VOLCANO ACTIVE

FOUNDATION

MEMORY 2019

INTERNATIONAL FOUNDATION FOR DISASTER RISK REDUCTION IN VOLCANIC ECOSYSTEMS

VOLCANO ACTIVE

Memory Volcano Active Foundation

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Founder's Letter

The Volcano Active Foundation is a non-profit foundation whose main objective is to support scientific research, development and dissemination of results on the activity of volcanoes and their risks in the world, the mitigation of volcanic hazards and their knowledge through social projects.

Worldwide, more than 500 million people live in active volcanic areas.
60% of active volcanoes have no monitoring system.
We only have satellite data.

At the Foundation, we strongly believe that a volcanic eruption is a global problem that needs to be addressed on a global scale.

Volcanic activity not only affects volcanic ecosystems, it also directly affects climate change and sea level rise.
We are defining the resilience of volcanic ecosystems and enhancing the adaptive capacity of the environment as a means of reducing disaster risk.

WE ACT THROUGH

Volcano Science:
Studies, analysis and practices in volcanic terrain with local technicians & scientists.

Volcano School
International programme to raise awareness of volcanic hazards and the world of volcanoes among schoolchildren and high school students.

Volcano Active-Gpark
Preservation of the natural volcanic environment through socio-economic development of the area.

Our first year was exciting and intense. Our work is difficult, we are faced with a difficult awareness. Volcanoes can be destructive and affect ecosystems on a global scale, but they can also be a source of life and promote ecosystems.

We have had many volunteers and we hope for continued growth to develop our projects.

ANNE FORNIER. *Founder*

WHO WE ARE

WE ARE SCIENTITS WHO GO BEYOND SCIENCE

We strongly believe that there is an urgent need to
prioritize proactive disaster risk reduction
rather than react to disaster events.

OUR VISION

We define the ***resilience of volcanic ecosystems***, and enhance the ***capacity of adaptability of the environment*** as a means to reduce disaster risk.

OUR MISSION

We establish ***common governance guidelines in volcanic ecosystems*** for disaster risk reduction

OUR VALUES

TRANSPARENCY

We take responsibility for our projects and the environment. We value honesty and present a clear picture of social and economic accounts to our partners, collaborators, donors, beneficiaries and society.

EQUALITY

We believe in a better future for all, that is why we look after the dignity and rights of all, supporting diversity.

COMMITMENT

It is our duty to fulfill our mission and vision, to give the best of ourselves to carry out projects to the best of our abilities.

PASSION

It is the force that moves us, we are passionate about the study of volcanoes and the rights of people. We love what we do. We are proactive, determined and we fight for this project to become a reality.

UNITY

We believe in collaboration as the driving force of all systems, we build our project with other organizations and institutions to to increase opportunities and improve performance.

SOLIDARITY

We want to eradicate inequality in the communities with which we work, through a development approach based on Human Rights.

GOUVERNE & GESTION:

Executive Director
ANNE FORNIER

Secretary & scientific director
LLORENÇ PLANAGUMÀ I GUÀRDIA

Speaker
PHILIPPE JEAN CHRISTOPHE LOUIS COTTEN

Administrative and legal management
SF ABOGADOS
www.sfabogados.com

PROGRAMS

WE DEVELOP OUR WORK IN THREE AREAS

Volcanic disaster risk prevention can save thousands of lives and the environment.
This is why we develop three different programs:
Volcano Science, Volcano School and Volcano Geo

WE ACT THROUGH

01 SCIENCE

Study of the resilience, adaptability and transformability of volcanic ecosystems.

02 EDUCATION

Disclosure for knowledge of volcanic ecosystems and their disaster risks.

03 GEO-CONSERVATION

To arrange and oversee the preservation of natural volcanic areas for the socio-economic improvement of local inhabitants.

PLATFORM FOR CREATION, DONATION AND WEB IDENTITY.

Our main role is the awareness and dissemination of volcanic hazards and the resilience of ecosystems in volcanic areas. Therefore, one of our goals was to create a web platform and online donation management. Secondly, we need to communicate the risks, and our actions, for which we are creating a social network for information and general communication.

The interpretation and prediction of volcanic eruptions and the identification of the most likely scenarios involve a high degree of uncertainty, which must be quantified and clearly explained in order to properly convey scientific information to volcanic crisis managers.

We work collaboratively to optimize the understanding of risks.

Our website is in 3 languages, our networks are on Instagram channels: volcanoactivefoundation, Volcano Active Facebook foundation, Twitter: @ volcanoactive1, linkedin: volcanoactivefoundation.

www.volcanofoundation.org

SCIENCE : RDCONGO VIRUNGA

We promote the professional training of volcano specialists and are committed to the academic and practical development of local scientists.
Under the direction of Anne Fornier & Charles Balagazi
15- 16 -17 February 2019

Direct beneficiaries of the program: 1 Ph.D., 1 technician, 1 graduate student in biochemistry.

1-We cover the academic and training costs, the bachelor's level of two members specialized in biochemistry and technical renovation to work and analyze at Lake Kivu under the direction of Dr. Charles Balagazi.

2-We promoted and subsidized the travel of the Virunga Supersite Manager, Dr. Charles Balagazi for a cooperation meeting with the scientists of the Italian INGV and the Super Site Manager: GSNL.

3- Dissemination of the Lake Kivu problem in different media, with paid campaigns (Facebook Ad) and radio interviews.

Why is Lake Kivu one of the most dangerous lakes in the world?

There is a rarely mentioned yet devastating volcanic phenomenon. It is the limbic eruption or the sudden release of carbon dioxide. There are only three lakes in the world that fill this feature, two in Cameroon and the third in Congo, Kivu.
We know that in 1986 Lake Nyos had a limbic eruption that killed 1,700 people. The carbon dioxide is lodged at the bottom of the lake and all of a sudden, for some seismic reason, an eruption or a change in the composition of the lake will explode like a small nuclear bomb.
Carbon dioxide is heavy, colourless, odourless and expels oxygen. People die of suffocation, brutally. Compared to Lake Nyos, Kivu is 1300 times bigger. Around Lake Kivu there are two million people between Congo and Rwanda. I let you imagine the scale of the disaster.

The extraction of methane (produced by two simultaneous processes: reduction of magmatic carbon dioxide and oxidation of organic matter by bacterial activities) and its exploitation by foreign companies, which seemed to provide an economic solution for the Rwandan side, is environmentally disastrous. The water discharged after extraction does not return to its original layer, which accentuates the depletion of the lake ecosystem. The surface layers act as a shield. Nutrients that plunge into the deep water never reappear. This shield accentuates the saturation of the gas in the lake.

VOLCANO SCHOOL

Under the direction of Octavi Bonet

January - April 25, 2019

Direct beneficiaries of the programme:

193 children Direct beneficiaries of the programme
4 persons from Tosca Serveis Ambientals d'Educació i Turisme

It was born out of the need to introduce the world of volcanology to students living in volcanic areas, which implies the empowerment of these boys, girls, men and women who will sooner or later be the reference points for transmitting values and the protection of this geological and social phenomenon that are volcanoes.

Therefore, this project aims to work on the following strategic objectives:
-Provide knowledge and encouragement to students who live in volcanic areas around volcanism.
-To train students to transmit knowledge, values, ... related to the social, historical, geological ... aspects of their volcanic area.
-Connect students from different volcanic regions of the world through new technologies.
-Provide students from socially disadvantaged areas with the means to discover a volcanic area.
-Create a network of students' knowledge about volcanoes.

The meaning of the project goes beyond the simple discovery of a close and living natural environment such as volcanoes. It aims to connect students from a close and less close territory, on the one hand, and also to work on the ability to transmit the knowledge acquired, on the other hand.

PRELIMINARY RESEARCH: ETHIOPIA

Under the direction of Anne Fornier

1-8 January 2019 | 14 - 21 March 2019 | 12 - 20 April 2019

The volcanoes of Ethiopia are poorly known and even less studied. Its geographical location in areas of difficult access, the lack of resources for its studies and discoveries, the preference for the study of the basic sciences of the opening of the Rift has meant that today several volcanoes are still under study. And many more to be discovered.
There are 67 volcanoes, on an initial diagnosis, about ten have not been identified, making Ethiopia the first country in volcanic Africa. The best known is Erta Ale in the north, which has been erupting continuously since 1967.
The existence of hot springs at temperatures close to 80°C indicates that the Ethiopian territory is geologically unstable.
Most of the analysis is done along the fault that separates the Somali Plate from the African Plate, the so-called Great Rift Valley.
On 12 June 2011, a series of earthquakes struck northeast Eritrea, with the two strongest shocks reaching 5.7 at Richter and a dozen magnitudes above 4. An eruption occurred in the region, probably near the Nabro River, but the exact location needs to be confirmed due to the many volcanoes in the area.

The lack of surveys and analysis, geologically unstable terrain along the crack, suggests that the area needs to be surveyed to warn people of the potential risks.
In southern cities, large numbers of young people and adults suffer from dental fluorosis related to groundwater and surface water contamination.
The desire to create specialized university training in volcanology and risk management for young Ethiopian researchers and African countries is becoming a necessity.

GEO CONSERVATION PARICUTIN

Under the direction of Llorenç Planagumà
17 -27 february 2019

The Paricutin volcano. Trails and interpretation.
The Paricutin volcano is one of the precursors of modern volcanology when it appeared in 1943 when a fissure was opened in the middle of a culture without apparent warning. This eruption was studied live by volcanologists who were later able to compare their products to the activity of the volcano. From then on, it became a centre of scientific and tourist attraction. Currently there is no coordinated management for access to the volcano and the three communities most affected by the eruption, some displaced and all because their population is buried by lava, are not coordinated for visitor management, trails and/or conservation. natural values. As a result, the volcano has erosion on its trails that increases each year.
Promote geo-conservation of volcanoes.
The knowledge of the volcano among the population living with Paricutin, creates a plan for public use in the volcano and coordinates different actors related to the volcano.
Objectives
Avoid erosion of the volcano along the trails.
Improve interpretation of the volcano.
Analyze what conservation actions could be carried out between the three communities.
Actions & Results
Community Volcano Observatory to promote its conservation.
Diagnosis of community tourism promoted among the three communities of the volcano co-participated with Alba Sud.
Restoration of trails and public use.
Improve access and landscape on the volcano.
Improve the living conditions (material and spiritual) of the populations living with Le Paricutin.

SEARCH FOR UNKNOWN VOLCANOES OF THE VOLCANIC AREA OF GARROTXA.

Under the direction of Llorenç Planagumà
September - December 2019

Garrotxa volcanic area has some fifty volcanoes, most of which do not know the details of its eruption. For science it is important that these volcanoes are characterised and their eruptive dynamics are discovered. This knowledge is used to improve tourism in the region, to improve the conservation of the natural heritage of the region and to mitigate volcanic risks worldwide.
The new challenge for science is the involvement of society in data collection. That is why this research project takes into account the involvement of the population living with volcanoes.

Working areas
Volcanoes of Sant Feliu de Pallerols. The volcanoes of Puig Roig and Sant Marc, their relationship is unknown, what eruptive phases they had and how far their lava flows reached.

Method
The investigation of these volcanoes will be carried out using the following methods:
Volcanic mapping at 1: 1000 of the volcanoes.
Stratigraphic columns.
Granulometries of the different units.
Petrology sheets of your castings.
Geochronology if the technique allows it.

COLLABORATIONS

Cooperation is strength

VOLCANES SIN FRONTERAS is a non-governmental organization dedicated to the study of volcanoes and the dissemination of scientific knowledge to the general public.

Through Volcano Active, we seek to create a global network of school connections around the world to enable the exchange of learning about volcanoes, geology and culture from different parts of the world. Of course, this collaboration cannot take place without experts. This is why we have the collaboration of Volcanes Sin Fronteras.

On the other hand, the support of Volcanes Sin Fronteras goes beyond early childhood education, we are looking for a large-scale dissemination of the memory of volcanic eruptions for all populations, to raise awareness of volcanic risks. This will be done through a series of documentaries and reports on volcanic incidents around the world, which is why we are joining your "Volcanologist for a Day" initiative.

GlobalGeoNews.com

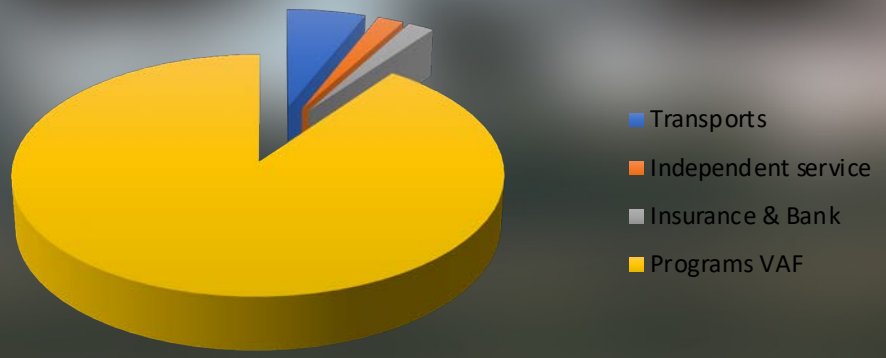
GLOBALGEONEWS.COM is the real-world digital diary, transmitted by BEW. Its three pillars are the big report, the interviews and the decoding (research).

Its teams (52 employees) produce important video reports, often in co-production with television channels such as France 2 (Envoyé spécial, 1:15 pm Saturday) Arte (Arte Reportage, Arte Info), France 3 (Qui Sommes-Nous) - France 24 (Reporters - Focus), RTS, Radio Canada.

He received 4 awards on the Sunny Side in 2017 and won a grand prize at the Singapore Documentary Film Festival.

ACCOUNTS 2019

77711,24 euros



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THANK YOU

YOUR HELP MAKES THE DIFFERENCE

ACTIVE PEOPLE

www.volcanofoundation.org