at 775/323-3500 or gsn@mines.unr.edu