



Project acronym: VOLCANOES NIGHT III

Project full title: Volcanoes' Night III – Researchers' Night of the Canary Islands
Grant Agreement no: 633 310

HORIZON 2020 CALL H2020-MSCA-NIGHT 2014
EUROPEAN RESEARCHERS' NIGHT 2014

Deliverable 2 PERIOD 2
Report on the activities of the night 2014 (PU)

Due date of deliverable: together with the draft periodic report at the latest
Actual submission date: together with the draft periodic report

Start date of the reporting period: 01/12/2014

Duration of the reporting period: 12 months

Coordinator: La Palma Research Centre S.L.

The principal objective of the Night consisted of enhancing the public recognition of geoscientists and improving the understanding of the impact of their work on citizen's daily life. All this was to be achieved by offering the public a set of edutainment activities in the Canary Islands and in Ciudad Real province.

During the programme development the following specific objectives were also taken into account:

- Tackling the existing stereotypes about researchers by involving the audience in discussions concerning their work and aspects of their everyday life (including their struggles and problems etc.);
- Demonstrating the use of geology in citizens' daily life by highlighting connection between science and innovation;
- Pointing out European cooperation and support in favour of research, and thus stimulating young people to embark on scientific carriers;
- Raising public awareness towards geology-related science and, in case of the Canary Islands, the role of volcanoes and the risks deriving from living in an active volcanic area.

The project created a new, truly alternative programme for “a Friday night out” (compared to typical local events and fiestas), where everyone could find something interesting for themselves from families with kids to the older generation.

In 2015, Volcanoes' Night III was celebrated on all the seven Canary Islands and the experience was also “imported” to the Spanish mainland, to Ciudad Real province (4 locations) and to Olot (Girona). In total, celebrations took place in 12 distinctive locations as follows¹:

- Fuencaliente, La Palma (4th edition): San Antonio Volcano Centre (Centro de Visitantes Volcán san Antonio), Town Cultural Centre (Centro Cultural de los Canarios) and town centre, Restaurante Jardín de la Sal, Restaurante La Casa del Volcán;
- Puerto de La Cruz, Tenerife (3rd edition): Plaza de Europa, Sala Timanfaya, Ébano Café, The Moon Tasca Bar, Mansion Lounge & Music, Cafetería Bar Dinamico, Cafetería CIT Puerto de la Cruz, outside Casa de la Real Aduana, Plaza de la Iglesia de la Pena, Exconvento Sto. Domingo;
- La Frontera, El Hierro (3rd edition): Plaza de Tigaday & Calle Tigaday; Town Hall (Salón de Plenos del Ayuntamiento de La Frontera), Touris Office (+ Restaurante Don Din 2 “Casa Pucho” and El Sarao);
- Yaiza, Lanzarote (3rd edition): Town Cultural Centre Benito Perez Armas (Sala I-II., patio & exteriors);

¹ These locations do not include the excursions organised exterior/but connected to the main venues.

- Hermigua, La Gomera (2nd edition): Plaza de la Encarnación (main tent) and Town Cultural Centre, Plaza Victoriano Darias, CEO Mario Lhermet Vallier, Espacio Cultural El Convento;
- Ingenio, Gran Canaria (2nd edition): Playa el Burrero (exterior), Cafetería del Club Náutico El Burrero, Bar El Muellito;
- Pájara, Fuerteventura (2nd edition): Plaza San Miguel, Salón de Actos IES Jandía;
- Almagro, Ciudad Real (2nd edition): Almagro Town Visitors' Centre (Centro de Recepción de Visitantes de Almagro);
- Argamasilla, Ciudad Real (1st edition): Town Municipality (Salón de Plenos del Ayuntamiento de Argamasilla de Calatrava);
- Piedrabuena, Ciudad Real (1st edition): Town Cultural Centre (Centro Cultural, Rodriguez Martin Piedrabuena);
- Valverde, Ciudad Real (1st edition): Centro social de Valverde;
- Olot, Girona (1st edition): Pati de L'Hospici;

The detailed description of the different activities and the approximate number of visitors they attracted (when it was possible to make a distinction by venues) are listed below (in chronological order starting from preliminary actions through main programme elements to extra, parallel side events , always indicating location/s where necessary).

Preparatory activities (pre-event)

Drawing & Writing Competitions

The call for pre-event competitions was sent out during the last part of the yearly course, in June.

The main theme of the Drawing Competition was “The role that scientists play to move forward knowledge about volcanoes (the role of volcanologists through their job)”. This call addressed primary school students of the venue municipalities, as well as all secondary and high school (bachillerato) students from all the Canary Islands & Ciudad Real. The Jury at each venue was composed of scientists and artists having previously participated in the activities of the particular night. All entries were exhibited (all locations), and winners (the first three) of each category were awarded, received a ‘diploma’ during the celebration of the night² at all locations. In total, 29 schools participated in this pre-activity and 739 drawings were collected.

The main topic of the Writing Competition was “Scientists work on volcanoes”. It addressed the primary (above age 9), secondary and high (bachillerato) school students of all venue municipalities (except for Olot). Jury was formed of Spanish language teachers and the

² Prizes included: Volcano Calendars of INVOCAN 2015 and small gadgets etc.

winners of each category were awarded during the night, while all other participants received a certificate. Altogether, 11 schools participated in this activity and 37 entries were collected.

In the Annex of D2 can be found the announcement of the calls detailing the rules for both competitions (in Spanish); awarded entries can be seen/read on the project website under Competitions (Concursos) menu.

La Noche de los Volcanes en el Puerto de la Cruz entrega los premios de los concursos de dibujo y redacción



Los concursos registraron una alta participacion de estudiantes de primaria y secundaria

Puerto de la Cruz a, 18 de septiembre de 2015.- Los concursos de dibujo y redacción relacionados con el evento de LA NOCHE DE LOS VOLCANES en

Group of local school students with their Volcanoes' Night certificate.

Volcano Excursions, fun-learning field activities for all

When it comes to volcanology and geology, experts, instruments and people should go to the field and do most of their research on the spot. Therefore, similarly to past years, a series of warming-up volcano excursions were organised as part of the preparatory activities in all venue locations (except for Olot, Girona). In some cases to allow participation of late-afternoon workers further longer excursions were organised on 26 of September 2015, Saturday. These scientist-lead trips (those organised on the islands) were indicated on the project website in advance of the event as well as were listed in the specific agendas (all locations). In order to reach the largest attendance possible (e.g. attract non-native residents as well as tourists), at times, selected excursions were facilitated by translators (into German and English). In total, the following 25 routes (including night-time astronomy tours) were organised:

La Palma

1. "Fuencaliente, a unique volcanic experience - from the village to the light-house"

Venue: Fuencaliente, La Palma;

Guide: Javier Dóniz;

Timetable: 9:00 – 13:00;

Meeting point: Tourist Office, Los Canarios, Fuencaliente;

Number of places: 25;

Language: Spanish (English);

Itinerary: Oficina de Información Turística de Fuencaliente , Volcán San Antonio, Volcán Teneguía, Litoral de Fuencaliente.

2. "Walking along the edge of a volcano crater"

Venue: Fuencaliente, La Palma;

Timetable: 13:15 (with English translation), 14:00, 14:45 (with German translation);

Meeting point: San Antonio Volcano Visitor Centre;

Languages: Spanish, English and German;

Itinerary: Centro de Visitantes del Volcán San Antonio, Borde de Cráter del Volcán Teneguía, Centro de Visitantes del Volcán San Antonio.

3. "The route of volcanoes - Cumbre Vieja"

Venue: La Palma;

Guide: Javier Dóniz and Mar Alonso;

Timetable: 09:00, 26 of September 2015 (Saturday);

Number of places: 20;

Meeting point: El Pilar;

Languages: Spanish (English);

Itinerary: a 14 km (8 hours) route from El Pilar to Fuencaliente.

4. "Journey to the heart of the island"

Venue: La Palma;

Guide: Ramón Casillas;

Timetable: 09:00, 26 of September 2015 (Saturday);

Meeting point: parking lot barranco de las Angustias;

Number of places: 50;

Languages: Spanish (English);

Itinerary: a 6 km (5 hours) route - Cumbre Nueva;

Tenerife

5. "The summit cone of Teide"

Venue: Puerto de la Cruz, Tenerife;

Guide: David Calvo;

Timetable: 09:00 (3 hours);

Number of places: 20 (FULL);

Meeting point: Mirador de San Pedro (Rambla de Castro);

Language: Spanish (English);

Itinerary: La Rambleta - Mirador de la Fortaleza - Mirador de Pico Viejo - La Rambleta.

6. Puerto de la Cruz Geotourism ,Urban Itinerary for the inner part of Puerto de la Cruz
Venue: Puerto de la Cruz, Tenerife;
Guide: Fernando Raja;
Timetable: 15:00 (2,5 hours - 3 km-s);
Number of places: 30 (FULL);
Meeting point: Parking lot Taoro Park;
Language: Spanish (English);

7. "Building with Volcanoes"
Venue: Puerto de la Cruz, Tenerife;
Guide: Luis Hernandez;
Timetable: 09:00 – 13:30;
Meeting point: at the laboratory;
Number of places: 30;
Language: Spanish (English);
Itinerary: Visiting the Public Work and Construction Laboratory;

8. "Stargazing form an active volcano"
Venue: Parador de las Canadas del Teide, Tenerife;
Timetable: 23:00 (3 hours);
Language: Spanish (English);

9. "Fasina Volcano"
Venue: Tenerife;
Timetable: 09:00 (5 hours), 26 of September 2015, Saturday;
Language: Spanish;

10. "The red volcanoes"
Venue: Tenerife
Timetable: 10:00 (5 hours), 26 of September 2015, Saturday
Language: Spanish (English)

El Hierro

11. "Geological Heritage of El Hierro"
Venue: El Hierro;
Guide: Juan Jesús Coello Bravo;
Timetable: 09:00 - 12:30 26 of September 2015, Saturday;
Meeting point: Plaza de Tigaday;
Number of places: 30;
Language: Spanish (English);
Itinerary: 3-4 hours trip along the north cost of the island;

Lanzarote

12. "Volcanoes from another perspective"
Venue: Yaiza, Lanzarote;
Guide: César Rijo;
Timetable: 10:30 (2 hours);

Meeting point: Casa de la Cultura “Benito Armas”;
Number of places: 30;
Language: Spanish;
Itinerary: a short and easy circular route visiting “El Lomo del Cura” mountain;

13. “Volcanism along the cost of Lanzarote”

Venue: Yaiza, Lanzarote;
Guide: Carmen Romero;
Timetable: 09:30 - 14:00, 26 of September 2015;
Meeting point: Casa de la Cultura “Benito Armas”;
Number of places: 50;
Language: Spanish;
Itinerary: Salinas, Janubio, Hervideros, El Golfo, fisura de Juan Perdomo;

La Gomera

14. “Geological field trip along the valley of Hermigua”

Venue: La Gomera;
Guide: Silvia Hernandez;
Timetable: 15:00 (3 hours);
Language: Spanish;

15. “Cultural-artistic-historic of Hermigua”

Venue: Hermigua;
Guide: Ricardo Valeriano;
Timetable: 10:00 (3-3,5 hours);
Meeting point: Plaza del Convento;
Number of places: 20;
Language: Spanish;
Itinerary: a short (2 km-s) guided tour for the old convent of San Pedro and the churches of Santo Domingo de Gúzman y de la Encarnación;

Gran Canaria

16. “Field trip to the Bandama Volcano”

Venue: Gran Canaria;
Guide: Juan Ramón Jiménez López;
Timetable: 09:00 - 13:30, 26 of September 2015;
Meeting point: Fuente Luminosa;
Number of places: 25-30 (FULL);
Language: Spanish;
Itinerary: tour by bus and short walks on the spot;

17. “Die Vulkanwelt von Gran Canaria”

Venue: Gran Canaria;
Guide: Hans Schmincke und Maru Sumita;
Timetable: 09:00, 26 of September 2015 (8-10 hours);
Number of places: 55;
Meeting point: Campo Internacional, Maspalomas;

Language: German;

Fuerteventura

18. "Walking through a 180-million years old seabed"

Venue: Fuerteventura;

Guide: Margarita Gutiérrez González;

Timetable: 10:30 (3 hours);

Meeting point: Playa de Ajuy;

Number of places: 30;

Language: Spanish;

Itinerary: Visiting the layers of the oceanic crust;

Ciudad Real province

19. "Geo-excursion to the La Yezosa (Almagro) Volcano and its surroundings"

Venue: Almagro, Ciudad Real;

Guide: Rafael Becerra Ramírez;

Timetable: 10:30 - 14:30;

Meeting point: Almagro Visitors Centre;

Language: Spanish;

20. "Night excursion to the Hoya del Nandin"

Venue: Almagro, Ciudad Real;

Guide: Pedro Torres;

Timetable: 21:30 - 00:00;

Meeting point: Almagro Visitors Centre;

Language: Spanish;

21. "Geo-route - Discovering the volcanoes of Argamasilla de Calatrava "

Venue: Argamasilla de Calatrava, Ciudad Real;

Guide: Rafael Ubaldo Gosálvez Rey;

Timetable: 10:00 - 14:00;

Meeting point: IES Alonso Quijano;

Language: Spanish;

22. "Geo-route - The volcanic material of Piedrabuena"

Venue: Piedrabuena, Ciudad Real;

Guide: Estela Escobar Lahoz;

Timetable: 11:30 - 14:00;

Meeting point: Piedrabuena Cultural Centre;

Language: Spanish;

23. "Night excursion to Sierra de la Cruz"

Venue: Piedrabuena, Ciudad Real;

Guide: Hiking Club Piedrabuena;

Timetable: 22:00 - 00:00;

Meeting point: Piedrabuena Cultural Centre;

Language: Spanish;

24. "Knowing my volcanoes - Visit to the crater of Fuentilejo"

Venue: Valverde, Ciudad Real;

Guide: Elena Gonzalez Cárdenas;

Timetable: 10:30 - 14:00;

Language: Spanish;

25. "Volcanoes & Stars"

Venue: La Rosadilla, Ciudad Real;

Guide: with collaboration of the Astronomy Association;

Timetable: 21:30 - 00:00;

Language: Spanish;

The excursions proved to be attractive programme elements. Altogether about 250 persons participated in these guided trips, all age groups being represented and some tourists included.

Scientific experiments

The popular scientific experiment of "What is and how to measure the non-visible silent degassing of carbon-dioxide from an active volcano" was repeatedly organised in Fuencaliente, La Palma. During the experiment, scientists emphasized the importance of such measurements, as an early warning signal from a volcano about to erupt imminently. Researchers also allowed people to check and use the equipment themselves, which was really appreciated by the participants. Try-outs took place according to the below schedule:

San Antonio Volcano Centre, Fuencaliente, La Palma: 10:00 – 13:00 lead by Mar Alonso;

In total, these performances attracted about 450 people (90% of which were secondary school students).



Teenager measuring the silent degassing of carbon-dioxide in Fuencaliente, La Palma.

Main event

The core part of the programme, at each island venue, started with an official Opening Ceremony with the presence of town mayors and participating scientists (in case of the Canary Islands) or a bit less "officially" with a project introduction in case of the newly involved locations in Ciudad Real province and in Olot. These openings were followed by the core activities one after the other in a consecutive order (only with minor divergence in between the locations (however, due to the different starting hour: 16:00 - 19:00, the precise schedule of the activities were rather different this time).

In addition to the original plans laid down in the DoW, some extra, parallel side activities also took place. More information on each activity indicating the approximate number of attendees (when it was possible) is listed below.

My Day presentations

La Palma: Town Cultural Centre, Assembly room, 16:15 – 17:00;
Participating scientists: Ramón Casillas (ULL) and Javier Dóniz (ULL);

Tenerife: Plaza de Europa, 18:15 – 19:00;

Participating scientists: Celestino García de la Noceda (IGME), Darío Orozco (IAC), Pablo González Méndez (University of Leeds), Nemesio Pérez (INVOLCAN), Jesús Rivera (IEO);

El Hierro: Plaza de Tigaday, 18:45 – 19:30;

Participating scientists: Rayco Marrero (LNEG, Portugal), Juan Jesús Coello (CIAT);

Lanzarote: Town Cultural Centre Benito Pérez Armas (Main salon) 17:15 – 17:45;

Participating scientists: Angel Rodríguez (ULPCG) and Fatima Rodríguez (INVOLCAN);

La Gomera: Plaza de la Encarnación, 18:45 – 19:30;

Participating scientists: Germán Padilla (ITER), Juan Carlos Santamarta (ULL) and Melchor González Dávila (ULPCG);

Gran Canaria: Playa El Burrero, 18:15 – 18:45;

Participating scientists: Pedro A. Hernández (INVOLCAN), Javier Fulla (DIAS, Ireland), Roberto Quevedo (INVOLCAN);

Fuerteventura: Plaza San Miguel, 18:15 – 19:00;

Participating scientists: Antonio Rodríguez (ULL), Antonio Ramos (ULPCG) and Maria Asensio (INVOLCAN);

These sessions followed a similar pattern at each location. As first, in order to warm up the audience, scientists introduced the different aspects of their work (from a typical ‘Office’ day to field missions, laboratory experiments, science communication actions etc.), also mentioning what they like to do in their free time. Their speech, wherever possible, was accompanied by illustrating videos and photos. Participants were very eager to ask questions and “interrupt” any time; moreover scientists also “provoked” the audience by asking their opinion on certain topics related to their job.



Ask a geoscientist

La Palma: 17:15 -18:00, Town Cultural Centre, Assembly room;
Participating scientists: Ramón Casillas (ULL), Javier Dóniz (ULL) and Mar Alonso;

Tenerife: 19:15 – 19:45, Plaza de Europa;
Participating scientists: Celestino García de la Noceda (IGME), Darío Orozco (IAC), Pablo González Méndez (University of Leeds), Nemesio Pérez (INVOLCAN), Jesús Rivera (IEO), Francisco García Talavera (MNH);

El Hierro: 19:45 - 20:30, Plaza de Tigaday;
Participating scientists: Juan Jesús Coello (CIAT), Rayco Marrero (LNEG, Portugal), Gladys Melián (INVOLCAN);

Lanzarote: 18:00 – 18:30, Town Cultural Centre Benito Pérez Armas (Main salon);
Participating scientists: Angel Rodríguez (ULPCG), Araceli Munoz (grupo TRAGSA), Carmen Romero (ULL), Fatima Rodríguez (INVOLCAN) and Mauricio Bretón (Univ. Calima, Mexico);

La Gomera: 18:45 – 19:30, Plaza de la Encarnación;
Participating scientists: Germán Padilla (ITER), Juan Carlos Santamarta (ULL), Melchor González Dávila (ULPCG) and Victo Hugo Forjaz (OVGA, Portugal);

Gran Canaria: 19:00 19:30, Playa El Burrero;

Participating scientists: Javier Fullea Urchulategui (DIAS), Luis Somoza (IGME), Mari Sumita (GEMOAR) and Pedro A. Hernández (INVOLCAN);

Fuerteventura: 19:30 – 20:15, Plaza San Miguel;

Participating scientists: Antonio Rodríguez (ULL), Antonio Ramos (ULPCG) and Maria Asensio (INVOLCAN) and carlos ramírez (Universidad de Costa rica);

During these interactive sessions attendees could freely address any question they had in mind to the scientists present (the My Day-speeches provided a solid base for possible questions) and in some cases to a foreign (but Spanish-speaking) scientist connected through Skype. This activity, similarly to past years, proved to be particularly attractive in all islands.

In total, approximately, 5.500 people participated in these two joint activities.

Documentaries and Movie Theatre

La Palma: “Teneguía, el Volcán Amable”: 18:00 – 18:45 (with German subtitles: Teneguía, der freundliche Vulkan) and 18.45 – 19:30 (Teneguía, the Friendly Volcano: with English subtitles) and 19:30 - 20:15(in Spanish) at Restaurante Jardin de la Sal;

Tenerife: “Teneguía, the Friendly Volcano” in Spanish with German subtitles: 18:30 – 19:15, with English subs 19:15 - 20:00; “La erupción perfecta (Etna 2002-2003)”: 20:00 - 20:30 (in Spanish and in Italian); “La erupción del volcán Eyjafjallajokull en el 2010”/ the 2010 eruption of Eyjafjallajokull volcano : 20:30 - 21:00 (in Spanish); “Un pueblo llama Dante’s peak” (in Spanish): 21:45 – 23:45, all at Sala Timanfaya;

Lanzarote: “Teneguía, el Volcán Amable”: 17:30 – 18:15 (in Spanish with English subtitles), 18:15 - 19:00 (in Spanish with German subs), “Geotermia, la energia cercana” (in Spanish): 19:00 - 19:15, 19:30 - 20:00: “La erupción perfecta (Etna 2002-2003)/L'eruzione Petrfetta (in Italian), 20:00 - 22:00: film Supervolcano (in Spanish) all at the Town Cultural Centre Benito Pérez Armas (Sala 2);

La Gomera: “La erupción del volcán Eyjafjallajokull en el 2010”/“The 2010 eruption of Eyjafjallajokull” (in Spanish): 14:00 – 14:30 and “Volcanes Activos de la Macronesia”/ “Macronesian Active Volcanoes”: 21:00 - 22:15;

Gran Canaria: “Teneguía, el Volcán Amable” (in Spanish with English subtitles): 21:15 – 22:00, La erupción del volcán Eyjafjallajokull en el 2010”/“The 2010 eruption of Eyjafjallajokull”: 22:00 - 22:30 (in Spanish) in the Cafetería del Club Náutico El Burrero; “Teneguía, el Volcán Amable” (with German subtitles: Teneguía, der freundliche Vulkan): 21:45 - 22:30 in Bar Muellito;

Fuerteventura: Teneguía, the Friendly Volcano” (in Spanish with English subtitles): 13:15 – 14:00, Salón de Actos de IES Jandia;

Almagro, Ciudad Real: “Pompeya, el último día”/Pompeii: The last Day” (in Spanish with English subs): 17:30 - 18:45 and “Teneguía, el Volcán Amable/Teneguía, the Fiendly Volcano”(in Spanish with English subtitles): 18:15 - 19:30;

Argamasilla, Ciudad Real: "Teneguía, el Volcán Amable/Teneguía, the Fiendly Volcano" (in Spanish with English subtitles): 19:15 - 20:00 and "Al capricho del Volcán" (in Spanish): 20:00 - 20:15;

Piedrabuena, Ciudad Real: Teneguía, el Volcán Amable/Teneguía, the Fiendly Volcano" in Spanish with English subtitles): 17:30 - 19:00;

Valverde, Ciudad Real: "Pompeya, el último día"/Pompeii: The last Day" (in Spanish with English subs): 19:30 - 20:15 and "Teneguía, el Volcán Amable/Teneguía, the Fiendly Volcano" (in Spanish with English subtitles): 20:15 - 21:00;

Olot, Girona: "Teneguía, el Volcán Amable": 18:15 - 19:00 and 19:15 - 20:00;

According to the survey, in 2015 this was the second most visited programme element of the night (for detailed statistics, please read D3). Around 1.100 visitors are estimated to have watched these documentaries in total.

Scientific talks & Science Cafés

As a main scientific attraction, similarly to past years, a series of talks (33 in total) were organised at each event location. These sessions were lead by famous Spanish or invited foreign geoscientists, who explained different natural phenomena and/or presented current research results, meanwhile introducing scientific methods used to investigate them. Prior to the event, speakers had been asked to use plain phrasing and to develop their talk in a way that includes their vision, leaving room for expressing any doubts/struggles etc. related to their work. As an asset, organisers provided a very relaxing atmosphere to these talks (wherever it was possible Science Cafés were located in casual settings such as bars/restaurants etc.), which also emphasised their informal nature, and thus prepared the floor for better communication with the audience. Visitors were encouraged by both the professionals and the local moderators to raise questions . Presentations and/or talks were focussing on the following topics:

La Palma:

Town Cultural Centre

18:00 – 18:45: "The roots/origins of the island of La Palma" held by Ramón Casillas (ULL) and 19:15 – 20:00:"Volcanic Tourism - the example of the island of La Palma" held by Javier Dóniz (ULL/INVOLCAN);

Tenerife

Plaza de Europa (main stage)

20:30 – 21:15: "Construction of an oceanic island: insights from El Hierro 2011-2012 submarine volcanic eruption" held by Jesus Rivera (IEO);

22:00 – 22:45: "Lava tubes in the Canarias" held by Sergio Socorro (Mueso de la naturaleza y el Hombre);

Ébano Café

20:00 – 20:45: “How to leverage the internal heat of volcanoes” held by Celestino Garcia (IGME);

The Moon Tasca Bar

20:30 – 21:15: “What do you desire: tonic or tectonic?” held by Antonio Eff-Darwich (ULL);

Mansion Lounge & Music

21:00 – 21:45: “How much the island of El Hierro has lifted up since 2011? How can we find out the answer from 900 meters height?” held by Pablo J. González (University of Leeds, UK);

Cafetería Bar Dinamico

21:15 - 22:00: “The volcanoes of the Canary Islands from the air” held by Antonio Marquez (helicopter pilot, INVOLCAN collaborator) and 22:00 - 22:45: “Communication & volcanoes” held by David Calvo (INVOLCAN);

Cafetería CIT Puerto de la Cruz

21:30 - 22:15: “Impact craters in Mauritania” held by Francisco Garcia-Talavera (Museo de la naturaleza y el Hombre);

El Hierro:

Plaza de Tigaday

20:45 – 21:15: “El Hierro: an island in construction - an island in demolition” held by Juan Jesus Coello Bravo (Fundación Telesforo Bravo Juan Coello) and 22:00 - 22:30: “The invisible water of the Canary Islands - an inexhaustible resource?” held by Rayco Marrero Díaz (LINEG, Portugal);

Lanzarote:

Town Cultural Centre Benito Pérez Armas (main salon)

18:30 – 19:10: “The turbulence of submarine volcanism” held by Angel Rodríguez (ULPCG), 19:10 – 19:50: “History of Volcanoes” held by Carmen Romero (ULL), 20:20 - 21:00: “The practical application of marine geology in understanding the seabed in the Canary Islands” held by Araceli Munoz (Grupo TRAGSA) and 21:30 - 22:00: “Volcanoes in the Solar system” held by César Piret (Astronomía Lanzarote);

La Gomera:

Plaza de Encarnación (main tent)

21:00 – 21:45: “The Volcano of El Hierro during and after its eruption” held by Melchor González Dávila (ULPCG);

22:15 – 23:00: “Islands, Volcanoes and water” held by Juan Carlos Santamarta (ULL);

Gran Canaria

Playa El Burrero

19:30 – 20:15: “Submarine Volcanoes: the grandmothers and daughters of the Canary Islands” held by Luis Somoza (IGME), 20:45– 21:15: “The Doramas forest” held by Mario

Marrero Arencibia (Grupo Ecologista La Vinca), 21:15– 21:30: "Sharks in the Sea" held by Fernando Frías Reis (Asociación Alianza Tiburones Canarias) and 21:30 - 22:15: the "Touching the pulse of a Volcano" held by Pedro A. Hernandez (INVOLCAN);

Cafetería del Club Náutico El Burrero

19:45 - 20:30: "Why there is a necessitate to know some science nowadays?" held by Roberto Quevedo (INVOLCAN) and 20:30 - 21:15: "Looking at the Earth from Space" held by Javier Fulla Urchulategui, Marie Curie research fellow at DIAS (Dublin Institute for Advanced Studies), Ireland;

Bar El Muellito

20:45 - 21:30: " he volcanic world of the Canary Islands, with particular emphasis on Gran Canaria /Die Vulkanwelt der Kanarischen Inseln, mit besonderer Betonung von Gran Canaria" held in German by Hans-Ulrich Schmincke (GEOMAR, Helmholtz-Zentrum für Ozeanforschung Kiel), Germany.

Fuerteventura

Plaza San Miguel

20:30 – 21:00: "The volcanic origin of the soils of Fuerteventura" held by Antonio Rodríguez (ULL) and 21:30 – 22:00: "Submarine robots. The new frontiers of marine investigation" held by Antonio Ramos (ULPCG);

Almagro, Ciudad Real (Visitors Centre, Almagro)

"El sendero internacional de los palachesy su conexión con la zona volcanica del campo de Calatrava en el centro de Espana"/" The International Appalachian Trail and its connection to the volcanic area of Calatrava situtated in central Spain" held by Ruth Hernandez Paredes (SIA - Sendero Inetrnacional Apalachense) 19:00 - 20:00 and "Almagro, Tierra de Fuego y agua"/"Almagro the Land of Fire and Water" held by Rafael Becerra Ramírez (GEOVOL, UCLM): 20:00 - 21:00;

Argamasilla, Ciudad Real (Town Hall): "Blanca, Las Carboneras y Los Lomillos: la magia del magma y del agua en Argamasilla de Calatrava"/ Blanca, Las Carboneras y Los Lomillos: the magic of the magma and water in Argamasilla de Calatrava" held by Rafael Ubaldo Gosálvez Rey & Álvaro Sánchez Sánchez: 19:00 - 20:00;

Piedrabuena, Ciudad Real (Marín Rordíguez Cultural Centre): "El Hombre y el volcán"/"The Man and the Volcano" held by Estela Escobar Lahoz (GEOVOL): 19:00 - 19:45 and conversation about "Nuestros Volcanes desde nuestra propia experencia"/ Our Voclcanoes form our own expereince" held by Francisco Zamora Soria: 19:45 - 20:30.

Valverde, Ciudad Real (Centro Social Valverde): discussion on "El volcanismo de Ciudad Real y su entorno/The Volcanism of Ciudad Real and its surroundings" heldy by Elena González Cárdenas (GEOVOL, UCLM);

Olot, Girona (Patio de L'Hospici): "Colloquium of volcanologists: Getting to know the latest about volcanology" lead by Llorenc Planaguma, geologist: 20:00 - 21:00.

These core scientific activities were very popular, in total attracted around 800 visitors.

“Volcanologists around the World”

After the success of the first two editions (2013-2014) of the programme “Volcanologists around the World”, organisers collected for the third time video messages pre-recorded by foreign geoscientists during the first semester 2015. Throughout this new 45- minutes long world tour 10 scientists, from 8 different countries greeted the audience of Volcanoes’ Night III and introduced their work to the public (in their own language or in English with subtitles into Spanish). This footage was projected at all islands according to the below schedule:

La Palma:

Town Cultural Centre

20:00 – 20:45, as a closing session of the programme, right after the Science Cafés and just before the LIVE concerts and Star Observation;

Tenerife:

Plaza de Europa

22:45 – 23:15, as a closing session of the programme just before the LIVE concerts;

El Hierro:

Plaza de Tigaday

22:30 – 23:00, right after the scientific talks as a closure;

Lanzarote:

Town Cultural Centre

21:00 – 21:30, as a pause between two scientific talks;

La Gomera:

Plaza de Encarnación (main tent)

23:00 – 23:30, as a closing session of the programme just before the LIVE concerts;

Gran Canaria:

Playa El Burrero

22:15 – 22:45, as a closing session of the programme just before the LIVE concerts;

Fuerteventura:

Plaza San Miguel

22:00 – 22:30, as a closing session of the programme just before the LIVE concerts;

This very entertaining video was watched by about 4.000 visitors (including a significant number of foreign residents and tourists, especially in Tenerife and Fuerteventura, thanks to the English subtitles/original speech).

Exhibition of Scientific Posters

La Palma: 10:00 – 20:45, Town Cultural Centre, small room;

Tenerife: 16:00 – 23:15, Plaza de Europa;

El Hierro: 11:00 – 22:00, Calle Tigaday;

Lanzarote: 11:00 – 22:00, Town Cultural Centre Benito Pérez Armas (Room 1);

La Gomera: 09:45 – 22:15, Espacio Cultural El Convento;

Gran Canaria: 10:00 – 22:00, Club Náutico El Burrero;

Fuerteventura: 11:00 – 22:00, Plaza San Miguel;

In total, 84 scientists contributed to the development of the posters and, depending on the location, 15 to 40 posters (A0 size) were displayed. Posters focused on the findings of (regional, national, European and international) research projects and/or recent scientific topics in an easy to understand manner, as during the previous events. Participants could gain knowledge on the state of the art in geosciences. Most of the participants had, at least a partial look of the posters during the night, meaning about 2.500 persons.



EU Corner

People living on the Canary Islands, an outermost region of Europe, have relatively limited access to knowledge on the European Union. In 2015, two “official” EU Corners were set up, one in El Hierro (17:00 – 20:00, Plaza/Calle Tigaday) and another one in Tenerife (16:00 –

23:15, Plaza de Europa), both were managed by Europe Direct, Las Palmas. These corners had access to Internet and were located at a highly visible place. Besides free European publications (information booklets on education and scholarship possibilities, on mobility of researchers and research & innovation programmes), two persons were continuously available offering first-hand advice and link to several European websites to interested visitors in Spanish and in English (for foreign residents and tourists). Additionally, the European Researchers' Night MSCA roll-up were displayed together with event poster at each venue (at the entrance, or close to stage etc.) and European publications (selected and posted by ED Las Palmas) were also made available as follows:

La Palma: 10:00 – 20:45, Town Cultural Centre, room 2;

Lanzarote: 11:00 – 22:00, Town Cultural Centre Benito Pérez Armas (Room 1);

La Gomera: 10:00 – 23:30, Town Cultural centre at Plaza de la Encarnación;

Gran Canaria: 16:00 – 23:15, Playa El Burrero;

Fuerteventura: 11:00 – 22:00, Plaza de San Miguel;

Furthermore, in El Hierro a short LIVE presentation entitled “Europe, its volcanoes and volcanic parks. What the European Union does?” was held by the local chief of ED Las Palmas, Cristina Santana (20:30 – 20:45: Plaza Tigaday).

In total, 3 Marie Curie fellows gave a speech during the event, they are namely:

- ✓ David Orozco (Tenerife)
- ✓ Javier Fullera (Gran Canaria)
- ✓ Inés Galindo (Gran Canaria)

As a rough estimate, around 1.500 people visited the EU corners, many of which also exchanged ideas with the represented “European contact points”.

Volcanoes for kids

In order to attract the younger generation and facilitate the attendance of families³, similarly to past years, particular corners were set up offering various artistic activities for kids in all islands with the following schedule:

La Palma: 17:00 – 20:00, Town Cultural Centre, small room;

Tenerife: 17:00 – 21:00, Plaza de Europa;

El Hierro: 18:00 – 21:00, Plaza/Calle Tigaday;

La Gomera: 16:00 – 21:00, Plaza Victoriano Darias;

Gran Canaria: 17:00 – 21:00, Playa El Burrero;

Fuerteventura: 18:00 – 22:00, Plaza San Miguel;

The goal of these stands was to let children play and, at the same time, express their view about the surrounding volcanic world via creating works of artistic value (which they were allowed to take home). Around 770 children participated in these specific activities.

³ by providing a possibility for parents to ‘freely’ take part in activities they are interested in.

Furthermore, similarly to past years, as part of the “breaking-up” activities, at the main stage in Puerto de la Cruz (19:45 - 20:30: Plaza de Europa), visitors enjoyed a special performance made by the “Estrellas Theatre School”, which is part of the cultural initiative of the Puerto de la Cruz municipality. They offered a very beautiful display about volcanoes, gathering about 500 people. A similar performance took place in La Gomera, 19:45 - 20:15 (CEO Mario Lhermet Vallier).

Specific activities

Puerto de la Cruz, Tenerife:

LIVE recording of Planeta Vivo Radio Show (number 354) by David Calvo: 16:45 – 17:45, Plaza de la Iglesia de la Pena (www.planetavivoradio.es);

La Frontera, El Hierro:

"Volcanic Gardens" Workshop: 18:00 – 21:00, Plaza/Calle Tigaday;

"Design your own Volcano" - exhibition & sale by Dilma Caldeira: 18:00 – 21:00, Plaza/Calle Tigaday;

La Gomera:

10:00 - 12:00, 24 September 2015, Thursday at CEO Mario Lhermet Vallier: "Educative talk on volcanic risks in the Canary Islands" held by German Padilla (ITER/INVOLCAN).

Side events

In addition to the planned ‘official’ activities (described above), and in an attempt to make the night more colourful, local collaborators initiated various different fun and leisure activities in all islands; some of these took place before or after the ‘official’ programme elements, while some others in parallel to the main schedule at alternative locations. In some cases, these actions also offered a pause between two scientific elements, allowing people and scientists to refresh themselves. The activities were promoted together with the main programme, making Volcanoes’ Night III even more vibrant and an irresistible choice for a Friday-night out.

Telescope Observation

La Palma:

“Volcanoes of the Solar System”: 18:00-20:00, Restaurante La Casa del Volcán, Fuencaliente. Exhibition of meteorites from asteroids, Mars and the Moon, followed by a night observation with the naked eye and telescopes (21:00 - 23:00, San Antonio Volcano Centre) lead by Antonio González, Cielos-LaPalma (in Spanish and in English). After a short introduction on the historical volcanic activities of other planets, attendees "visited" the volcanoes of Mercury, Venus, Mars and some moons (via projections) and also had the chance to see and touch samples of meteorites. This activity attracted around 50 participants.

Lanzarote:

"Explanation of the night sky using high-power laser" & "Planetarium: Volcanic trip through Mars and Venus and the satellites Io and the Moon" lead by César Piret & Gustavo Muler (Astronomía Lanzarote): 22:00 – 22:45 and 17:00 – 21:00, Casa de la Cultura Benito Perez Armas (patio). In Lanzarote, this proved to be one of the most successful activities of the night⁴, by directly attracting around 300 visitors.

Other activities

El Hierro: "Volcanes Llenos de Vida" - presentation: 21:15 – 21:30, Plaza Tigaday by artist Marcos Martín;

Last but not least, Batucadas (La Palma, Fuerteventura)⁵, LIVE Concerts (all islands except El Hierro), Volcanic Zumba (El Hierro), Folkloric Performances (La Palma, Tenerife, El Hierro), Wine Tastings (Tenerife, La Gomera and Gran Canaria), Craft Fairs (El Hierro and Fuerteventura) and Food Tasting (La Palma, El Hierro, Lanzarote, La Gomera, Gran Canaria) made the night an unforgettable experience for all. Furthermore, in La Palma a special volcano-gastro route, while in Tenerife a Volcano-cocktail competition ("Los Volcanes se van de bares"/ Volcanoes go out for a drink") were organised in September to draw attention towards the upcoming event (with the participation of 15-15 restaurants and bars).

In total, 46 researchers participated actively in the implementation of the night.



Gastronomy route and "Volcanoes go out for a drink" in La Palma and in Tenerife.

⁴ 81,82 % of the local survey responders attended.

⁵ LIVE "drum-show" usually performed by local bands.