

Education Activities of UNESCO Global Geoparks



Qinling Zhongnanshan UGGp



Rinjani-Lombok UGGp



Oki Islands UGGp



Longyan Geopark



Idrija UGGp



9th International Conference on UNESCO Global Geoparks
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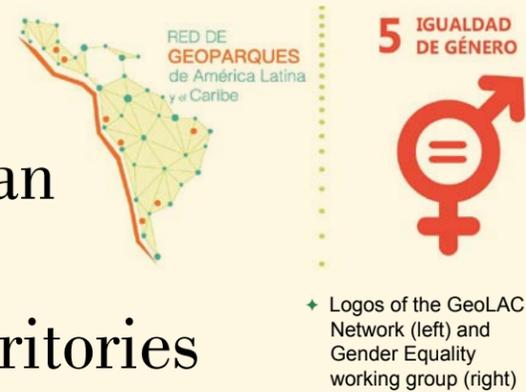
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Gender Equality Group of GeoLAC Network: Education and Egalitarian Participation for Women and Men in Geopark Territories



Comarca Minera UNESCO Global Geopark, Mexico & Rio Coco UNESCO Global Geopark, Nicaragua

For UNESCO Global Geoparks, contributing to Sustainable Development Goals (SDG) has become one of the main priorities. SDG —17 objectives and 169 targets— include a universal and cross-cutting agenda for sustainable development of people, by the people and to the people, by active collaboration with UNESCO (UNESCO regional office for Latin America and the Caribbean, 2018). SDG number 5 «Achieve gender equality and empower all women and girls» is articulated in six targets focused on eliminating discrimination, violence and harmful practices, and valuing unpaid care and domestic work as well as ensuring access to sexual and reproductive education. In order to accomplish these targets, it is fundamental society participation in political, private and educative sectors, where gender equality



focused reforms, public politics and education can be promoted. UNESCO Global Geoparks have identified 10 focus areas among which there is one promoting empowerment of women. Taking this cause as flagship, the Latin America and the Caribbean Geoparks Network (GeoLAC Network) accounts for a working group specifically dedicated to gender equality. Such group is pioneer

among global geoparks and was initially proposed by Comarca Minera (Mexico) and Rio Coco (Nicaragua) geoparks in December 2019 with the support of UNESCO Regional Office for Latin America and the Caribbean (Montevideo, Uruguay). To date, we have the presence of Araripe (Brazil), Colca y Volcanes de Andagua (Peru) and Kütralkura (Chile) geoparks, and the participation of Helga Chulepin (Uruguay), member of the UNESCO Global Geoparks Council. The gender equality working group is coordinated by Mónica Bueno from Río Coco Geopark (Nicaragua) and vice-coordinated by Carles Canet from Comarca Minera Geopark (Mexico).

For Latin America —the most unequal region in the world— social inequality represents a structural feature and,



♦ A group of girls playing with a puzzle of Río Coco UGGp (Nicaragua) in their local school



♦ Estela Garcés, PhD. (LABChico physics team) and a group of students after a laboratory talk (Comarca Minera UGGp, Mexico)

consequently, a fundamental challenge (CEPAL, 2016); such context is of special significance for the work done by geoparks, particularly the effort focused on making more women and girls aware of their rights and enable them to develop within conditions of equality and culture of peace.

The Gender Equality working group has the main objective to undertake activities that foster awareness and promote equal opportunities among men and women in geopark territories, by socializing the fight for equality and to develop productive and educational projects. Likewise, a gender perspective within Earth Sciences making it accessible to all people is a feature to be added. Thereby, geoparks constitute a favorable platform to boost gender equality and to study the role of women and girls in terms

of resilience against natural phenomena (climate change and geohazards).

With the aim of enabling an academic-community applied discussion, the group has elaborated working topics focused on: research (gender studies), education, cooperation, geotourism and communication, which include specific lines of action to achieve long-term objectives. An example of this is the proposal to visualize gender topics in education and interpretation centers, looking to communicate the importance

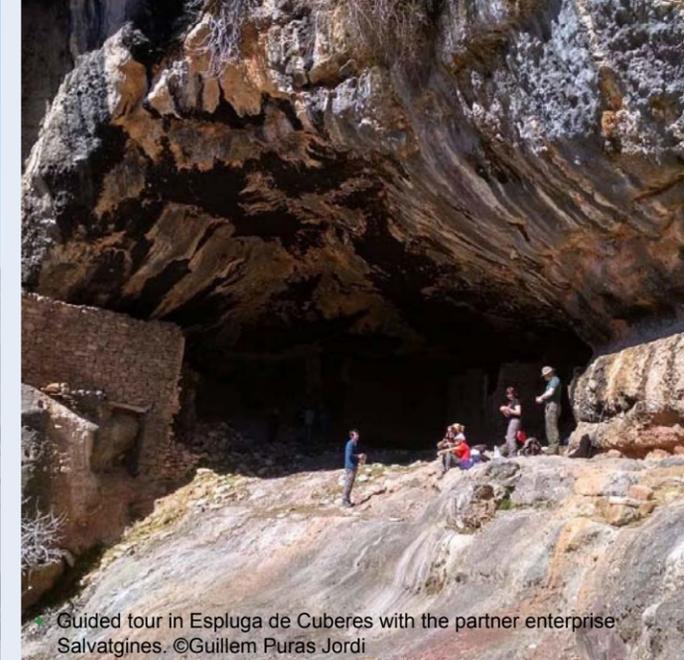
of building a society based on equality.

In June 2020, the first formal public activity of the Gender Equality group was held: a videoconference given by Dr. Elvira Hernández Carballido from the Universidad Autónoma del Estado de Hidalgo (Mexico), titled «Women's studies, feminism and gender: three perspectives and one sole commitment». Activities and conferences will be available in GeoLAC Network webpage and in the Gender Equality group social network pages (Facebook and Youtube).

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Hot-air balloon over Tremp Basin. ©Geoparc Orígens



Guided tour in Espluga de Cuberes with the partner enterprise Salvatgines. ©Guillem Puras Jordi

outings) and the Geopark had to financially support five out of eleven of those activities. The 2020 edition of “Enjoy the Geopark” has included so far, a guided tour on snowshoes in the northern region of the Geopark focusing on the influence of avalanches on mountain environments.

These monthly events fulfill one of the aims of the geoparks that is acting as a tool of local development by generating and supporting sustainable economic activities in the territory. At the same time, it strengthens the figure of the tour guide, which brings added value to the visitor experience and helps to generate and consolidate new job opportunities.

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Monthly Tourist Activities to Promote Local Enterprises and Disseminate the Heritage of Orígens UGGp

Orígens UNESCO Global Geopark, Spain

Orígens Geopark started an initiative named “Enjoy the Geopark” in 2019 which has been continued with its second edition in 2020. Its aim is to disseminate the values of the territory, promote local companies and encourage the development of new tourism enterprises. The activities integrate different assets with a strong component of geology.

This campaign consists of monthly activities developed by local enterprises. The Geopark role includes selecting the geoproducts under the following criteria: (i) activities should cover most of the territory and a wide range of disciplines; (ii) they should be given by different activity providers giving priority to the Geopark business partners. However, enterprises without



Horse riding around Montcortés Lake. ©Wakan

agreement are also welcome and promoted.

The activities are designed and delivered by the companies and they are structured as season packages. The Geopark provides the organizers with background information so that they can describe to the participants the Geopark values and the geology of the area where the activity is planned. The Geopark also contributes to its promotion by leaflet production, social networks marketing, as well as web page and newsletter announcements. The success of the activity is tested through a survey completed by the participants. Moreover, in order to guarantee that these activities take place, the Orígens Geopark promotes them and covers for the overhead in case the minimum number of participants is not reached. This good practice model has been adapted from previous successful experience carried out in the

Basque Coast UGGp.

Activities in 2019 included horse riding or hot air balloon tours, kayaking and visits to caves, hiking visits to palaeontological sites or tours linked with local products. In this first edition we had about 70 participants (organizers limit the number of participants to guarantee the quality of the



Guided tour in a palaeontological site of dinosaur eggs. ©Dinsofera / ICP

“Rocha da Relva”



Azores UNESCO Global Geopark, Portugal

The volcanic landscape is the main slogan of interest and development of the geotourism in the Azores UNESCO Global Geopark (UGGp), which presents a wide range of possibilities for sustainable use and support several activities and tourist products. To discover, on foot, the Azorean geosites, improving the regional

network of walking trails, the Azores UGGp is implementing geological trails and thematic routes in the territory, including the production of informative support materials and leaflets, in close cooperation with local stakeholders.

Inaugurated on February 29th, 2020, the “Rocha da Relva Geological Trail” is the

result of a close cooperation between the Azores UNESCO Global Geopark and the Municipality of Ponta Delgada, on São Miguel Island. The Rocha da Relva walking trail extends from the Alminhas parking area until the northwestern most part of the Rocha da Relva geosite, and includes the Rocha do Cascalho trail. With a total length of about 5.5 km and with 9 informative poles, the trail puts into evidence mostly the geological formations associated with the Sete Cidades volcano, including several light colored and well stratified deposits of pumice and pyroclastic flows, and thick and massive trachytic lava flows. In the initial part of the trail, as in the upper part of the sea cliff overhanging the Rocha da Relva slope deposit (the so-called “fajã”), it is the



◆ Formal inauguration of the Rocha da Relva Geological Trail

basaltic geological formations of the Picos Volcanic Complex that outcrop, including dark colored scoria and basaltic lava flows.

Each of these informative poles includes a QR code that provides direct access to information a leaflet (in Portuguese and English) which can be downloaded by the visitors and users of this geological trail from the Azores UGGp and the Municipality of Ponta Delgada official websites.

Under the scope of such a partnership, an all set of improvements were



◆ New leisure area at the Rocha da Relva geosite

implemented by the Municipality of Ponta Delgada in the geosite of São Miguel Island, including a new leisure space (with picnic tables and restrooms) and bilingual information panels on the geodiversity, biodiversity and socio-cultural aspects of this geosite of the Azores UGGp.

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◆ One of the 3 panels about the geodiversity, biodiversity and socio-cultural aspects of the Rocha da Relva geosite



◆ Informative pole with QR Code addressed to a bilingual leaflet available on the Azores UGGp and the Municipality of Ponta Delgada websites



Nurturing Local Students into Global Citizens

Oki Islands UNESCO Global Geopark, Japan

The Oki Islands UNESCO Global Geopark held an essay contest in English for local junior and senior high school students. The topics set for the essays were related to the Oki Islands. By holding this essay contest, we hope that students will not only improve their English writing skills but also deepen their understanding of the culture of the Oki Islands from a cross-culture prospective.

According to feedback from students in the post-contest questionnaire, many of them participated the contest passively as a class assignment.

However, because they had to strive for longer English compositions than what they normally write, many of them said they felt a sense of accomplishment when they finished, so it served as a good opportunity for them to use English. Several students also said that the contest helped them to look at the Oki Islands in a new way.

The “Oki Essay Contest in English” was first begun in 2015 by education-related personnel in Oki’s Dōzen area (the smaller 3 of Oki’s 4 inhabited islands). It was started as a way to



◆ Awarding the Winner of the 2019 Senior High School Division



◆ Compiled Booklet of Essays and Individual Message Cards from Judges to Participants

increase opportunities for Dōzen’s junior and senior high school students to use English. Compared to mainland Japan, opportunities to interact with overseas visitors are less common in remote islands like the Oki Islands. Therefore, local residents’ motivation to study and practice English is low. In addition, due to substantial travel expenses and time cost, it is difficult for the island residents to participate in English contests in mainland Japan. This contest was created as an English event that students could more easily participate in right at home in the Oki Islands. In 2019, the 5th year of the contest, it was incorporated as a part of the Oki Islands UGGp’s human resources development

project, and the contest was expanded to include the whole of the Oki Islands.

We hope this contest can serve as a chance for children to learn the value of their local heritage – stories of geology, the land, and the local people and culture – and take pride in their local community, and arouse adults’ interest in English as well. By connecting this contest with the geopark, we also hope to enable children in Oki to feel a closer connection with the world around them.

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1st Year-end Meeting for Danxiashan Science Popularization Town Held



Danxiashan UNESCO Global Geopark, China

The 2019 Year-end Meeting for the Science Popularization Town was held in Danxiashan Museum on January 15. This meeting was guided by Guangdong Provincial Association for Science and Technology and organized by Shaoguan Association for Science and Technology and Danxiashan Administrative Committee, Shaoguan City. Over

60 people attended the meeting, including the organizers of science popularization lectures, the enthusiasts of science popularization in Danxiashan communities, representatives of South China Normal University, as well as officials from Shaoguan Association for Science and Technology and Danxiashan Administrative

Committee.

During the meeting, the official in charge of the Science Popularization Town made a report on the work of the town in 2019. 10 science popularization courses including Danxiashan Geological Museum and 20 science popularization individuals received Excellence Awards and shared their working

experience in popularizing astronomy, geology, humanities, ecology, non-heritage handicrafts and farming culture.

Ever Since the establishment of Danxiashan Science Popularization Town on January 14, 2019, there have been 27 science popularization courses with different themes and 9 alternate courses. According to incomplete statistics, the Town has received more than 400 tourist groups from 6 foreign countries (including Scotland and Russia) and more than 20 provinces or autonomous prefectures in China in 2019, with a total tourist number of nearly 20,000. Among them, more than 40 universities and more than 130 primary or secondary schools have organized activities in the Town, learning the development experience of the Town and establishing science popularization communities.

Kan Hongmei, the organizer of the Hakka Cuisine Science Popularization Class from Xiafu Ancient Village, is one of the beneficiaries of the Town. She said that with the help of Danxiashan UNESCO Global Geopark and the Town, more than 8,000 people from over 100 science research teams have attended her class in 2019.

“While popularizing the stories of Danxiashan, we made great efforts to tap the resources of Hakka cuisine and cultures of the ancient village. It greatly enriches the products of our farms. The successful establishment of the Town has brought new opportunities for the development of the countryside in Danxiashan.” She said.

Danxiashan Science Popularization Town is the first science popularization town in Guangdong Province

which was jointly built by Department of Science and Technology of Guangdong Province, Guangdong Provincial Association for Science and Technology, Guangdong Provincial Department of Culture and Tourism, Danxiashan Administrative Committee, Shaoguan City and Shaoguan Association for Science and Technology. With the concept of "benefit the people by popularizing science", the Town aims to further integrate of natural and local social resources in Danxiashan, innovate the working methods of science education, conserve geosites, promote the earth science education as well as promote the sustainable development of communities.

Li Guiqing & Xiao Wei
Danxiashan UGGp, China



Participants are enthusiastic in science popularization activities of Danxiashan



A representative from science popularization classes sharing experience

Forging International Geopark Partnerships in Langkawi UGGp

Langkawi UNESCO Global Geopark, Malaysia

As Southeast Asia’s first Global Geopark, Langkawi has led in its role like a big brother.

It mentored the establishment of the Asia Pacific Geoparks Network (APGN) a year after its inscription in 2007. Langkawi was looked up to by aspiring global geoparks to gain recognition especially hosting working visits from China, which has the largest number of global geoparks.

In 2015, Langkawi gained recognition by the United Nations by becoming a UNESCO Global Geopark (UGGp). Since then, it has formed formal partnerships with seven UGGps in the Asia Pacific region and recently joined the network of nine island UGGps in the world.

It assisted neighbouring Satun in Thailand in the application for the UGGp status.

Last year, Langkawi signed a memorandum of understanding (MoU) to merge Langkawi UNESCO Global Geopark (LUGGp) and Satun UGGp into Asia’s first transnational UGGp. This MoU is the first step towards becoming a transnational geopark in Asia within four years.

Both LUGGp and Satun UGGp were formed at the same time about 550 million years ago, thus they share the same history and geological aspects but different cultural heritages. The impending

merger will see the sharing of conservation duties, development and promotional efforts between the two parties.

Langkawi Development Authority (LADA) Chief Executive Officer Dr. Hezri Adnan believes the cross-border collaboration will be a great boon to Langkawi’s tourism industry as tourists will be able to enjoy the attractions of both places with minimal immigration hassle.

He says the cross-border character will attract tourists from around the world who will be able to immerse themselves in the natural wonders and cultures. Travel time by ferry between Langkawi and Satun is 45 minutes and 30 minutes by speedboat.

The MoU signing ceremony was held at LADA office. Dr Hezri signed on behalf of Langkawi while Satun UGGp was represented by Satun UGGp’s Vice Director Assistant, Prof. Dr. Pongsak Thongnueakhaeng. Also present were LADA Geopark & Conservation Manager Azmil Munif Mohd Bukhari and Satun UGGp Advisor Dr Tawsaporn Nuchanong.

There are, presently, four transnational UGGps in the world; namely,

- 1) Karawanken / Karavanke UGGp, Austria & Slovenia

2) Muscau Arch / Łuk Mużakowa UGGp, Germany & Poland

3) Novohrad-Nógrád UGGp, Hungary & Slovakia

4) Marble Arch Caves UGGp, Ireland & United Kingdom of Great Britain and Northern Ireland.

To date, the seven geoparks that Langkawi is sistershipped with are Dali-Cangshan UGGp, Fangshan UGGp, and Zigong UGGp in China, Dong Van UGGp (Vietnam), Jeju Island UGGp (South Korea), Muroto UGGp (Japan) and Satun UGGp (Thailand).

Sister geopark agreements promote greater communication and international cooperation towards promoting environmental conservation, sustainable development and research advancements.

Additionally, LUGGp works closely with nine island global geoparks under the Global Geoparks Network (GGN), where members of the Island Geoparks Working Group share best practices and scientific information and join hands to raise the standards of all UGGps.

These geoparks are:

1. Azores UGGp, Portugal
2. El Hierro UGGp, Spain
3. Hong Kong UGGp, China
4. Jeju Island UGGp, South Korea
5. Lanzarote and Chinijo Island UGGp, Spain
6. Oki Islands UGGp, Japan
7. Petrified Forest of Lesvos UGGp, Greece
8. Qeshm Island UGGp, Iran
9. Shetland UGGp, UK



Efforts for Geo-tourism and Geo-education



Molina Alto Tajo UNESCO Global Geopark, Spain

This year, our Geopark has worked hard to boost geo-tourism by attending national and international tourism fairs, congresses, work meetings, informative talks etc.

Weekly we visit the tourist companies and establishments of our region, providing them with maps, brochures, informative material. We have periodic meetings and carry out quality questionnaires to be able to clearly see the demand of tourists and what we need to improve or change.

During the geo routes, we teach children the importance of conserving and valuing their heritage, not only geological, also historical and cultural, since during these excursions we take advantage of visiting different archaeological sites, medieval castles and celtiberian castros.

We also take the opportunity to raise the young generation's

awareness of the importance of maintaining this heritage by collecting waste and garbage, avoiding dirt and environmental impact and creating social awareness.

Likewise, we continue with the "Young Ambassadors" Education project and our collaboration with the "El Hierro" Geopark, and this year we have extended our

proposal to all Geopark schools, visiting them and creating the "Geopark Corner" in their libraries, where we take geological stories, DVD's, books of Historical Heritage of our region, and giving talks to the little ones to raise awareness from an early age. Then we put into practice everything learned in excursions adapted to their ages: the Geo routes.





◆ The FSRY 2020 was hosted by SDG's Center of West Nusa Tenggara Province in collaboration with Bike to Work Lombok, Rinjani-Lombok UGGp, Tambora National Geopark, GFNY, RSUD MTB and Government of West Nusa Tenggara Province.



◆ Departure preparation

First Sunday Ride Year 2020 in Rinjani-Lombok UGGp

—5th January 2020 for 20.20 km ride

Rinjani-Lombok UNESCO Global Geopark, Indonesia

First Sunday Ride Year (FSRY) 2020 was an opening event for bike communities in Lombok. This initiation is inspired by the 'Last Sunday Ride' event in December 2019. FSRY 2020 was held on 5th January 2020 with a riding route of 20.20 km, hosted by SDG's Center of NTB Province in

collaboration with Bike to Work Lombok, Rinjani-Lombok UGGp, Tambora National Geopark, GFNY, RSUD MTB and Government of West Nusa Tenggara Province. This event aims to support the third development missions of "NTB Health and Smart" as part of the Provincial

Government of West Nusa Tenggara development programme. At the same time, this event also aims to promote the goals of SDGs especially in Good Health & Well-being and Sustainable Cities and Communities.

More than 300 participants from various bicycle communities in the City of Mataram have joined the event. The start and finish points were in the Governor's office and was released directly by the Governor NTB, Dr. Zulkieflimansyah. The participants were cycling together following the 20.20 km route within the city of Mataram. The event is also used as a public platform for raising awareness about the importance of public health, road safety, and the environment.

During the event, the Rinjani-Lombok Geopark had the opportunity to promote one of our programmes, namely the "Gerakan Pelajar Menanam Pohon (GPMP)" or Student Planting Tree programme. We set a booth to provide information about the tree planting programme and its progress to all participants. Dozens of tree seedlings were provided as souvenirs for the bikers to encourage them to start planting trees. The volunteers of Rinjani-Lombok Geopark also provided environmentally friendly tote bags for sale to FSRY 2020 participants. The sale is used for covering the operational costs in distributing seeds to schools and also as gifts for the students who successfully grow their trees.



◆ Arrival of participants to the event



◆ Volunteers with chairman of FSRY 2020



◆ Booth of Student Planting Tree



◆ The end of event

Scientific Research on Paleoclimate and Paleosol in Huanggang Dabieshan UGGp

Huanggang Dabieshan UNESCO Global Geopark, China

On 14th October, 2020, 3 doctoral students from school of Geography and Tourism of Huanggang Normal University, which is one of the research partners of Huanggang Dabieshan UGGp, carried out sample collection for scientific research on Paleoclimate and Paleosol in Huanggang Dabieshan area. The collected samples are used for study on vertical distribution characteristics of brGDGTs having in top soil along Qingling-Dabieshan paleoclimate zone. The research results can serve as a reference for the research on vertical distribution characteristics of brGDGTs

having in top soil and provide fundamental basis for reconstruction of paleotemperature and paleo-altitude based on brGDGTs thermometric scale.

The research work was supported by Doctor Start-up Fund from Huanggang Normal University and 100 samples will be collected within a week. Sample collection will be followed with laboratory test and analysis.

Li Feng

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Soil sample collection



Sample to be analyzed in laboratory



Sample collection pit



Record on information to soil and vegetation

A New Visitors Centre, an Excellent Starting Point for Exploring Idrija UGGp



Idrija UNESCO Global Geopark, Slovenia

Idrija Tourism Board, the coordinating organisation of the UNESCO Global Geopark Idrija, was the leading partner of the Danube GeoTour Project extending from January 2017 until the end of 2019. The main objective of the project was to work on strategies and practical solutions (pilot actions) to develop and to motivate activities in geodiversity/geoheritage, as well as to apply positive market trends for sustainable tourism development in 8 Geoparks in the Danube region.

The 11 partners of the Project include 7 UNESCO Global Geoparks (UGGps), a national geopark, an Institute for Nature Conservation, a regional tourism organization and a university. The Project also has three associated strategic partners.

The important components of this project include two work



Opening of the Visitor Centre (Photo Bojan Tavčar)

packages involving pilot actions. The first was dedicated to the creation of geo-products in partner areas, resulting in a variety of products defined as geo-products. The term of geo-product has been defined in a wide-ranging debate in the partner consortium and also presented at European Geopark and UNESCO Global Geopark conferences and is ready to be applied in other UGGps.

The second work package was dedicated to interpreting heritage. Project partners developed interpretation sites that were either modern (digital) or traditional and understandable to non-geologists. Idrija UNESCO Global Geopark designed a Visitors Centre interpreting how Earth's forces shaped Idrija's landscape, influenced its natural history and consequently the lifestyle and character of its



Children enjoying discovering natural laws and facts (Photo Bojan Tavčar)



Guiding a group of visitors through the exhibition (Photo Bojan Tavčar)

people. The exhibition aims to encourage visitors not to concentrate only on the main tourist attractions in the town but also to explore the countryside, to experience the natural and cultural heritage, and through contact with tourist providers in the countryside choose to spend more time in Idrija Geopark.

The story of Idrija began with the creation of our planet and continues with the processes that modify and keep it alive. We wish to tell who our visitors that processes in and on Earth define the environment, the variety of

rocks, the morphological diversity that altogether represent the environment, to which whole living world (plants, animals and also people) adapt their ways of life.

During the project, a rich exhibition with models, interesting items, animations, and video presentations were designed to stimulate both those with little interest in the environment and those seeking deeper knowledge. Three sites, in the exhibition, are dedicated to the youngest visitors who will discover natural laws and facts in a playful and interactive way. With digital technology (a

short promo video linked to a QR code), the exhibition also presents and promotes visits to the partner UGGps.

The exhibition was opened on 24 October 2019 and can be visited individually or with a guide. The Idrija Geopark finally has a Visitors Centre – an excellent starting point for your trip through the Geopark as it offers you basic information on the heritage as well as classic tourist information.

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Part of exhibition about Idrija fault and direct transmission from Vojško seismic station (Photo Mojca Gorjup Kavčič)



Birth of Idrija rocks (model) and a dinosaur model in the back (Photo Mojca Gorjup Kavčič)



2019 Longyan Geopark Popular Science Volunteer Training Camp Held Successfully



Longyan Geopark, China

On December 20, 2019, Longyan Geopark Science Popularization Volunteer Training Camp was officially launched in Longyan Geopark. The training camp lasted four days and ended on December 23.

With "theory + practice" as its training philosophy and focused on the combination of theoretical learning and activity practice, the Training Camp attracted 20 campers from 18 institutes, including China University



of Geosciences (Wuhan), Fujian Normal University, Neijiang Normal University, Duke University (USA), to participate in the training camp.

Led by Longyan Geopark's scientific consultants and science popularization instructors, several groups of the campers visited Longyan Geopark's scientific research routes and science popularization venues, learned its geological landform, human history, and biodiversity in all dimensions, gaining full understandings of the scientific value of Longyan Geopark and the importance of science popularization.

Campers conducted field excursion in daytime and

share their field discoveries in the evening. Campers have visited Meihuashan, which includes the Chinese Yew Garden, the granite complex and the China Tiger Park, learning about the biodiversity of Mt. Meihuashan; they have visited Shimenhu Lake, Eagle Beak Hill, the Root of Life, Longevity Peak, Dongshan Cottage and other historical and cultural landscapes in Guanzhaishan; they have also visited Peitian ancient village with Hakka cultural characteristics, Longyan Geopark Museum and Zijinshan National Mining Park, etc.

During the field excursion, the campers recorded the beautiful scenery and

scientific knowledge of Longyan Geopark with brushes, cameras and notebooks. In the evening, they efficiently fulfilled science popularization tasks, shared and consolidated what they have observed and learned in the daytime.

After four days' training, the campers shared their learning outcomes in various ways, such as oral presentation and poetry recitation at the ending ceremony. In the presentation session, the campers made wonderful reports on the geopark's basic introduction, typical geomorphology, biodiversity, historical humanities, research route design, etc., showing their serious and responsible attitude and the rigorous professionalism. Best group, Best media, Best science award and other awards were granted.

"Longyan Geopark Science Popularization Volunteer Training Camp" is a scientific field excursion activity sponsored by the Longyan Geopark Management Committee and Longyan Forestry Bureau, and organized by Longyan



Geopark Conservation and Development Centre and Geoparker (Wuhan) Information Technology Co., Ltd.

As one of the new science popularization method of Longyan Geopark, Longyan Geopark Science Popularization Volunteer Training Camp aims to find partners who are interested in science popularization and promotion of Longyan Geopark to a global geopark, widely disseminate the geological relics, biodiversity, ecological civilization and human history of Longyan Geopark, increase younger generation's attention to and understanding of Longyan Geopark, encourage deeper research on the natural and human geography of Longyan Geopark and finally make the due contribution to

the science popularization of Chinese natural reserves.

The training camp enables more than 20 popular science volunteers to have a deeper understanding of Longyan Geopark. We believe that these volunteers will continue their efforts for the scientific popularization of Longyan Geopark online, offline and

in other ways, introduce scientific knowledge of Longyan Geopark to the public and join more enthusiastic volunteers to into the science popularization endeavor of Longyan Geopark. A single spark can start a prairie fire. Longyan Geopark volunteers, are you ready?





◆ Group photo Lentera Hati Islamica Boarding School

Student Tree Planting in Rinjani-Lombok UGGp

Rinjani-Lombok UNESCO Global Geopark, Indonesia

The Rinjani-Lombok UGGp has initiated the Student Planting Tree program following the Declaration of the 6th APGN Symposium in 2019. This program aims to raise students' awareness in

environmental education and conservation activities at schools. The concepts of conservation, education and community economic development are introduced earlier to pre-school to

high school students, hoping the students to take an active role in saving the environment. This tree planting activity also involved various institutions such as the Development Planning Agency of



◆ Retrieving tree seedlings from the seedbed



◆ Dropping the tree seedlings to Kenyalu Village, Central Lombok



◆ Student Planting Tree in East Lombok Village, Central Lombok



◆ Preparation of planting with 250 kindergartners and elementary school in Tanak Beak Village

West Nusa Tenggara Province, Indonesian Geologist Association in West Nusa Tenggara, Energy & Mineral Resources Agency, Environmental and Forestry Department and BPDAS Dodokan Moyosari. Tree seedlings are available for free from BPDAS Dodokan Moyosari, with various types, such as Jackfruit, Durian, Sugar-apple, Cashew, Albasia, Mahogany, Mangrove, Saman, Tamarind and Candlenut.

This 'Student Planting Tree' is a fully voluntary program and supported by many volunteers as well as the opportunity for open donations. It started in the early December 2019, during the rainy season, and it will continue for a whole year in 2020. This program will cover the activities of planting trees and also ensuring that the trees can survive in a long-term. Making this more attractive, the



◆ Kindergartners plant the trees



◆ Kindergartners plant the trees

students who are successful in taking care of their plants will receive gifts from donors. In the long-run, this program will

motivate students to become wise leaders in conserving the environment for sustainable development.

This program has also become attractive for other community groups in the society. Up to February 2020, more than 2500 students and communities have planted trees and around 15,000 tree seedlings have been planted both in the geopark area and in the biosphere reserve. Rinjani-Lombok Geopark with partners and volunteers will continue the campaigns targeting at least 5000 students/communities to plant trees and 50,000 tree seedlings to be planted until the end of the rainy season on April 2020. This program is essential to contribute to Sustainable Development Goals (SDGs) especially in facing the severe consequences of global warming.



TeachOUT Outdoor Science Game Application as an Innovative Tool for Teaching Natural Sciences in Elementary Schools

Idrija UNESCO Global Geopark, Slovenia

In order to improve the quality of natural science classes and increase interest in the natural sciences, partners Idrija UGGp, Naturtejo UGGp, Magma UGGp, Elementary School Črni Vrh nad Idrijo, Agrupamento de Escolas José Silvestre Ribeiro Idanha-a-Nova, University of Ljubljana/ Faculty for natural sciences/Geology department, Locatify ehf, have joined forces in ESTEAM Project, co-financed by the Erasmus+ programme. The project started in 2016, focusing on improving



Application testing during the Multiplier event in Slovenia (Photo Maša Čibej)

science education by introducing new, innovative, interactive methods, especially modern technology. Throughout the years participating geoparks, schools, universities and an IT company also developed a new teaching application – TeachOUT.

TeachOUT application introduces an opportunity to improve and promote geo-education. TeachOUT App is designed as a treasure hunt game which offers various challenge types to solve on location using smartphones. It provides a guided experience in the natural world while making connections across natural and social sciences. Research show that students (and teachers) perceive incorporating information technology in teaching as a very interesting method, so using the TeachOUT application can be used to popularize (geo)science in modern schools. Teachers can formulate the content of application challenges and therefore prepare quality digital materials that follow school curriculums and educating standards. Besides offering an interesting digital learning experience, the application is set to be used outdoors, so



Making experiment in nature (Photo Bojan Tavčar)



Solving different types of questions and challenges in the nature (Photo Bojan Tavčar)

Researching fossils in nature with the help of TeachOUT App (Photo Bojan Tavčar)



Orienting with the help of smart phone and TeachOUT App (Photo Bojan Tavčar)



students can interact, observe and analyze the natural world.

One of the project activities was also the dissemination of project results. To implement this task, as well as to spread project results, all three UNESCO Global Geoparks organised multiplier events in their geoparks in Spring 2019. In every UGGp the event participants firstly listened presentations of the project and some other expert presentations and then they all tried the trail in field, testing it. While testing the application on the trail, participants solved challenges regarding geological, botanical and social characteristics of life of a specific area. Tasks consisted of different teaching methods and outdoor activities based on a previous research of learning/teaching needs and expectations of pupils and teachers.

Partners in the ESTEAM project developed three main intellectual outputs (i) Research of National Curricula with guidelines, ii) Development of teaching methodology: mobile teaching/users experience platform and iii) Guide for teacher in

natural science education – ESTEAM methodology step by step guide, with a very clear instruction on how to create your own game through the developed CMS (Content Management System).

All the documents (Intellectual Outputs) are published online and can be accessed freely: <https://www.esteemproject.eu/>. The TeachOUT App is available on Play Store for Android (<https://play.google.com/store/apps/details?id=com.locatify.guide.esteem>) and App Store for iOS (<https://apps.apple.com/us/app/teachout-outdoor-science-game/id1450211825>). Guidelines on how to contact us, how to register and how to start working in CMS are available here: <https://www.esteemproject.eu/teachout-contact>.

Maša Čibej, Nina Erjavec & Mojca Gorjup Kavčič

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An Impressive Internship at Rinjani-Lombok Geopark

Rinjani-Lombok UNESCO Global Geopark, Indonesia

As a college student who is in the 5th semester and has fulfilled the requirements to take up internships in the next semester, I decided to use this semester's vacation as my internship time. The apprenticeship activity is one of the requirements to complete the S1 level at the International Relations Study Program at the University of Mataram in addition to the KKN requirements and of course thesis. In this internship opportunity, I chose Rinjani Geopark as a place to carry out my internships with the consideration that Geopark is an institution that is an extension of NTB regional development in terms of tourism development, especially to introduce tourism potentials owned by the island of Lombok in the international world



♦ Various activities in Rinjani-Lombok Geopark

especially Rinjani Geopark has become a member of the UNESCO Global Geopark which means it has an even broader network for promotional events, the international world. Therefore, as a student in International Relations, Geopark Rinjani is an interesting place to study and presumably practice the academic knowledge we have gained.

In my apprenticeship for a period of approximately one month, I gained a lot of new experience in what is referred to as "the world of work". How to interact with people, interact with the community, both formally and informally. Activities that have been carried out include: visiting various related agencies in terms of data requirements, requesting seedlings to the LHK (Environment and Forestry) service as supporting material for one of the Geopark programs namely the "Student Planting Tree", visiting one of the Geo Homestay owned by Rinjani Geopark, distributing seeds to several schools and communities located in Lombok and closed with a final presentation on the "Geopark Goes To School" activity.

I observe the working zone in the Geopark environment which is quite disciplined, decisive, and framed in a zone of hospitality and family that



♦ Student planting tree in Santong, North Lombok

is reflected in the attitude of the mentors who are always able to direct us to achieve goals but do not make us feel burdened. From Geopark I came to understand that to complete a task must be well planned according to the program that was designed and how the art of working with a team so that large work feels light. Geopark also taught me how important it is to preserve the nature and environment even though it starts with the simple thing of starting to plant trees in the environment around us. From things that seem to be merely planting activities, they will be able to have a big impact on Lombok's good reputation for its

superior environmental sustainability.

Thank you as much as possible to Geopark in general and in particular to our mentors: Mr. Ramli, Mr. Misbah, Mr. Akbar, Mr. Budi, and Mrs. Meli. Their guidance was very memorable to me. My friends and I are well received and directed with patience, and we appreciate whatever achievements we make even though we have found many shortcomings and mistakes that we make both intentionally and unintentionally.

Sofhi Nabila Pertiwi



♦ Various activities in Rinjani-Lombok Geopark



♦ Various activities in Rinjani-Lombok Geopark



25 People Gathered at the Birdwatching Guided Tour Organized by the Basque Coast Geopark

Basque Coast UNESCO Global Geopark, Spain

Within the framework of World Wetlands Day, the Basque Coast Geopark organized a guided hike on Sunday, February 9 to observe birds in the area. The purpose of this activity was to make known the value and importance of these natural spaces.

The environmental coordinator of the Basque Coast Geopark, was responsible for the guided hike. During the excursion, information was given about the wetlands of the coast, as well

as the basic training on bird watching.

The activity aimed to raise awareness of the value and importance of these natural spaces, in addition to providing basic information necessary for proper birdwatching. For example, where to see them? what tools to use it? how to identify them or how to record the sightings?

The guide talked about the type of binoculars needed the

importance of the time and place chosen for birdwatching. Besides, he distributed a booklet that includes the characteristics of each bird, necessary advice for birdwatching and relevant general information.

The walk lasted about three hours including a visit to the Zumaia area that had appropriate conditions of lighting and low tide. During the excursion, several species of birds could be sighted, including cormorants, various



An Ecology Lecture in Qinling Zhongnanshan



Qinling Zhongnanshan UNESCO Global Geopark, China



Let heavily forested mountains be the classroom, let grasses and trees be the book, and let the forest ranger with 37 years' experience be the teacher. An ecology lecture for pupils was given in the Qinling Zhongnanshan UNESCO Global Geopark.

"Kids, I think all of you have eaten chestnuts and walnuts, while have you seen the trees that bear those nuts? Look at these trees. They are chestnut trees and walnut trees. Their home is in Qinling. If these trees are not protected well, they will not bear fruits and our environment will not be good any more..." said Li Xifeng, the teacher who brought class into the mountains and started to introduce the stories of Qinling from foods.

"With lush forests, Heihe area of Qinling UNESCO Global

types of seagulls, blackbirds and several hawks.

The origin of the World Wetlands Day

40% of plants and animals live in wetlands, therefore, from the point of view of ecology, wetlands are areas with a very rich biodiversity. All living things in the area need to adapt to cope with wetland conditions. In addition, they influence the climate of the area, give diversity to the landscape, are a place to sediment materials and serve to regulate the water cycle.

Taking into account both these basic ecological functions, as well as, flora and fauna, several international agreements are in force that place value on the conservation of wetlands. The best known was signed in Ramsar in 1971.

What initially only contemplated the conservation of birds, nowadays has become the perfect tool to showcase the wetland ecosystem, which is the way the World Wetlands Day is celebrated.

Leire Barriuso

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Geopark is home to a wide range of plants including about 30 to 40 plants under the first-grade national protection.” Li Xifeng explained surrounding trees and grasses to kids during their hiking. “How do you know whether a taxus tree is female or male?” and “How do you pick fruits while the wild walnut tree is so high?” With the interesting way of teaching, curiosity of kids was stimulated and all kinds of questions were asked.

Li Xifeng answered each question and asked some related questions to make sure that he has clearly explained. The class atmosphere reached its climax when it came into the Q&A session.

This was the first time that 54-year-old Li Xifeng gave lectures. Being a forest ranger for 37 years, Li Xifeng has become an expert in forest pest control, wild animals & plants monitoring, forest fire prevention and flood prevention etc. Except for plant knowledge, Li Xifeng also introduced his daily work and the importance and urgency of forest protection and environment protection to students.

Hearing that deforesting could cause water and soil loss and a cigarette butt could destroy the whole forest, Han Bowen, the fifth-grade student from the Huanghe elementary school, said, “One cannot cut down trees at will, otherwise forests would be destroyed, water and soil would be gone, rivers would become muddy and we could not drink the clear Heihe water anymore! I myself promise that I will never damage a tree or a grass.” Wu Yiwen, the kid next to Han Bowen, said, “I’ll ask my dad to quit smoking as long as I’m back to Xi’an and I’ll never let him smoke in a forest.”

“This ecology lecture in Qinling was so much worthy, as it gave kids from big cities an opportunity to grow up.” said by Mr. Mao Fuping, director of Xi’an Youth Palace, who was responsible for the 20 kids’ Qinling trip. He told the



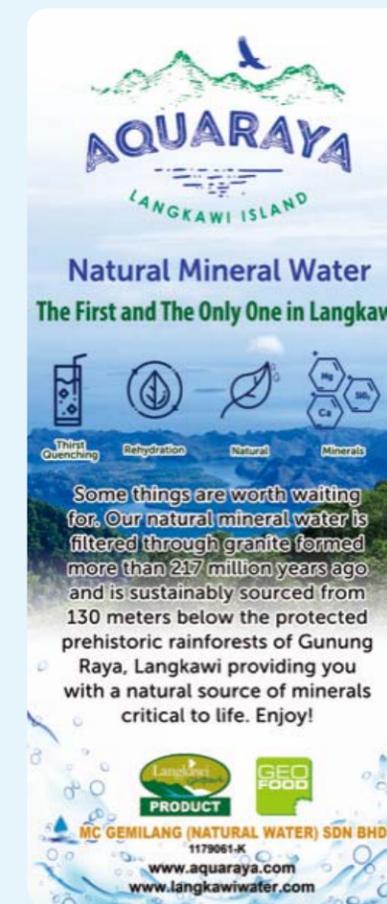
journalist that giving lectures to pupils in Qinling gives them an opportunity to truly know and protect Qinling, have the awareness of environment protection and actively participate in the geopark protection.



Magma UNESCO Global Geopark, Norway

Magma UNESCO Global Geopark (MGP), located in South West of Norway, is actively working to promote and valorize the sustainable development of the local communities. Within the UNESCO Global Geoparks (UGGps) holistic philosophy, Magma Geopark has built-up the GEOfood brand which aims to promote both local food products and producers, sustaining the local communities. The brand has been officially adopted from the European Geoparks Network as brand for developing local food products in UGGps.

The GEOfood objectives are linked with the importance of changing paradigm toward agricultural sustainable practices, the carbon mitigation strategies and the support to small-scale local economies.



GEOfood aims to valorize and support promotional activities, dedicated events, social media channels and projects that

small medium enterprises are engaged in with sustainable agricultural practices within UNESCO Global Geoparks territories.

Langkawi UNESCO Global Geopark and Magma Geopark have started cooperation for the implementation of the GEOfood brand in local market.

The “Aquaraya” local spring water has been certified as GEOfood product, coming from local spring, underlining mineral characteristics owing to the amazing geological heritage of the Island. Though its GEOfood channels, Magma Geopark is promoting the use of local water for reducing CO₂ emissions and make people be more aware of sustainability and geological heritage.

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Karawanken/Karavanke

UGGp has Upgraded Existing Cross-border Cooperation by Becoming an EGTC



Karawanken/Karavanke UNESCO Global Geopark, Austria and Slovenia

The Karawanken/Karavanke UNESCO Global Geopark is a transnational UNESCO Global Geopark (Austria and Slovenia), located between two Alpine mountains that exceed 2,000 metres: the Peca/Petzen and the Košuta/Koschuta. It includes 14 municipalities (5 on Slovenian and 9 on Austrian side) and extends over an area of 1.067 km² with a population of 53,000. Geopark Karawanken/Karavanke was established in 2011 and it became the 54th member of the European Geopark Network and one among 4 transnational geoparks in European and Global Geoparks Network in March 2013.



✦ Signed document (Photo: Urosh Grabner)

Cross-border cooperation between institutions, especially municipalities, is important for the development of the region and thus for improving the quality of life of residents on both sides of the border. However, obstacles, which are mainly the result of different national laws and regulations, often occur in cross-border cooperation.

Geopark Karawanken/Karavanke was first established as the so-called Working group (ger. ARGE = Arbeitsgemeinschaft), legal and formal form allowed by Austrian law. Since the beginning members - 14 municipalities were aware of the weakness of the particular organisation form, and showed a tendency to find more appropriate solution. After examining a number of good practices and possible forms of the cross-border cooperation, the EGTC - the European Grouping of Territorial Cooperation, proved to be the most appropriate.

EGTCs are a European entity set up to foster trans-border, trans-national and inter-regional cooperation, established in 2006. Currently,



✦ 14 Geopark Karawanken/Karavanke representatives (13 mayors, 1 vice-mayor) together with Dr. Peter Kaiser, Governor of Carinthia (Photo: Urosh Grabner)

there are 75 EGTCs in Europe, operating in various fields of activity, ranging from tourism to transport topics and for example, EGTC on the Spanish-French border even runs the hospital.

In the frame of the INTERREG EUfutuR project, an application for the establishment of an EGTC was created and on 27th of November 2019 EGTC Geopark Karawanken/Karavanke was officially founded. It is the first EGTC on the Austrian-Slovenian border as well as the first EGTC with its official seat in Austria. With the new organisation form, Geopark Karawanken/Karavanke becomes an area, where voluntary cooperation of municipalities is now upgraded

into an obligatory one.

New organisation form of the Geopark Karawanken/Karavanke has several advantages, for example, to facilitate cross-border cooperation and the potential for gaining strategic projects in the next EU programming period, and to keep the status of the best example of the cross-border cooperation between municipalities on the border between Austria and Slovenia. At the same time cooperation in the Geopark Karawanken/Karavanke also in other areas (for example transport and mobility, protection against natural disasters) is expected.

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Atlantic Geoparks Project Launches Website to Promote Geo-tourism in the European Atlantic Area

The Atlantic Geoparks project has launched a new website to promote geotourism in the European Atlantic Area. The website features 11 geotourism destinations which span the Atlantic frontier from Ireland and the UK, to France, Portugal, Spain and over to the Atlantic islands of Lanzarote and the Azores.

The geotourismroute.eu website promotes transnational geotourism along the western edge of Europe and will provide inspiration to those looking for exceptional travel experiences in remarkable landscapes. The site puts North Western Europe at the forefront of the growing international geotourism market.

Geotourism encourages slow travel and exploration of the landscape. It promotes the outdoors and the many ways you can immerse yourself in the culture of each of the featured regions. Each destination provides a window into the development of our Earth and tells a distinctive, dramatic and enthralling chapter of the story of life

on the Atlantic frontier. Walking trails, cycling routes and water-based activities are just some of the inspirational activities featured on the site.

“The website guides you through diverse territories, countries, habitats, languages and cultures,” said Artur Sá, University of Trás-os-Montes and Alto Douro, Atlantic Geoparks project leader. “Each of the stunning destinations are linked together by one powerful mission – to provide the highest quality visitor experiences while helping to power their local economies,” he continued, “And by promoting them through an interactive website we hope to inspire future travelers.”

The new website is just one element of the suite of products that is being developed by the EU funded Atlantic Geoparks project which involves international partners working collaboratively to support the development of sustainable geotourism in the European Atlantic Area.

With the website launching just as Europe is emerging from a long period of lockdown following

the COVID-19 pandemic, it is hoped that it can play a role in getting the economies of these regions which are highly dependent on tourism back on track.

“Tourism destination have suffered greatly in recent months,” said Antonio Duarte, Arouca Geopark, website development partner, “And we hope by shining a light on the truly inspirational landscapes and the outdoor experiences that are provided within them through this new website that we can encourage visitors both in the regions and internationally to visit when the time is right.”

About the Atlantic Geoparks Project

The Atlantic Geoparks project is co-funded by the EU Interreg Atlantic Area programme. The project aims to forge new tourism links along a defined Atlantic route through highlighting the common interests and heritage of the destinations along the route. For more information see: <https://geotourismroute.eu/atlantic-geoparks-project/>



Website Map

Project partners:

- University of Trás-os-Montes and Alto Douro (Portugal)
- Arouca Geopark (Portugal)
- Azores Geopark (Portugal)
- Forest Fawr Geopark (UK)
- Marble Arch Geopark (Northern Ireland / Ireland)
- Basque Coast Geopark (Spain)
- Lanzarote Geopark (Spain)
- Sustainable Municipalities Community of Cantabria Aspiring Geopark (Spain)
- PNR Armorique Aspiring Geopark (France)
- North Pennines AONB Geopark (UK)
- Burren and Cliffs of Moher Geopark (Ireland)
- Copper Coast Geopark (Ireland)

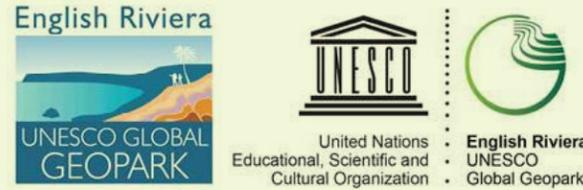
About the INTERREG Atlantic Area Programme

INTERREG Atlantic Area is a European funding programme that promotes transnational cooperation among 36 Atlantic regions of five European countries. With a total budget of € 185M, being €140M of European Regional Development Fund (ERDF), this programme co-finances cooperation projects in the fields of Innovation & Competitiveness, Resource Efficiency, Territorial Risks Management, Biodiversity and Natural & Cultural Assets.

The Atlantic Area covers the western part of Europe bordering the Atlantic Ocean. It comprises regions from the western part of the United Kingdom, Ireland and Portugal as well as the northern and south westernmost part of Spain and western France.

The programme’s main objective is to strengthen the integrated territorial development and cooperation in the Atlantic area.

18 New Creative Events Celebrate the English Riviera's Geology and Landscape



English Riviera UNESCO Global Geopark, UK

Over the past year, English Riviera UNESCO Global Geopark has seen a new level of geopark-inspired cultural programming with Torbay Culture as part of Torbay's Great Place Scheme. Through 2019, the 'Eyeview' programme has inspired audiences (both residents and visitors), encouraging new perspectives of the Geopark's rich cultural heritage and environment. Many of the commissioned artists responded to our UNESCO Global Geopark's arresting landscape, delving into our geological collections and wider research.

As part of this, award-winning design studio Limbic Cinema transformed the cliff surfaces of Rock Walk in Torquay with exquisite large-scale cliff projections, as part of 'Wavelength', an outdoor celebration of sound and light. These projections explored how information from our landscape (and humans' impact on this landscape) can be visually interpreted by shapes, textures and forms. The visuals represented the stories and information that resides in the geological strata. These large-scale works connected people with the significance of our environment, bringing it to life with imagery that explored the evolution of our world and its future.

These projections acted as a 'conversation' between two rock surfaces, with beams of light

illuminating Corbyn Head and reaching across the water to Rock Walk some 900 metres away.

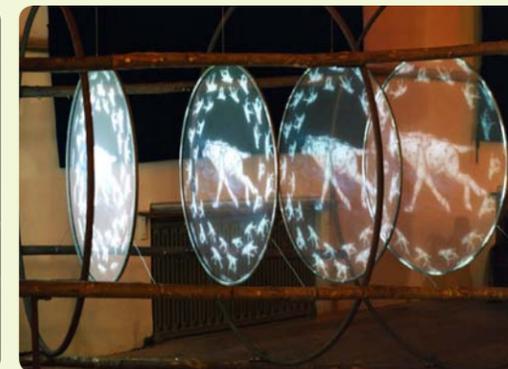
Earlier in the year, artist Sean Harris presented the Cave Hunters and the Truth Machine at All Saints Church in Brixham (connecting to Reverend Henry Francis Lyte). This work explored the work of William Pengelly and his contemporaries (and Torquay Museum's internationally significant Quaternary Cave Collection). Within a mesmeric 're-animation machine', beautifully crafted animations of scimitar cats, of the remains of hyaenas, elephants, lions and hippopotami told a tale of rising waters; one of constant climatic and environmental flux. In the 'Cave Hunter's' travails lie the seeds of our understanding of the mechanisms of climate



◆ The Cave Hunters and the Truth Machine by Sean Harris (Photo: Mark Kessler)



◆ 'Impressions' projected on Rock Walk by Limbic Cinema (Photo: Marco Kessler)



◆ The Cave Hunters and the Truth Machine by Sean Harris brings the Geopark's Quaternary Cave history to life (Photo: Mark Kessler)



◆ Illuminations at Corbyn Head, part of Wavelength, commissioned by Torbay Culture for the Great Place Scheme. (Photo: Marco Kessler)

change; a still-unfurling story.

Taking a site-specific approach, Richard Chappell Dance, working with Dance in Devon, developed Silence Between Waves which brought together a cast of three exceptional Singaporean dancers with a community cast drawn from Torbay. It invited audiences to consider what home means to them, set within the arresting landscape and seascape of Berry Head. Over the same weekend, musical performances took place at extraordinary sites across Torbay's unique landscape - part of a new artistic exchange between musicians in Hong Kong and the English Riviera, exploring artistic responses from distinct Global Geopark sites and celebrating the partnership between the two UGGp's.

These works alongside many others have inspired new audiences to engage with, understand and appreciate the richness of our geological and natural heritage. This approach has included a raft of new collaborations – with artists, communities, academics – through which, long-term relationships have developed, with plans for ongoing work.

Over many years now, the English Riviera UNESCO Global Geopark has seen creative practice and community engagement as a key way to share, protect and celebrate our natural heritage - from performance work such as Earth Echoes (2016) and the Geo-Collective over the



◆ Silence Between Waves, part of Eyeview, commissioned by Torbay Culture for the Great Place Scheme. (Photo: Jim Wileman)

previous decade. Over the past year, this work with Torbay Culture has reached into new communities and engaged with new and unexpected partners - deepening impact and building engagement for longer term sustainability. For works such as Impressions by Limbic Cinema, witnessed by some 45,000 people, the ripples for audiences have been far-reaching.

Building on this momentum, we are continuing to develop future projects with partners, and are looking forward to new creative research partnerships both near and far.

Nathalie Palin

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Lushan UGGp and Rinjani-Lombok UGGp Co-hosted Joint Events of 2020 International Day of Disaster Risk Reduction



Lushan UNESCO Global Geopark, China

From October 12 to 13, 2020, Lushan UGGp China and Rinjani-Lombok UGGp Indonesia co-hosted the joint events of 2020 International Day of Disaster Risk Reduction. Together with Rinjani-Lombok UGGp, Lushan UGGp designed both online and offline activities. For offline activities on October 12, Lushan UGGp held a Poetry

Reading Competition for primary school students and an English Story Telling Competition for middle school students. For online activities, both geoparks held webinar sessions together, and discussed various topics on geopark management, conservation, science popularization, sustainable development, geo-hazard

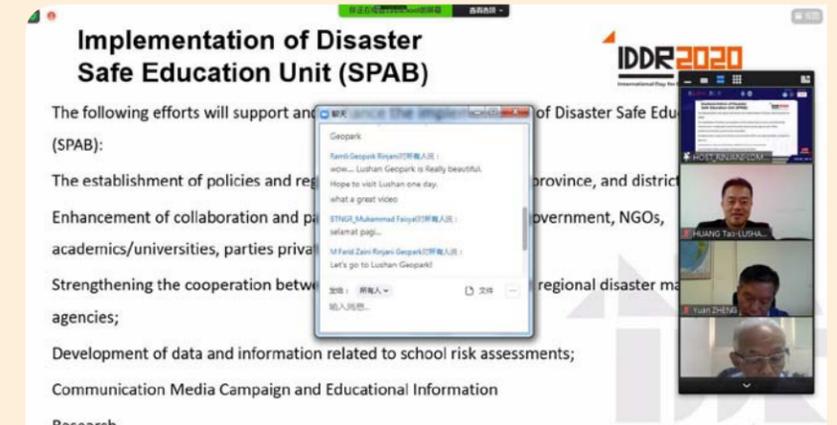
prevention and treatment, and also organized mutual promotion.

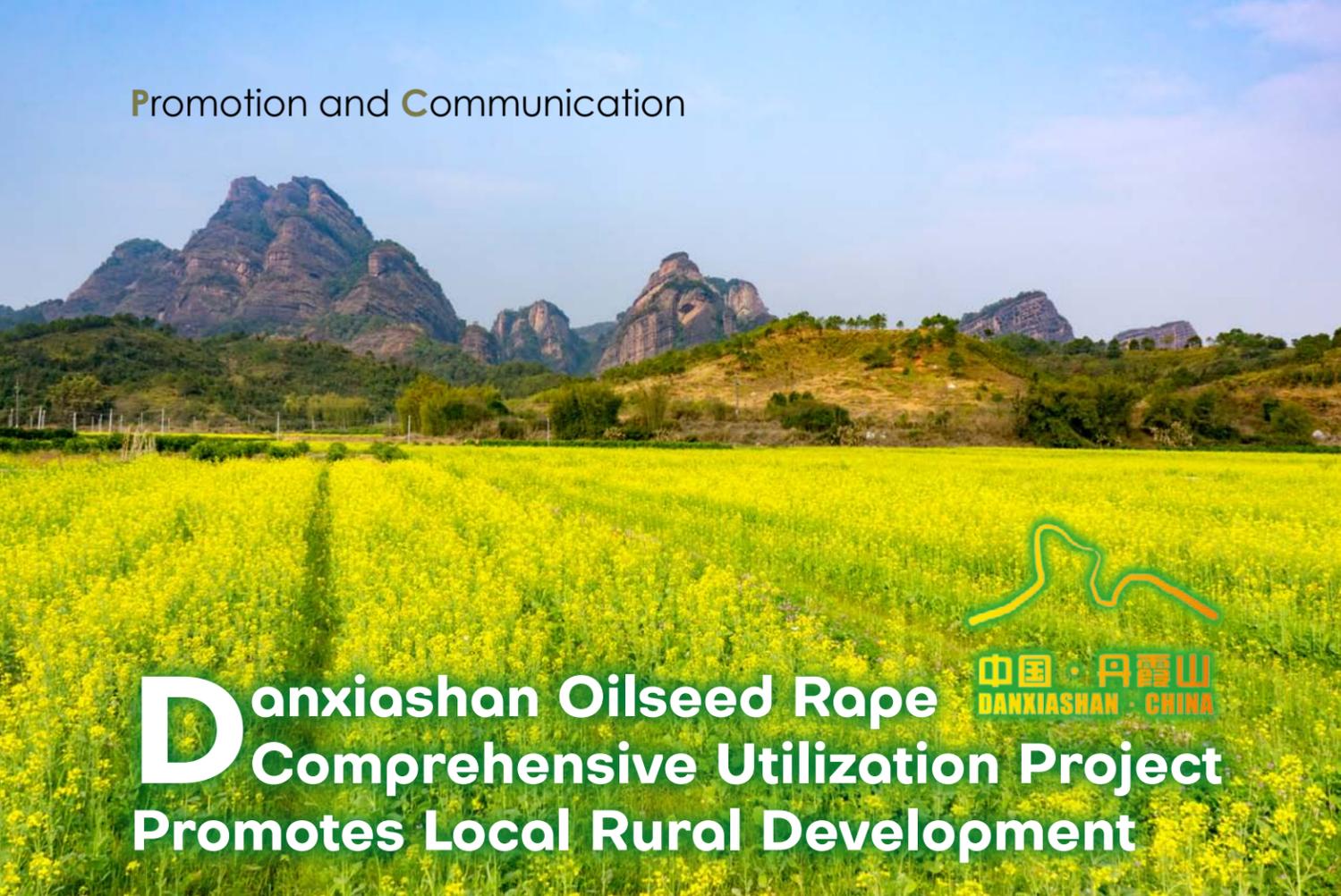
Indonesian dignitaries include Governor of NTB's representative, his vice governor Dr. Hj. Sitti Rohmi Djalillah, Odo R.M Manuhutu, Deputy for Tourism and Creative Economy Coordination of Indonesia, Prof. Ainun Na'im, Ph.D,

Secretary General of Ministry of Education & Culture of Republic of Indonesia, Prof. Arief Rahman, Indonesian National Commission for UNESCO, and Prof. SHAHBAZ KHAN Director UNESCO Regional Science Bureau for Asia and the Pacific. Mr. ZHENG Yuan, Coordinator of Chinese Geoparks Network, Mr. SHI Wanli, Director, Ms. XIE Lingchao, deputy director, and geologists of Management Office Lushan UGGp participated in the webinar. The winners of Poetry Reading Competition & Story Telling Competition from both countries had been announced in the webinar.

In the webinar, the promotion video films of two geoparks had been shown repeatedly, which have enhanced the mutual understanding between two geoparks. Many Indonesian participants praised Lushan UGGp for her cleanness and beauty, and expressed their wish to visit Lushan UGGp in the near future.

Huang Tao
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Danxiashan Oilseed Rape Comprehensive Utilization Project Promotes Local Rural Development



Danxiashan UNESCO Global Geopark, China

With the coming of spring, more than 165 acres of oilseed rape in the Xiafu Village and Chewan Village of the Danxiashan UNESCO Global Geopark yield a bumper harvest. This is the achievement of the first comprehensive utilization project of a new variety of oilseed rape in the Danxiashan UGGp.

The boundless sea of the oilseed rape flowers exudes the vitality of spring, laying a

golden carpet on Danxiashan and conveying warm greetings of nature to human beings.

The golden oilseed rape flowers, surrounding red peaks, quiet ancient villages, and Danxiashan rural tourism road constitute a beautiful Danxia pastoral painting.

The oilseed rape in this area was planted by local villagers, under the guidance of Danxiashan Administrative

Committee, Shaoguan University, Bureau of Agriculture and Rural Affairs of Renhua County. They were instructed by Professor Fu Tingdong, who is praised as an “Academician of Oilseed Rape”. The project was established by the Science and Technology Bureau of Shaoguan Municipality and conducted by Dr. Zheng Lijun and Dr. Li Haibo from Shaoguan University. They selected a new variety of oilseed rape and

used large areas of idle fields in Danxiashan in winter, for the purpose of exploring the multi-functional utilization of oilseed rape and revitalizing the villages in protected areas.

“The planting of this new variety of oilseed rape is based on a multi-functional utilization model. We can get high-quality oilseed rape vegetables in the mud blooming period. People can enjoy flowers and have oilseed rape honey

during flowering. Green fodder and rapeseed oil are what we can get at the end of flowering. We are striving to increase the income of the villagers in the protected area in different ways. This is a high-quality ecological agricultural project that can be promoted in the Geopark for a long time.” said by the person in charge of the project.

Luo Ying, an oilseed rape grower, said that although tourism and the sale of oilseed rape

vegetables have been affected by the outbreak of COVID-19, they got good incomes by selling oilseeds. According to a rough estimate, it can increase income by more than 1,000 RMB per 667 square meters, compared with the original planting model.

Li Guiqing & Xiao Wei
Danxiashan UGGp, China



The 9th International Conference on UNESCO Global Geoparks

Jeju Island UNESCO Global Geopark, Republic of Korea

As the COVID-19 spread continues around the world, the registration of the 9th International Conference on UNESCO Global Geoparks is temporarily suspended. The meeting was put off till September 9-15, 2021. We are continuing to monitor the global trends regarding the spread of COVID-19 and we would like to ask you not to arrange your flights and accommodation until further notice. The health, safety, and security of all our members and the communities they serve are our

highest priorities. We sincerely hope that everything will get back to normal as early as possible and meet you in good health on Jeju Island.

Check out our website (<https://www.jejuggn2020.org/>) for a complete schedule of events and activities.

Jeju Island UGGp has unveiled a newly-installed field program.

A half-day field program will be offered in addition

to a full-day field trip.

This additional program will provide participants with more opportunities to interact with colleagues from different parts of the world as they enjoy relaxing retreats and research on the formation process of Jeju Island.

Promote Your Geoparks!

Take full advantage of our large exhibition hall appropriated to the promotional booth space. Promote your own Geopark.

The first-ever Geopark Film Festival will be held



Announcements



at the Conference. We strongly encourage you to submit a promotional video in advance.

Awards will be granted to outstanding films.

Geopark Youth Forum on International forum for Future Leaders of UGGps

The 1st GGN Youth Forum is a great opportunity for future leaders to exchange and share ideas.

Want to learn more about Geoparks of the Republic of Korea?

A contest for Geopark Interpreters of ROK will tell you a great deal.

Come and have a look at the promotion booth for the Korea's National Geoparks and the educational materials and methods they use.

Discover the unique charms of the Republic of Korea

Are you planning to dive into the depths of the Korea's National Geoparks? Sign up for Post-Conference Tour.



A limited number of seats are available on a first-come, first-served basis.

Flight tickets are not included. For more information, please contact those in charge.

For further details on the 9th International Conference on UNESCO Global Geoparks: contact Sookyung Kang, registration@jejugn.org, Juyeon Byun, info@jejugn.org, or call +82-64-735-1087

More information on Jeju Island UGGp, contact Dr. Yongmun Jeon, ymjeon74@korea.kr



SUBMISSION GUIDELINE

The GGN Newsletter will be published regularly on a quarterly basis. Submissions of January, February and March will be published as ISSUE 1 of the current year by the end of April, and so on. Submissions of October, November and December will be published as ISSUE 4 by the end of January of the following year.

The contents of the articles could involve the following themes: 1_GGN Networking and Common Activities, 2_Geo-Tourism, 3_Activities and Events, 4_Geo-Education and Science Popularization, 5_Promotion and Communication, 6_Human and Nature, 7_Culture and Custom, 8_Conferences, Courses and Workshops (which have happened), 9_Announcements (Future Conferences, Courses and Workshops), etc.

Article template and requirements:

THEME: you could choose one of the 9 themes above or you could define a theme.

TITLE: no more than 20 words.

GEOPARK NAME: If the article is from a geopark.

MAIN BODY: 1_Times New Roman, 11 pt. 2_For the length of the texts, it is better between 300-500 words of each text. 3_The file needs to be saved under the Issue_THEME_geopark/affiliation. For example, 2018 ISSUE 1_Geo-Tourism_Yanqing UGGp, China.

INFORMATION OF THE AUTHOR: author's name, affiliation/organization, COUNTRY, email.

THE PHOTOS: no more than 5 photos and related captions (captions could be added at the end of the article) and the logo of the geopark (if the article is from a geopark).

We will notify you within two weeks prior to publication whether we accept or reject the article. And we will make appropriate modifications without changing the original meaning of the article.

You can download the past issues of GGN Newsletter on the following website:

<http://www.globalgeopark.org/News/Newsletter/index.htm>

Submission email: ggnnewsletter@163.com.

Welcome your contributions! If you have any questions, please do not hesitate to contact us.

Editorial Board