

Republic of the Philippines

Department of Education REGION VII - CENTRAL VISAYAS SCHOOLS DIVISION OF BOHOL

Office of the Schools Division Superintendent

July 22, 2023

DIVISION MEMORANDUM No. <u>0349</u>, s. 2023

GEOSCIENCE TEACHER'S TRAINING PROGRAM

To: Assistant Schools Division Superintendent Chief, CID and SGOD Public Schools District Supervisors/APSDS School Heads All Others Concerned

- 1. The Provincial Government of Bohol, in collaboration with the Center for Neighborhood Studies Ph through the Curriculum Implementation Division, announces the training for elementary and secondary Science teachers of Candijay district. The training aims to enhance the geoscientific knowledge and practical teaching skills of elementary and secondary teachers by utilizing the remarkable geological heritage of the island province as tangible examples, and to facilitate a better understanding of universal concepts.
- 2. The training will be on August 4-6, 2023 at Candijay Central Elementary School.
- 3. Attached is the List of participants.
- 4. The Provincial Government of Bohol will cover the airfare and accommodation of the volunteer trainers as well as the food for the participants. Other relevant expenses, such as travel expenses, materials, and incidentals shall be charged against School MOOE/local funds subject to the usual COA auditing rules and guidelines.
- Teacher participants are entitled to a Service Credit pursuant to CSC and DBM Joint Circular No. 2, series 2004, "Non-Monetary Remuneration for Overtime Services rendered".
- 6. Immediate dissemination and compliance with this Memorandum are directed.

Schools Division Superintendent

SDS/ASDS/CID/CR/GC



0050 Lino Chatto Drive Barangay Cogon, Tagbilaran City, Bohol Tel Nos.: (038) 412-4938; (038) 411-2544 (038) 501-7550 Telefax: (038) 501-7550 email add: deped.bohol@deped.gov.ph



Final listing of participants for Geo-Science Training

Elementary Teachers:

- 1. Jeziel Mae Singco
- 2. Darlene Bernante
- 3. Lucia Bansag
- 4. Josephine Lagang
- 5. Jacinto Amoguis
- 6. Elvira Busano
- 7. Josemie Dajalos
- 8. Emma Requina
- 9. Desley Jennith Pugoy
- 10. Anthony Pizana
- 11. Mila Amoguis
- 12. Cristina Casundo
- 13. Mercy Piquero
- 14. Georginia Melecio
- 15. Ma.Theresa Bersabe
- 16.Niezel Cimene
- 17. Deborah Jasmin Vallente
- 18. Precie Caberte
- 19. Angelito Piloton
- 20.Gretchen Becera
- 21. Odessa Boiser

Secondary Teachers:

- 1. Laurence Acilo
- 2. Melchora Tutor
- 3. Noel Esquilla
- 4. Ivy Amolato
- 5. Rosalie Caybot
- 6.Mary Dee Cutamora
- 7. Carmela Raya
- 8. Elsie Case
- 9. Delfin Aleria
- 10. Delia Felisilda
- 11.Welanie Grengia
- 12. Leah Peligrino
- 13. Jennelle Gule
- 14. Jonalizae Cunado
- 15. Anna Marie Badayos
- 16. Pedrita Olandria
- 17. Verlita Amora
- 18. Bonnie James Saclolo
- 19. Virginia Jaromahum
- 20. Desiderio Galupo
- 21. Stephen Corsiga
- 22. Ronel Labrador
- 23. Jocelyn Amoto
- 24. Edward Castino
- 25. Maria Cristina Beron
- 26. Cristina Cabiguin
- 27. Rubelyn Gumatay
- 28. Merlyn Sotel
- 29. Merly Casocot



Republic of the Philippines PROVINCE OF BOHOL City of Tagbilaran



OFFICE OF THE GOVERNOR

19 June 2023

EVANGEL M. LUMINARIAS, PhD., CESO V Schools Division Superintendent, Department of Education – Bohol Division

Dear Dr. Luminarias.



The Provincial Government of Bohol, in collaboration with the Center for Neighbourhood Studies Ph, aims to organize the **Geoscience Teachers' Training Programme** for science teachers in primary and secondary schools throughout the province. This program is an integral component of the Geo-education area of Bohol Island UNESCO Global Geopark, which aims to enhance the geoscientific knowledge and practical teaching skills of our local educators. By utilizing the remarkable geological heritage of the island province as tangible examples, we aim to facilitate a better understanding of universal concepts.

This activity holds great significance for the sustainability of Bohol Island as a UNESCO Global Geopark. The UNESCO Executive Board and the Global Geoparks Network Council have explicitly recommended that the management body of the Bohol Island UNESCO Global Geopark actively collaborate with partners and coordinate educational activities while promoting them under the Geopark brand.

We propose to pilot the training workshop in the Municipality of Candijay, specifically catering to science teachers from primary and secondary schools in Candijay. This town boasts numerous geosites, natural attractions, and awe-inspiring landscapes, making it an ideal destination for students and teachers to explore and grasp geoscientific knowledge in a meaningful way.

The proposed dates for the training are either July 28-30, 2023, or August 4-6, 2023, both of which fall on a Friday to Sunday. These dates were recommended by our training team, which predominantly comprises volunteer geologists who possess extensive experience and profound expertise in their respective workshop topics. However, if these dates are inconvenient, we remain open to your suggestions for the three-day training workshop.

The Provincial Government of Bohol will cover the airfare and accommodation of our volunteer trainers, as well as the food for the participants. In this regard, we kindly request your full support in implementing this proposed activity by allowing the teachers to participate with a service credit for the time they dedicate to the training. Furthermore, we would like to request the use of facilities or classrooms in either Candijay Central School or Tambangan National High School as the venue for the workshop. As the training will also include fieldwork, we kindly request additional support to cover the travel expenses of our teachers. Lastly, we would greatly appreciate the involvement of Dr. Jupiter Maboloc, our geopark coordinator, and Dr. Generosa T. Castillo, the Education Program Supervisor for Science, to ensure seamless coordination during the preparation and implementation of the program.

Attached herewith is the proposed activity design for your reference and comments.

We sincerely hope to garner your support as we advance geoscience education in Bohol, particularly for the benefit of Boholano students. If you have any inquiries or concerns, please do not hesitate to contact Mr. Karl Michael Din, our Geologist for Bohol Island UNESCO Global Geopark, at the following phone number: 09274337591 or via his personal email: din.krlmchl@gmail.com.

Thank you very much!

Very truly yours

ERICO ARISTOTLE C. AUMENTADO

Governor

DATE: 111N 2 02023









Activity Proposal: Candijay Geoscience Teachers' Training Geopark Component: Geo-education / Capacity-Building

Collaborating Institutions: Provincial Government of Bohol, Department of Education – Bohol

Division, and Center for Neighbourhood Studies Ph

Introduction

The Provincial Government of Bohol (PGBh) established a close partnership with the Department of Education – Bohol Division through a Memorandum of Agreement to meticulously plan and execute educational initiatives of the Bohol Island UNESCO Global Geopark. Education holds a prominent position among UNESCO's 'Top Ten focus areas for Geoparks,' underscoring the need for all UNESCO Global Geoparks to design and provide educational activities catering to individuals of all age groups. These endeavors aim to raise awareness about our geological heritage and its interconnections with our natural, cultural, and intangible heritages.

To adhere to the recommendations put forth by the UNESCO Executive Board, the PGBh actively coordinates educational activities with its partners and collaborators while promoting them under the Geopark brand. In light of this, the Provincial Government of Bohol, in partnership with the Center for Neighbourhood Studies Ph, proposes its **Geoscience Teachers' Training Programme** for science teachers in primary and secondary schools across the Province. This workshop constitutes an integral part of the Geo-educational program of Bohol Island UNESCO Global Geopark. Its primary objective is to bolster the geoscientific knowledge and practical teaching skills of our local educators, using the exceptional geological and cultural heritage of Bohol Island as accessible examples to facilitate understanding of universal concepts.

For this year 2023, the management body proposes to pilot the training workshop in the town of Candijay, with a specific focus on science teachers from Candijay primary and secondary schools. The town of Candijay possesses a number of geosites, natural attractions, and breathtaking landscapes, making it an ideal destination for students and teachers to explore and comprehend geoscientific knowledge in a tangible manner.

Objectives

The specific objectives of the training are the following:

- a) To provide teachers with essential knowledge and a deeper appreciation of the geology of Bohol Island, including its scenic landscapes, important geological features, and rich natural resources.
- b) To equip teachers with practical teaching techniques and resources to effectively incorporate geoscience concepts into their curriculum.
- c) To organize a Candijay Teachers for Geopark Programme so that they become ambassadors themselves in their respective schools and barangays.

Workshop Details

a) Duration: The training will be conducted over a span of three days including a two-day lecture workshop and a one-day field exposure.

OPTION 1	OPTION 2	Days	Activities
July 28-29, 2023	August 4-5, 2023	Friday - Saturday	Lecture Workshop
July 30, 2023	August 6, 2023	Sunday	Fieldwork

b) **Participants:** Selected primary and secondary school teachers from the town of Candijay. We aim to accommodate a maximum of 70 participants to ensure effective interaction. If the maximum limit is not met, the training will be open to selected science teachers from neighboring towns.

c) Workshop Content:

- History of the Universe and Origin of the Earth
- Plate Tectonics, Volcanoes, & Earthquakes
- Earth Materials: Rocks & Minerals
- Karst Structure / Cave Formation / Groundwater









- · Geohazards: Mass wasting, Flooding, and Coastal Processes
- Geology of Bohol (Specific Focus in Candijay)
- Basic Map Reading
- · Bohol Island UNESCO Global Geopark and Geosites
- Lesson Plan & Classroom Activities
- d) Resource Materials: Participants will receive a resource package consisting of workshop presentations, modules/lesson plans, and supplementary materials. These materials will aid teachers in implementing geoscience education effectively.
- e) **Trainers and Facilitators**: The workshop will be facilitated by a team of geoscientists and a community development specialist.

	Name	Affiliation	Designation	
1	Leo B. Alforte	Dana Asia	Director for Social Business / Community Development Specialist	
2	Nancy Rhoena R. Aguda	CENS Ph	Corporate Secretary/ Geologist / Bohol UGGp Technical Advisor	
3	Leonila B. Sikat	Philippine Groundwater Society	Secretary /Geologist/ Bohol UGG Technical Advisor	
4	Trixie Concepcion	Earth Island Institute- Asia Pacific	Director/Geologist	
5	Kathreen Miralles	Infrastructure & PP Consultancy	Economic Development Specialist/ Geologist	
6	Dainty Rabang	EMS Labs-UPNIGS	Envi Consultant/ Geologist/ Bohol UGGp Technical Volunteer	
7	Jeremy James Jimenez	EMS Labs-UPNIGS	Sr Petrographer / Geologist / Bohol UGGp Technical Volunteer	
8	Kate Cuyno	EMS Labs-UPNIGS	Jr Petrographer / Geologist / Bohol UGGp Technical Volunteer	
9	Chelly Mei Tanpoco	EMS Labs-UPNIGS	Jr Petrographer / Geologist / Bohol UGGp Technical Volunteer	

Evaluation and Follow-up

- a. Assessment: Pre- and post-workshop surveys and hands-on activities.
- b. Follow-up Support: Follow-up activities for participants can be done to facilitate continued learning and knowledge sharing among teachers interested in geoscience education.

Logistics and Budget

Object of Expenditures	Office/Agency/Group Responsible	Quantity	Estimated Budget
Provision of Catering for the Formulation of Geopark Modules PHP 1,100 x 2 days/workshop (Friday, Saturday)	c/o Bohol Provincial Environment Management Office (BPEMO)		66,000.00
Provision of Catering for the Fieldwork (Sunday)	*		
Provision of a suitable venue with adequate seating, presentation facilities, and access to outdoor locations for field trips	c/o DEPED Bohol Division		
Resource Materials and References	c/o CENS Ph		
Memorandum Order	c/o DEPED Bohol Division		









Transportation during fieldwork	*	
Transportation for the training team from Tagbilaran to Candijay	с/о ВРЕМО	
Training Certificate	c/o CENS Ph	

^{*} To be identified

Expected Output

- A successful pilot of a 3-day geoscience camp for 70 science teachers of Candijay Municipality and vicinity;
- 2. A basic geoscience reference manual that the teachers can readily use during their regular science classes;
- 3. Monitoring of participants through teacher's practicum to assess the effectiveness of the training camp and module;
- 4. A project report; and
- 5. DEPED Bohol supporting more geoscience training activities in the future.

Sustainability Strategies

- Continual assessment of participants' implementation of geoscience camp learnings that
 will lead to the inclusion of additional information and materials to further improve the
 training program expected to be replicated in other municipalities within Bohol Island
 UGGp;
- The basic geoscience modules and training methods that are found effective will be replicated to include communities within the target municipality where the resource persons will be the recipients of the Geoscience Training;
- 3. Coordination with the local school authorities on the accreditation of teachers for the training activity;
- 4. Training of teachers to help them institutionalize the holding of geoscience camps in their schools and communities; and
- 5. Integration of basic geoscience concepts in classroom lectures and other related school activities.

Prepared by:

KARL MICHAEL B. DIN Geologist, Bohol Island UGGp

Noted:

JOVENCIA B. GANUB, EnP Head Secretariat, Bohol Island UGGp Head, BPEMO