

Republic of the Philippines  
**Department of Education**  
 NATIONAL CAPITAL REGION

Advisory No. 045, s. 2024  
 February 9, 2024

In compliance with DepEd Order No. 8, s. 2013  
 This Advisory is issued not for endorsement per DO 28, s. 2001,  
 but only for the information of DepEd officials,  
 personnel/staff, as well as the concerned public.  
 (Visit [www.deped.gov.ph](http://www.deped.gov.ph))

**National Geology Congress (NGC)**

The University of the Philippines Geological Society (UP GeoSoc) Diliman campus will conduct the above captioned activity on April 5-6, 2024.

The activity aims to equip high school earth science teachers and students with knowledge and tools necessary for proper discussion and integration of the theoretical and practical aspects of geology; and promoting the significance and impact of geology in our daily lives.

Participation of learners shall be entirely voluntary and should not hamper instructional time in school. Please refer to the attached communication for detailed information on the mechanics of the activity.

For more information, please email at [ngc.geosoc@gmail.com](mailto:ngc.geosoc@gmail.com) or through mobile (09396246386, 09998864112).

Encl.: As stated



Address: #6 Misamis St., Bago Bantay, Quezon City  
 Email address: [ncr@deped.gov.ph](mailto:ncr@deped.gov.ph)  
 Website: [depedncr.com.ph](http://depedncr.com.ph)

Doc. Ref. Code	RO-ORD-F001	Rev	00
Effectivity	01.26.23	Page	1 of 1



OFFICE OF STUDENT PROJECTS AND ACTIVITIES  
University of the Philippines Diliman  
3F Student Union Building  
UP Diliman, Quezon City  
Directline: 8981 8671, 8981 8672  
Email: [ospa.upd@up.edu.ph](mailto:ospa.upd@up.edu.ph).

# Certificate of Registration

This certifies that the

## Geological Society

has been accredited as a UNIVERSITY REGISTERED ORGANIZATION

by the Office of Student Projects and Activities (OSPA), University of the Philippines Diliman, for the Academic Year 2023-2024 and is given permission to:

- use/attach/annex the name of the University (University of the Philippines, U.P.) to the name of the organization;
- conduct activities;
- request to use any University or College facility/ies;
- apply for project grants;
- apply for tambayan;
- partner with any UP unit; and
- participate in activities led by the University units.

Subject to the following conditions:

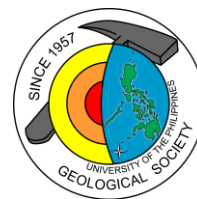
1. This certificate of registration is valid only for the AY/Semester indicated above and until the end of the student org registration period for the 1st Semester for AY 2024-2025;
2. That entitlement to all privileges accorded to registered organizations is still subject to the rules and guidelines set for such privileges;
3. That changes in the list of officers, members, faculty adviser/s and the Constitution and By-laws shall immediately be reported to the OSPA; and
4. That all activities of the organization must be approved and endorsed by its faculty adviser.

Certified:

  
PROF. JAY-ARM. IGNO  
Coordinator, OSPA

  
PROF. JERWIN MAGPAOA  
Vice Chancellor for Student Affairs

# 2024 NATIONAL GEOLOGY CONGRESS



## CORE TEAM

**MARK SUMADEN**  
Overall Co-head

**RAPHAEL DEQUILLA**  
Overall Co-head

**ANGELINA CABANAS**  
Secretary

**NATHANIEL MARTINEZ**  
Logistics Head

**TRISHA PARADEZA**  
Marketing Head

**ALON VALLESPIN**  
Earth Science Teachers'  
Seminar Head

**CLARE FAJICULAY**  
High School Students'  
Workshop Head

**JIAN CORA**  
GeoQuiz Head

**PATRICIA RODRIGUEZ**  
Creatives Head

05 February 2024

**JOCELYN D.R. ANDAYA**

Director IV

Department of Education – National Capital Region

Dear Dir. Andaya,

Good day!

The **University of the Philippines Geological Society (UP GeoSoc)** is the oldest student organization based in the National Institute of Geological Sciences (NIGS), UP Diliman, dedicated to the pursuit of honor and excellence in the field of geology. The organization takes pride in its alumni who became forerunners in the different subfields of geology, including the industry, geothermal, mineral and oil exploration, and in the academe.

In the 66th year of the society, we are holding the annual **National Geology Congress (NGC)**. Even after ten years, UP GeoSoc continues to fulfill the objectives of the NGC: equipping high school earth science teachers and students with knowledge and tools necessary for proper discussion and integration of the theoretical and practical aspects of geology; and promoting the significance and impact of geology in our daily lives. Finally, after three years of online setup, this year's installment of NGC will be held in a **completely face-to-face setup**. It will be conducted at **UP Diliman on April 5 and 6, 2024**.

In accordance with this, we are humbly asking your good office for the **issuance of DepEd Advisory** of the activities we have prepared, and its **dissemination to the secondary schools of your region**. Below are the events of the 2024 NGC.

### 1. **ARETE: Earth Science Teachers' Seminar – April 5**

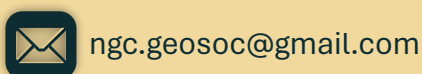
A seminar that aims to equip high school teachers with supplementary knowledge on how to effectively teach Earth Science in the K-12 curriculum.

### 2. **TALAGHAY: High School Workshop – April 5**

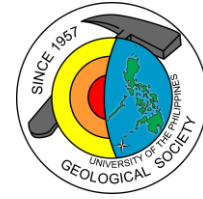
A workshop for high school students that aims to widen their understanding of geology through various lectures and laboratory activities.

### 3. **GEOQUIZ: An Earth Science Competition – April 6**

A contest for high school students that aims to test their earth science knowledge and their ability to think analytically under time pressure.



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Earth Science Teachers'  
Seminar Head

**CLARE FAJICULAY**  
High School Students'  
Workshop Head

**JIAN CORA**  
GeoQuiz Head

**PATRICIA RODRIGUEZ**  
Creatives Head

We are assuring that this year's NGC will be a worthwhile and enjoyable experience. Attached herewith are more details about our organization and our NGC events.

Should there be any concerns, or if you wish to set an appointment, please feel free to contact us through email ([ngc.geosoc@gmail.com](mailto:ngc.geosoc@gmail.com)) or through mobile (**09396246386**, **09998864112**).

Thank you very much and we look forward to your favorable response!

Sincerely,

**Mark B. Sumaden**

Event Co-Head, National Geology Congress  
09396246386

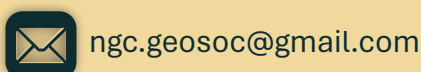
**Raphael Francis E. Dequilla**

Event Co-Head, National Geology Congress  
09998864112

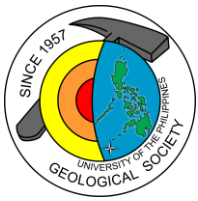
Noted by:

**Marco Alfredo J. Barrientos**

Adviser  
UP Geological Society







# 2024 NATIONAL GEOLOGY CONGRESS



**UNIVERSITY OF THE PHILIPPINES GEOLOGICAL SOCIETY**  
**APRIL 5 to 6, 2024**

## ABOUT UP GEOLOGICAL SOCIETY

The **University of the Philippines Geological Society** (UP GeoSoc) is a duly recognized university-based academic organization. Primarily composed of BS Geology students, UP GeoSoc is the oldest and one of the largest organizations based at the National Institute of Geological Sciences (NIGS), UP Diliman. The society promotes the advancement of the geological sciences and the national issues concerning it among the student body and the local community. Founded in 1957, the organization and its members have continuously dedicated themselves to the pursuit of honor and excellence in the field of geology. Currently, UP GeoSoc has been active in its community and regularly partners with different organizations inside and outside the university.

**Organization Address:** Room 009, National Institute of Geological Sciences, University of the Philippines - Diliman

**Official Email Address:** [geosoc@nigs.upd.edu.ph](mailto:geosoc@nigs.upd.edu.ph)

**NGC Email Address:** [ngc.geosoc@gmail.com](mailto:ngc.geosoc@gmail.com)

## ABOUT THE NATIONAL GEOLOGY CONGRESS

The **National Geology Congress** (NGC) is the flagship event of UP GeoSoc. Through a series of events, it aims to reach out to high school students and their teachers across the country to promote knowledge in geological sciences. With a growing number of participants each year, the event has a track record of successful partnerships with both companies and schools alike.

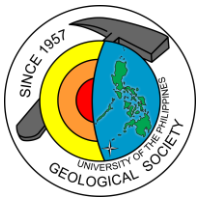
NGC puts its focus in emphasizing the relevance of geology and related fields. More importantly, it aims to bridge the disconnect between the public and scientific knowledge. In its 2024 installment, conducted in a fully face-to-face setup, the NGC aims to bring insightful, relevant, yet fun-filled activities to a wider audience.



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# 2024 NATIONAL GEOLOGY CONGRESS



**UNIVERSITY OF THE PHILIPPINES GEOLOGICAL SOCIETY**  
**APRIL 5 to 6, 2024**

## ARETE: EARTH SCIENCE TEACHERS' SEMINAR (ESTS)

### PRIMARY EVENT DETAILS

The term *arete* possesses rich semantic duality, encompassing both a specific geological formation and a profound philosophical concept which means aiming towards excellence and knowledge. Through a series of focused lectures, the Earth Science Teachers' Seminar aims to **equip participating educators with comprehensive knowledge in Earth Sciences**, enabling them to foster more effective and practical classroom discussions. Renowned Filipino experts in various fields will deliver insightful presentations on key topics relevant to Earth Sciences education.

**Date and Time:** April 5, 2024 from 8:00AM to 4:00PM

**Venue:** National Institute of Geological Sciences, UP Diliman, Quezon City

**Early Bird Registration Fee:** PHP 250.00 per teacher (until March 5, 2024 only)

**Regular Registration Fee:** PHP 300.00 per teacher

**Link to Registration:** <https://tinyurl.com/2024ESTS>

### PROGRAM FLOW

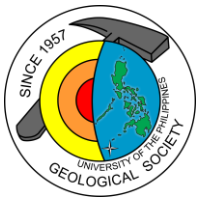
TIME	ACTIVITY	TIME	ACTIVITY
8:00-8:30AM	Registration	11:00AM-1:00PM	Lunch
8:30-9:00AM	Welcoming Remarks	1:00-1:30PM	Lecture 3
9:00-9:15AM	Event Introduction	1:30-1:40PM	Q and A Portion
9:15-9:45AM	Lecture 1	1:40-1:45PM	Awarding of Certificate
9:45-9:55AM	Q and A Portion	1:45-2:00PM	Coffee Break
9:55-10:00AM	Awarding of Certificate	2:00-2:30PM	Lecture 4
10:00-10:15AM	Coffee Break	2:30-2:40PM	Q and A Portion
10:15-10:45AM	Lecture 2	2:40-2:45PM	Awarding of Certificate
10:45-10:55AM	Q and A Portion	2:45-4:00PM	Closing Remarks and NIGS Museum Tour
10:55-11:00AM	Awarding of Certificate		



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# 2024 NATIONAL GEOLOGY CONGRESS



**UNIVERSITY OF THE PHILIPPINES GEOLOGICAL SOCIETY**  
**APRIL 5 to 6, 2024**

## **ARETE: EARTH SCIENCE TEACHERS' SEMINAR (ESTS)**

### **OVERVIEW OF ESTS LECTURES**

#### **LECTURE 1: EARTH SCIENCE IN THE CLASSROOM**

This lecture will tackle the overview on how Earth Science Teaching has evolved over the course of classroom dynamics, with specific highlight given to post-pandemic situations.

#### **LECTURE 2: ENHANCING CLIMATE CHANGE LITERACY IN THE CLASSROOM**

Climate change – postulated in the 1970's yet poorly understood. This lecture aims to advance the educators' understanding towards the concept of climate change and the key ideas to be shared with their students, with the ultimate goal of inspiring younger generations to advocate for climate action.

#### **LECTURE 3: RISK MITIGATION AND SCIENCE COMMUNICATION WITH THE COMMUNITY**

Given that educators are frontrunners of science communication in the community, it is imperative to discuss science and hazard communication from experienced scientists. This lecture will discuss how risk mitigation and hazard assessment is intertwined with earth science.

#### **LECTURE 4: CULTURE OF MAP READING**

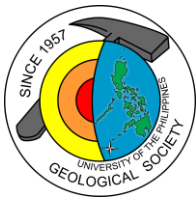
The culture of map reading has been elusive for Filipinos. Hence, teaching map reading and appreciation geared toward its educators would be beneficial. This lecture will tackle how to read basic political and road maps for everyday use.



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# 2024 NATIONAL GEOLOGY CONGRESS



**UNIVERSITY OF THE PHILIPPINES GEOLOGICAL SOCIETY**  
**APRIL 5 to 6, 2024**

## TALAGHAY: HIGH SCHOOL WORKSHOP (HSW)

### PRIMARY EVENT DETAILS

*Talaghay* is a word that embodies the spirit of courage to overcome adversity. The objective of the High School Workshop is to enlighten the students with some of the most pressing problems faced by our planet and emphasize the role of earth scientists in resolving such problems. Earth science experts will conduct thought-provoking discussions on climate change and disasters, as well as the career paths awaiting them in the earth science field. Furthermore, the workshop aims to boost the interest of the students in pursuing a geoscience degree in college by teaching them the fundamentals of mineral/rock identification and field techniques.

**Date and Time:** April 5, 2024 from 8:00AM to 5:00PM

**Venue:** National Institute of Geological Sciences, UP Diliman, Quezon City

**Early Bird Registration Fee:** PHP 150.00 per student (until March 5, 2024 only)

**Regular Registration Fee:** PHP 200.00 per student

**Link to Registration:** <https://tinyurl.com/2024HSW>

### PROGRAM FLOW

TIME	ACTIVITY	TIME	ACTIVITY
8:00-8:30AM	Registration	10:20-10:25AM	Awarding of Certificate
8:30-9:00AM	Welcoming Remarks	10:25-10:50AM	Lecture 3
9:00-9:15AM	Event Introduction	10:50-10:55AM	Q and A Portion
9:15-9:40AM	Lecture 1	10:55-11:00AM	Awarding of Certificate
9:40-9:45AM	Q and A Portion	11:00AM-1:00PM	Lunch
9:45-9:50AM	Awarding of Certificate	1:00-3:00PM	Workshop 1
9:50-10:15AM	Lecture 2	3:00-4:30PM	Workshop 2
10:15-10:20AM	Q and A Portion	4:30-5:00PM	Closing Remarks and NIGS Museum Tour

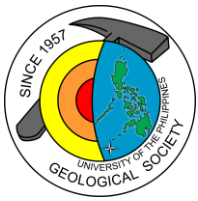


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# 2024 NATIONAL GEOLOGY CONGRESS



**UNIVERSITY OF THE PHILIPPINES GEOLOGICAL SOCIETY**  
**APRIL 5 to 6, 2024**

## TALAGHAY: HIGH SCHOOL WORKSHOP (HSW)

### OVERVIEW OF HSW LECTURES

#### **LECTURE 1: ROLE OF EARTH SCIENTISTS IN CLIMATE CHANGE MITIGATION**

Given that climate change poses a major challenge in the present time, it is significant to equip the youth with in-depth understanding of the problem and how earth scientists can help in mitigating its impacts.

#### **LECTURE 2: ROLE OF EARTH SCIENTISTS IN DISASTER PREPAREDNESS**

The idea of resiliency in Filipinos has always been connected to the smiling faces of the people after a natural disaster happens. However, this lecture aims to reshape the concept of resiliency by providing a comprehensive discussion on the crucial role of earth scientists in studying disasters and helping the community prepare for and navigate through the impacts of such events.

#### **LECTURE 3: CAREER PATHS IN THE FIELD OF EARTH SCIENCES**

This lecture encompasses the different career paths that the student participants may venture into should they pursue a degree in geosciences.

#### **WORKSHOP 1: BASIC MINERAL AND ROCK IDENTIFICATION**

This workshop aims to familiarize the students with the basic types of minerals, their primary uses, and the techniques on how to identify them. The students will also be exposed to different types of rocks observed in the Philippines and understand their varying modes of formation.

#### **WORKSHOP 2: FIELD TECHNIQUES**

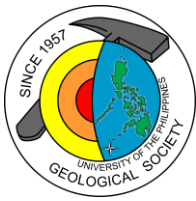
This workshop will introduce the students to the basic field techniques such as describing outcrops and identification of structures. These activities will give them a glimpse of what geologists do in the field.



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# 2024 NATIONAL GEOLOGY CONGRESS



**UNIVERSITY OF THE PHILIPPINES GEOLOGICAL SOCIETY**  
**APRIL 5 to 6, 2024**

## GEOQUIZ: AN EARTH SCIENCE COMPETITION

### PRIMARY EVENT DETAILS

The GeoQuiz is an earth science competition open to high school students from public, private, and science high schools. It aims to test the students' knowledge in earth sciences and their ability to think analytically while under time pressure.

**Date and Time:** April 6, 2024 from 8:00AM to 4:00PM

**Venue:** College of Science Admin Auditorium\*, UP Diliman, Quezon City

**Early Bird Registration Fee:** PHP 400.00 per team (until March 5, 2024 only)

**Regular Registration Fee:** PHP 500.00 per team

**Link to Registration:** <https://tinyurl.com/2024GeoQuiz>

### PROGRAM FLOW

TIME	ACTIVITY
8:00-8:45AM	Registration
8:45-9:00AM	Welcoming Remarks
9:00-9:30AM	Presentation of Mechanics
9:30-11:00AM	Elimination Round
11:00AM-1:00PM	Lunch
1:00-1:30PM	Announcement of Top 8** and Mechanics
1:30-3:30PM	Quiz Bee Proper
3:30-3:55PM	Awarding Ceremonies
3:55-4:00PM	Closing Remarks

*\*Changes in the venue shall be announced through email and social media before the said event. But rest assured that the venue will remain within UP Diliman only.*

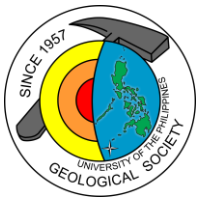
*\*\*The number of teams that will enter the final round is not final and is subject to change based on the number of teams that present on the day of the competition.*



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# 2024 NATIONAL GEOLOGY CONGRESS



**UNIVERSITY OF THE PHILIPPINES GEOLOGICAL SOCIETY**  
**APRIL 5 to 6, 2024**

## GEOQUIZ: AN EARTH SCIENCE COMPETITION

### GENERAL MECHANICS

- The quiz show is **open to all students** from public, private, and science high schools all over the country, as accredited by the Department of Education.
- A maximum of **two (2) representative teams for each school** is allowed. A team must consist of **three (3) members – two from senior high school and one from junior high school**. Representative teams of each school must be accompanied by a coach. Students and coaches must be bona fide members of the said school.
- The contest will cover the following topics:
  - Principles of Geology
  - Earth's History and Composition
  - Geology of the Philippines
  - Current Events
  - Applications of Earth Science
  - Basic Rock and Mineral Identification
- The entire competition is composed of an **Elimination Round**, consisting of an individual written exam, and a **Final Round** which will be played by team.
- Scores from the elimination round of the eight (8\*) qualified teams will not be added to the scores garnered in the final round; thus, all teams will start equally with zero (0) points for the final round.
- All questions and clarifications shall be addressed to the panel. The panel is composed of licensed geologists. The panel's decisions are considered final and irrevocable.
- A registration fee is required to join the competition.
  - Early bird registration fee (until March 5, 2024 only): **PHP 400.00 per team**
  - Regular registration fee: **PHP 500.00 per team**
- Registration will start at **8:00AM**.
- Certificates will be given to all participating teams.
- The following prizes will be given to the top 3 participating schools:
  - **First Place:** PHP 10,000.00, the GeoQuiz Trophy, medals, and certificates
  - **Second Place:** PHP 5,000.00, medals and certificates
  - **Third Place:** PHP 3,000.00, medals and certificates

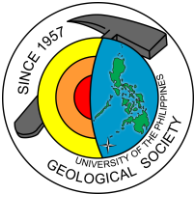
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**UNIVERSITY OF THE PHILIPPINES GEOLOGICAL SOCIETY**  
**APRIL 5 to 6, 2024**

## **GEOQUIZ: AN EARTH SCIENCE COMPETITION**

### **ELIMINATION ROUND (INDIVIDUAL WRITTEN QUIZ)**

- The Elimination Round shall be participated by all competing teams.
- All participants will be answering an individual written quiz worth (100) points.
- The written quiz will be the same for all the participants. It will consist of multiple choice, identification, and/or problem-solving type of questions.
- All answers and solutions must be written on a separate answer sheet provided.
- The scores of the members of each participating team **will be added**. The top 8\* groups with the highest accumulated scores from the Elimination Round shall proceed to the Final Round. In case of a tie for the 8th\* slot, the concerned teams will automatically be included in the Final Round.

### **FINAL ROUND (QUIZ BEE PROPER)**

- Scores from the Elimination Rounds shall be tallied, and the top 8\* shall continue to the Final Round. Scores from the Elimination Rounds, however, will not carry over to the final round. Therefore, the qualified teams will start equally with zero (0) points for the final round.
- Each group will be provided with boards and writing materials.
- The group quiz consists of three (3) parts: Easy, Average, and Difficult, with each part having 15, 10, and 5 questions, respectively.
- Each round will have the following corresponding points and time designation:
  - **Easy Round:** 2 points, 10 seconds per question
  - **Average Round:** 3 points, 30 seconds per question
  - **Difficult Round:** 5 points, 60 seconds per question
- After the “Go” signal of the quiz master, the students will be given time to write down their answers on their answer boards.
- After the “Stop” signal of the quiz master, the students will be required to stop writing and raise their answer boards. Those who fail to do so will forfeit the points for the said question.
- Clarifications/objections regarding the present question will be acknowledged after the quizmaster has given the correct answer.
- Questions regarding a previous question will not be entertained. Participants should call the attention of their team’s usher or the quizmasters by raising their hand.

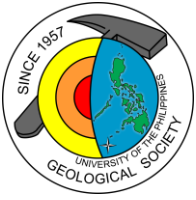
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**APRIL 5 to 6, 2024**

## **GEOQUIZ: AN EARTH SCIENCE COMPETITION**

### **CLINCHER ROUND**

- All ties shall be broken by **sudden death Clincher Rounds**.
- Participants will be given a time of **30 seconds** to answer the questions. After the 30-second timer, the teams involved shall raise their answer boards. Failure to do so will result in disqualification for that question.
- The Clincher Rounds will continue until only one team remains; this team will be declared the winner.



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