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:
Name: University of Campinas (UNICAMP) Society of Geologists Student Chapter
University Affiliation: 2009
Mailing Address: Institute of Geosciences, University of Campinas, 250 Carlos Gomes, Campinas, São Paulo, 13083-855, Brazil
Dedicated E-mail: unicamp.segchapter@gmail.com
Website: http://unicamp-seg.webs.com
Logo:
Facebook: @unicampsegchapter
Twitter:
Instagram: @segunicamp
LinkedIn:
YouTube:

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).
President: Raphael Bianchi Hunger  raphael.hunger@gmail.com
Name
E-mail
VicePresident: Bruno Conty Serrão dos Santos  b.contyufopa@gmail.com
Name
E-mail
Secretary: Thais Caroline Murer  thaismurer@gmail.com
Name
E-mail
Treasurer: Poliana Vidal Salgado  poliana.vs@outlook.com
Name
E-mail

Chapter Academic Sponsor: Álvaro Penteado Crósta  alvaro@ige.unicamp.br
Name
E-mail
Institute of Geosciences, University of Campinas, 250 Carlos Gomes, Campinas, São Paulo, 13083-855, Brazil
Address
Phone +55 19 3521-5120
Fax

Chapter Industry Sponsor (not affiliated with the student chapter’s institution):
Francisco Inácio de Azevedo Jr.  chicoazevedo11@gmail.com
Name
E-mail
157, Perobas Str., Chácara Flora Condominium, Valinhos-SP, Brazil
Address
Phone +55 11 981957897
Fax

Sponsoring Institution or Company(name): 1112002 BC Ltd., 1500-1055, West Georgia Str., Vancouver, BC

VS062019
University of Campinas (UNICAMP)
Society of Economic Geologists Student Chapter
Annual Report 2019
UNICAMP - SEG Student Chapter 2019 Executive Committee

President
Raphael B. Hunger

Vice-President
Bruno C. S. dos Santos

Secretary
Thais C. Murer

Treasurer
Poliana V. Salgado
MEMBERS AND EXECUTIVE COMMITTEE

The student chapter consists of twenty-six members, including Ph.D., M.Sc. and undergraduate students which are listed below. The current executive committee was elected in February 2019 and is represented by the following members: Raphael Hunger (President), Bruno Conty (Vice-president), Thais Murer (Secretary) and Poliana Vidal (Treasurer).

The chapter has been academically and industrially sponsored by Prof. Álvaro Penteado Crósta and Francisco Azevedo Jr, respectively. Noteworthy, we also counted on the extensive support from professors Roberto Perez Xavier, Maria José Maluf de Mesquita, Carolina Penteado Natividade Moreto, Diego Fernando Ducart, and Carlos Roberto de Souza Filho during this year’s activities.

<table>
<thead>
<tr>
<th>Nº</th>
<th>Name</th>
<th>Status</th>
<th>SEG SC role</th>
<th>SEG Membership #</th>
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<tr>
<td>1</td>
<td>Raphael Hunger</td>
<td>Ph.D. Candidate</td>
<td>President</td>
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<td>2</td>
<td>Bruno Conty</td>
<td>MSc. Candidate</td>
<td>V. President</td>
<td>915351</td>
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<td>3</td>
<td>Poliana Vidal</td>
<td>MSc. Candidate</td>
<td>Treasurer</td>
<td>915349</td>
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<td>Thaís Murer</td>
<td>Undergraduate</td>
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<td>5</td>
<td>Igor Moreira</td>
<td>Ph.D. Candidate</td>
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<td>6</td>
<td>Poliana Toledo</td>
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<td>908047</td>
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<td>Guilherme Primo</td>
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<td>8</td>
<td>Kamila Fernandes</td>
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<td>André Kunifoshita</td>
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<td>Endel Muller</td>
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<td>Cleberson Vieira</td>
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<td>14</td>
<td>Robert Muniz</td>
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<td>16</td>
<td>Josué Passos</td>
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<td>Laís Novaes</td>
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<td>18</td>
<td>João Gabriel Ferreira</td>
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<td>Laryssa Carneiro</td>
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<td>Hevelyn Martins</td>
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<td>Paulo Lima</td>
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<td>Filipe Farias</td>
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<td>23</td>
<td>Diego Rodrigues</td>
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<td>Guilherme dos Anjos</td>
<td>Undergraduate</td>
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<td>25</td>
<td>Vitor Pereira</td>
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<tr>
<td>26</td>
<td>Eduardo Gonçalves</td>
<td>Undergraduate</td>
<td>Member</td>
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</table>
ACTIVITIES

- **Regular meetings**

  Our group is committed to holding meetings once every month, or more, depending on the demand for upcoming activities. During these meetings, the chapter members usually discuss ideas for prospect activities and fundraising, as well as present personal feedbacks on our previously organized events.

- **Talks (from October 2018 to September 2019)**

  A total of five lectures were promoted by the chapter over this one-year period. The majority of them had excellent adherence from both students and professors of the university’s Institute of Geosciences, and also members of other Brazilian Student Chapters.

  On October 24th of 2018, during the “Geology Week”, the chapter hosted the 2018 Regional Vice-president Lecturer, Prof. Lena Virgínia Soares Monteiro, for a lecture entitled “Copper deposits in Brazil: Geological Configurations, Processes and Evolution of the Mineral Systems”. It is also worth mentioning that, during this week, the chapter’s 2017 Vice-president, Poliana Toledo, was invited to participate and share her experiences at a round table themed “Women in Mining”, with other two professionals of the sector.
Poliana Toledo (first from left to right) interacting with Bárbara Ferrari and Jaqueline de Freitas during the “Women in Mining” round table

On March 20\textsuperscript{th} of this year, we received two professionals from the “GE-21 Consultoria Mineral” company (Hebert Ramos and Charles Freitas) for a lecture entitled “The Virtual Reality Applied for Integration, Immersive Visualization and Advanced Analyses of Geologic Data”. The main goal of this event was to present and discuss with the academic community some of the applications of the GeoVisionary software, developed by the British Geological Survey in partnership with Virtalis. It was a remarkable experience for all the attendees that had the opportunity to familiarize with this powerful and integrative software, produced with cutting-edge technology.
A two-day cycle of lectures was promoted by the student chapter between May 28 and 29, during the festive week to celebrate the Geologist Day. The first lecture, entitled “Geology of Other Worlds: Unraveling Titan”, was presented by our academic sponsor Álvaro Crósta, who shared the results of one of his most recent works regarding the geology of the Saturn moon (Titan), which has been developed in partnership with NASA. On the next day, Dr. Ernest Chi Fru, from the University of Cardiff, presented the lecture “Chemical Transition to a New Ecosystem Stable State After 2.5 Ga. Ago”, which discussed the chemical changes the ocean underwent following the first global rise of oxygen in Earth's atmosphere, as well as how the marine ecosystem changed and adapted following this event. In addition, the UNICAMP SEG, GRSS, and AAPG (American Association of Petroleum Geologists) student chapters had decided to join forces during this festive week and promoted a geological photo contest for the academic community. The main goal of the contest, named “Geobalbúrdia”, was to inspire the students of the Institute of Geosciences to get involved with the student chapters, as well as encourage them to participate at their future activities.
Winning photo of the Geobalbúrdia contest, highlighting the role of women in mining

Prof. Álvaro Crósta presenting his lecture at the Institute of Geoscience/UNICAMP
On September 18th, Dr. Emmanuel John M. Carranza was invited to our institute to present a lecture entitled “Spatial Exploration of the Third Kingdom”, which addressed some of the main techniques utilized for the spatial exploration of mineral resources. The event was organized in partnership with the IEE GRSS student chapter.
PARTICIPATION AND ORGANIZATION OF EVENTS

Seminar: New Challenges of Research, Politics and Mineral Economy – Global Trends and in Brazil

On November 22th of 2018, the Institute of Geosciences of UNICAMP held the seminar “New Challenges of Research, Politics and Mineral Economy – Global Trends and in Brazil”, promoted by the Agency for the Technological Development of the Brazilian Mineral Industry (ADIMB), in partnership with the student chapter. During the seminar, topics such as the discovery of new mineral deposits in the Brazilian territory, the technological development of the mineral industry and the future of the mineral economy for the 21st century, were addressed by renowned names of the mineral sector, including members of the academy, industry and government. The event, which has also counted on the massive participation of students, researchers and other professionals, was a huge success.
IIIº Meeting of the Exchange Group of Experiences

On December 12th of 2018, the president of the student chapter, Raphael Hunger, and prof. Maria José Mesquita from the Institute of Geosciences of UNICAMP attended the IIIº Meeting of the Exchange Group of Experiences, organized by the Chamber of Commerce Brazil-Germany and the German Mining Network. The meeting was held in a hotel conference room in São Paulo city and registered the participation of an extremely diverse group of 32 people, that included members from important companies of the mineral industry. During the event, the participants had the opportunity to share their experiences and discuss the economic situation of the Brazilian mineral sector, through a series of round tables and lecturers.
The president of the Student Chapter, Raphael Hunger (6th from left to right), among the participants of the IIIº Meeting of the Exchange Group of Experiences

**IV Brazilian Symposium on Metallogeny**

The IV Brazilian Symposium on Metallogeny (SBM) was held from April 7 to 11, 2019 at the Hotel Master in Gramado (Rio Grande do Sul state). The symposium, which had been promoted by the Federal University of Rio Grande do Sul (UFRGS), in partnership with ADIMB and SEG, brought together members from both academy and industry, as well as an extensive number of undergraduate and graduate students from all over the country. It also registered the participation of six members of the UNICAMP Student Chapter, who were selected to present their respective researches during the poster sections.
OTHER ACTIVITIES

Lectures from members of the Student Chapter

During the month of September 2019, three members of the UNICAMP SEG Student Chapter were invited to give lectures about distinct topics, for students of other Brazilian universities. On September 10, the Ph.D. candidate Endel Muller attended the I Workshop on the Transbrazilian Lineament, that occurred during the Symposium on the Central-West Geology, at the city of Cuibá (Mato Grosso do Sul state), for a lecture entitled “Structural framework of the south sector of the Bananal Basin: Connections in the central portion of the Tocantins Province and the LTB influence”. On September 23, the M.Sc. candidate Laís Novaes was welcomed at the Federal University of Paraná (UFPR) to share the results of her recently awarded work by the Geological Remote Sensing Group, in a lecture entitled “Geotechnologies and Mineral Exploration: The Remote Sensing Applied for Mineral Prospectivity”. Lastly, the president of the chapter, Raphael Hunger, was greeted at the Federal University of Uberlândia (UFU) for his presentation themed “Society of Economic Geologists (SEG) Student Chapters: Advantages and Opportunities”. The main goal of the event was to encourage the students to create a student chapter in their university, emphasizing the opportunities and advantages of being part of SEG.

Field Trip

The UNICAMP SEG Student Chapter, together with the Brasília Student Chapter (BRASC) and the UERJ SEG Student Chapter, had been contemplated with funding from the Stewart R. Wallace Fund and received the importance of 1,000 USD for promoting a field trip to the central region of Brazil. Four members of our chapter attended the activity, which involved a guided visit to the Pb-Zn mining operations in the Vazante-Paracatu (Minas Gerais state) region, promoted by the NEXA Resources company. The trip also covered a small workshop on agrominerals and a visit to the Coromandel region that aimed the observation of phosphate-rich geological formations. A complete report of the field trip will be submitted to SEG in a separated file.
Lecturers of the I Workshop on the Transbrazilian Lineament. From left to right: Endel Muller (UNICAMP SEG chapter member), Amarildo Salina (Federal University of Mato Grosso – UFMT), Elton Dantas (University of Brasília – UnB) and Peter Haspacker (São Paulo State University – UNESP)

Lais Novaes during her lecture at UFPR
Raphael Hunger during his lecture at UFU

Members of the UNICAMP, BRASC and UERJ Student Chapters during their visit to the NEXA Resources mining operations in Vazante (Minas Gerais state)
T-shirts sales

Seeking to raise funds for our activities, the Student Chapter maintained its strategy of selling t-shirts to the students of the Institute of Geosciences, as well as at events outside of the university. Our efforts have resulted in a total profit of 1.615 BRL for the chapter, which was sufficient to cover all of our general expenses during the year and also increase our total budget for future activities.

FUTURE PLANS

Until the end of the year, the chapter has planned to organize a short course on machine learning applied for the study of mineral deposits, that will be taught by Prof. Alexandre Evsukoff from the Federal University of Rio de Janeiro (UFRJ). Additionally, on October 28th the chapter will promote a lecture by Prof. Axel Hofmann (University of Johannesburg – South Africa) entitled “Old is gold: volcano-sedimentary rocks of the Kaapval craton as an archive of surface processes 3.5 to 3.0 Ga ago”. During the same month, members of the chapter will also provide support for the organization of the XVI Symposium on the Southeast Geology, that will be held at UNICAMP between October 20-23th. Finally, all Brazilian student chapters have agreed to collaborate on the organization of the II National Encounter on Economic Geology (ENAGE), that should antecede the 9th Brazilian Symposium on Mineral Exploration (SIMEXMIN) on May 2020.

FINANCIAL REPORT

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<th>Expense Category</th>
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<td>Total budget in September 2018</td>
<td>2,284.54</td>
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<td>Total expenses with events (coffee breaks, lecturers transportation, confraternizations etc.)</td>
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<td>T-shirts sales profit</td>
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¹ Based in an Exchange Rate of 1.00 USD = 4.15670 BRL

ACKNOWLEDGEMENTS