Student Chapter Annual Report Cover Page

Submission Deadline: September 30th
Submit to: studentprograms@segweb.org

Month/Year Reported: From ___________________________(mm/yyyy) – To _______________________________(mm/yyyy)

STUDENT CHAPTER:
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Chapter Executive Committee (in office during the time frame captured on this report) (type “Vacant” if position not filled):
The new committee is reported on the Student Chapter Membership Information form (SCMIF).

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Sponsoring Institution or Company(name):
UNLV SEG Student Chapter Summary of Activities (Supplement to Annual Report Form) - 2019

Prepared by: Drew Barkoff (Chapter Treasurer)

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And

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The numbers for each of these explanations corresponds to the numbered questions contained in the SEG Student Chapter Annual Report Form.

1 – The UNLV SEG Student Chapter holds regular meetings every other Monday from 11:30 to 12:30 and on Fridays preceding weekend field trips. During regular meetings we provide updates from the committee on the status of our funds, recent chapter activities and events, and upcoming activities and fundraisers. For Friday meetings preceding weekend field trips, the executive committee members take turns presenting an overview of the regional and deposit geology, so the group as a whole will have the appropriate background information to understand what we see in the field. If relevant, some mining history and ore processing information will also be added to the presentation, to give better context for why a particular deposit may or may not have been economic, and why it was or was not mined. The Executive Committee usually stays after all meetings to discuss future plans, finalize field trip logistics, break down fundraising efforts, and go over minutes and membership. These meetings are all open to any interested students, as our field trips have been a successful means for attracting new members.

2 – Thus far, our one day field trips include: the Iron Springs district in southern UT to see magnetite-apatite (IOA) veins and potential IOCGs, the Goodsprings district in southern NV to see a variety of Pb-Zn-Cu sedimentary replacement deposits, the Mineral Park and Chloride districts in Northern AZ to see intrusion-related Au-Ag-Cu mines, and the Mountain Pass carbonatite in southern CA in conjunction with the UNLV Department of Geoscience Annual Geosymposium event. We recently held our first two-day field trip to a number of mines and mineral deposits in Southern UT associated with high-silica rhyolites, including some inactive Be and U mines and a visit to the Pine Grove porphyry Mo deposit. The second day was an opportunity to visit some mineral collecting localities where students were able to collect samples of amethyst, smoky quartz, bixbyite, and rutile. Our next field trip will take place on the 9th of November 2019 and will focus on the Bullfrog District of southwestern NV. This trip will be led by Richard Bedell, the former president of Renaissance Gold. The purpose of this trip will
be to gain a better understanding of epithermal gold mineralization, as well as the business of finding, delineating, and exploiting a resource. A future trip, planned for spring 2020, will be another two- to three-day trip to the Yerington district, NV to learn about porphyry, skarn, and associated mineralization in this well-exposed district.

Trips are organized and led by members of the Executive Committee, and have been undertaken in conjunction with both industry and the UNLV. The Mountain Pass trip was organized by our Student Chapter for the annual UNLV Geosymposium with funding from Newmont Goldcorp, and the upcoming Bullfrog District trip has been organized in conjunction with Renaissance Gold.

Our trips generally attract a group of 8-15 people, with the Mountain Pass trip bringing in a group of 26 students, faculty, and industry representatives.

3 – Our SEG student chapter has not received any Stewart R. Wallace funding since our re-inception in March, 2018.

4 – Members of our student chapter have participated in the planning and organization of the UNLV department of geoscience annual research symposium (Geosymposium) for both 2018 and 2019. For Geosymposium 2019, the student chapter was the sole organizer for the associated field trip to the Mountain Pass carbonatite. Our chapter is also in the process of planning a potential short course focused on critical metals or gold in the Southwestern US. Our SEG Student Chapter Advisor, Simon Jowitt, has already agreed to speak and we are in the process of asking other UNLV professors such as Jean Cline (emeritus) and local geologists working in industry to see if they would be willing to present their research as part of our short course or if they are willing to attend. The UNLV department of geoscience has a sizeable collection of ore and ore-associated rock specimens from a variety of deposits across the western US, so there will be a focus on how to recognize prospective features and different alteration styles in the field. This course is planned for the spring 2020 semester and will be open to all chapter members, as well as other interested students.

5 – Members of our chapter have attended and presented at a number of professional conferences since our chapter was reinstated in March 2018:

- In May 2018, one member attended the GSA Rocky Mountain and Cordilleran section joint meeting in Flagstaff and gave a talk on the emplacement and redistribution of rare metals in rhyolites.
- In June 2018, one member attended the Resourcing Future Generations (RFG) conference in Vancouver and gave a talk on the behavior of metals in highly evolved rhyolites.
- In July 2018, three members attended the Middle-Lower Yangtze Metallogenic Belt conference in Hefei, China, with one member giving a talk on skarn mineralization.
• In September 2018 one member attended the SEG annual meeting in Keystone, CO and presented a poster on emplacement and redistribution of rare metals in rhyolites.

• In June 2019, one member attended the 9th International Symposium on Granitic Pegmatites, Pala, CA and presented a poster on the economic potential of rare-metal pegmatites in the North Virgin Mountains.

• In October of 2019, two members attended the SEG annual meeting in Santiago, Chile. One presented a poster on the petrogenesis of rare-metal pegmatites and one presented a poster on the distribution of gold resources in South America.

• More than half of student chapter members have also presented and attended the UNLV department of geoscience annual research symposium (Geosymposium).

These experiences have given our members the opportunity to experience giving presentations to industry and academic professionals at formal conferences, as well as the opportunity to network and learn about the wide range of career options available within economic geology.

6 – In the short term, we are solely reliant on our two, ongoing fundraising ventures, namely the selling of UNLV SEG Student Chapter t-shirts and beer mugs. We have already broken even and made a small profit (~$140 profit so far) with plenty of product left for sale. If we sell everything we ordered, plus what we have already sold, we should have close to $800 to put towards some of the more expensive field trips, as well as the short course we are planning. Our second venture is the sale of candy bars in conjunction with two other geoscience organizations at UNLV (AAPG and AEG). Costs and profits will be divided three ways.

7 – Other activities include the promotion of SEG membership and benefits, as well as making student members aware of application deadlines for SEG funding and events.

8 - In the near future, the UNLV SEG Student Chapter intends to hold a minimum of three field trips per semester to deposits within driving distance, with the intent to raise enough funds to plan longer trips to localities further afield as the chapter grows. In addition, we hope to continue improving our relationship with industry, in the hopes of gaining access to more active mine sites in the future.