



SOCIETY OF ECONOMIC GEOLOGISTS, INC.

7811 Shaffer Parkway • Littleton, CO 80127-3732 USA • Tel: +1.720.981.7882 • Fax: +1.720.981.7874 • E-mail: seg@segweb.org

Student Chapter Annual Report Cover Page

Submission Deadline: September 30th

Submit to: studentprograms@segweb.org

Month/Year Reported: From 09/2021 (mm/yyyy) – To 09/2022 (mm/yyyy)

STUDENT CHAPTER:

Check if update needed at segweb.org

Name: NUI SEG Student Chapter

University Affiliation: National University of Ireland

Mailing Address: School of Earth Sciences, Science Centre West, University College Dublin

Dedicated E-mail: nui.seg@gmail.com

Website: n/a

Logo: yes

Facebook: facebook.com/SEGstudentsIreland

Twitter: twitter.com/NUI_SEG

Instagram: n/a

LinkedIn: NUISEG Student Chapter

YouTube: NUI SEG Student Chapter

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:	<u>Helen Twigg</u> Name	<u>helen.twigg@icrag-centre.org</u> E-mail
VicePresident:	<u>Halleluya Ekanjo</u> Name	<u>halleluya.ekandjo@icrag-centre.org</u> E-mail
Secretary:	<u>Aileen Doran</u> Name	<u>aileen.doran@icrag-centre.org</u> E-mail
Treasurer:	<u>David Kaeter</u> Name	 E-mail

Chapter Academic Sponsor:

Check if SEG Fellowship in good standing

Murray Hitzman murray.hitzman@icrag-centre.org _____
Name E-mail Phone

as in SEG records _____
Address Fax

Chapter Industry Sponsor (*not affiliated with the student chapter's institution*):

Check if SEG Fellowship in good standing

John Clifford john.a.clifford@gmail.com _____
Name E-mail Phone

as in SEG records _____
Address Fax

Sponsoring Institution or Company(name): n/a

2022 Annual Report

September 30th, 2022



NUI SEG

Society of Economic Geologists
Student Chapter at the
National University of Ireland

Summary

2021-2022 has been a challenging year for the student chapter. The National University of Ireland (NUI) SEG student chapter continued with the online seminars, which continue to attract both academia and industry professionals. The greatest challenge of the year has been to interact with and attract more undergraduate membership. However, the chapter has managed to attract new members towards the end of year in review, and hope to attract more student members in the coming year.

Meetings & Lectures

During the year, our monthly lectures were conducted via zoom. A total of six lectures were held and these attracted interest from the Irish exploration community and university research staff as well as student members. Attendance was regularly between 15-30 people.

Date	Speaker	Affiliation	Domain	Title
March 3rd, 2022	Aiden Lavelle	Green Glen Minerals	Industry	The Abbeytown Pb-Zn-Ag-Cu Deposit, Co. Sligo
March 24th, 2022	Rose Clarke	University of Leicester/Responsible Raw Materials/Satara	Academia	Mining, ESG, and Responsible Raw Materials: the role of a geologist in a changing world
April 7th, 2022	Prof Murray Hitzman	University College Dublin/iCRAG	Academia	Arenite-hosted (red-bed) sedimentary copper deposits and the deposits in the Shu-Sarysu Basin, Kazakhstan
April 14th, 2022	Dr James Stratford		Industry	What can pyrite tell us about the mobility of metals in orogenic belts? Insights from the Irish-Scottish Caledonides
April 28th, 2022	Dr Maeve Boland and Dr Dierdre Lewis	iCRAG and SLR	Academia and Industry	Policy and Mineral Resources Navigating the Social Landscape for Exploration and Mining
May 5th, 2022	Dr Paul Slezack	iCRAG	Academia	Petrology of the Yangibana LREE deposit: Australia's next REE mine

Field trips

A field trip initially planned to Northern Ireland for April 2022 has been postponed to 2022/2023 term. This field trip will provide student members with an overview of the mineral deposits of Ireland and an insight into the socio-economic impact of mining. Not only will mineral systems be

reviewed, but we will also see examples of the challenges of the mine permitting process and public perception of mining. We will additionally discuss the importance of government-funded programs such as the Tellus Survey, a joint effort by the Geological Surveys of the Republic of Ireland (ROI) and Northern Ireland (NI), for mineral exploration and mining

Student members will benefit not only from an overview of the mineral systems in Ireland, but also current research of future potential from the industry and academia experts who specialise on these mineral systems. We will be visiting historical mining sites and other new greenfield discoveries which are in the process of mine permit application process, so the trip will also touch upon historical mining legacy's, public perception of mining and social licence.

Breakdown of expenses and income

No expenses were incurred during the year. All activities took place online, all administration and technical work was undertaken on a voluntary basis.

Euro 1,147.82 received from the Stewart R. Wallace fund for a field trip initially planned for April 2022 has not been used and will be used during the 2022-2023 period.

Organisation of conferences & short courses

A student member assisted with the ReSToRE Summer School, which was held between 4-8 July 2022, University College Dublin. The summer school was organised by iCRAG and IUGS under the patronage of UNESCO and was aimed to nurture an interdisciplinary and experiential learning environment for geoscientists and social scientists to address cross-cutting topics and to create a network for all participants and contributors. It was attended by 50 participants from 19 developing and 10 developed countries with 10 distinguished mentors facilitating the workshops.

<https://www.icrag-centre.org/restore/>

Participation in conferences, workshops & short courses

Student members have attended a number of conferences and short courses during the year, both online and in-person.

- The Frank Arnott - Next Generation Explorers Award (NGEA™) is an international competition where teams of mineral geoscience university students collaborate and innovate to transform geoscience data sets into their interpretation of the subsurface geology and mineralisation targets. A student member together with other 4 colleagues from University College Dublin, University of Houston and Colorado School of Mine (Team GetAI) won the Innovation award through their work on **Exploring for Irish-type deposits with 'data driven domaining'**.

- The Society of Economic Geologists conference in Denver Aug 27- 30th was attended by one student member who presented a poster presentation on Using LA-ICP-MS trace-element sulphide mapping to delineate multiphase Co-Cu mineralization at the Kakanda deposits, in the Central African Copperbelt DRC. The student member formed part of the panelists at the students and early career professionals roundtable discussion on career paths, academia, and work-life balance in mining and economic geology.
- The Geochemistry Gordon Research Conference 2022 was attended by one student member, and presented a poster on the Petrography, metal distribution of the Rosh Pinah deposit.
- The Geochemistry Group Meeting held in person in Cardiff University (UK) between May 5th and 6th 2022 was attended by a student member.
- The SGA 2022 online conference was attended by one student member who presented on 3D facies mapping, petrography, and metal zonation of the Ore Equivalent Horizon of the Neoproterozoic Rosh Pinah Zn-Pb-Ag (Ba) deposit, Namibia. The student member also chaired a panel discussion on Lifting the hood on the relationship between academia, industry, and surveys. The panellists included professionals from industry, academia, and geological surveys.
- The annual AME Roundup conference between January 31st-February 3rd, 2022, was attended by one of the student members.

List of oral and poster presentations given by student members

Posters

- Using LA-ICP-MS trace-element sulphide mapping to delineate multiphase Co-Cu mineralization at the Kakanda deposits, in the Central African Copperbelt DRC.
- 3D facies mapping, petrography, and metal zonation of the Ore Equivalent Horizon of the Neoproterozoic Rosh Pinah Zn-Pb-Ag (Ba) deposit, Namibia.
- Seawater Re-Os oscillations during the Early Jurassic Sinemurian–Pliensbachian boundary.

Oral

- 3D facies mapping, metal zonation and mineralogical variation and alteration at the Neoproterozoic Rosh Pinah Zn-Pb-Ag (Ba) deposit, Namibia
- Seawater Re-Os oscillations during the Early Jurassic Sinemurian–Pliensbachian boundary.
- Enhanced global weathering in response to Central Atlantic Magmatic Province across the Triassic-Jurassic transition.

Fundraising programs

Whilst no fundraising activities were undertaken during the last year, our advisors are supporting a plan to set up sponsorship by geological institutions in Ireland. A business plan is being made to provide a mutually beneficial agreement between the student chapter members and Irish geologists in the exploration industry. This will be based upon the student chapter organising courses and field trips which both students and professional geologists can attend.

Additional fundraising opportunities in the pipeline are an annual dinner, sponsored student membership, merchandise sales, and other social events.

Future plans

The theme for 2022-2023 lectures and field trips will be Mining Potential in Ireland. We plan to diversify our talks this year. We will expand to two styles of talks, with one exploration project and/or career talk per month and one research-based talk. These will alternate every fortnight and will hopefully increase our membership by providing a broader appeal. A short course will be planned later in the year, based on the needs of our student members. A long weekend field trip to the Galway granite has been proposed for the Autumn break, to attract new members prior to the longer initially planned field trip to North Ireland. It is important to our chapter that we incorporate the principles of equity, diversity, and inclusion in all of our planning and will attempt to ensure that our presenters represent the face of global geology and have a wide breadth of experience.

