

**KNOWLEDGE SHARING AND COLLABORATION IN VOLCANIC RISK
MITIGATION AT GALERAS VOLCANO, COLOMBIA
6th to 11th of July 2009**

SCHEDULE

Venue: Luis Santander Auditorium

Monday July 6th

9:00 Register of participants

Chairman: Ing. Michel Bolaños

10:00 OPENING CEREMONY

Dr. Antonio Navarro, Governor Department of Nariño (15 min)

Dr. Eduardo Alvarado, Mayor of Pasto (15 min)

Dr. Silvio Sánchez, Rector Universidad de Nariño (15 min)

Dr. Gustavo Córdoba, Researcher U de Nariño and U at Buffalo (15 min)

11:00 GALERAS VOLCANO CONTEXT

Galeras Historical Activity, Ing. Roberto Torres (30 min)

Galeras Geological aspects, Dra. Marta Calvache (30 min)

Galeras Hazard Maps, Geo. Gloria Patricia Cortés (30 min)

12:30 LUNCH BREAK

14:00 STATE OF GALERAS

Galeras Geophysical aspects, Ing. Lourdes Narvaez (20 min)

Galeras current situation, Ing. Diego Gómez (20 min)

14:40 Potencial Use of Fracture events for eruption forecast: the Galeras case. MSc Pablo Palacios (20 min).

15:00 VOLCANIC CRISIS MANAGEMENT

Regional Emergency System, Dra. Lina Dorado (20 min)

Local Emergency System, Dr. Dario Gómez (20 min)

Red Cross , Dr. Fernando Cárdenas (20 min)

Plan Galeras, Dr. Fabio Calvache (30 min)

16:30 COFFEE BREAK

17:00 PHYSICS AND MODELING OF EXPLOSIVE VOLCANISM

Dynamics of explosive volcanism and related hazards, Dr. Marcus Bursik (20 min)

Pyroclastic flows hazard, Dr. Eliza Calder (20 min)

Lahars, Dr. Gustavo Córdoba (20 min)

18:30 ICE BREAK

Tuesday, July 7th

Chairman: Ing. Ruby Criollo

- 9:00 TRANSFER TO THE NEW VOLCANIC OBSERVATORY
- 9:30 INAUGURATION OF THE NEW OBSERVATORY
- 12:00 RETURN TO THE UNIVERSIDAD DE NARIÑO VENUE
- 12:30 LUNCH
- 14:00 VOLCANIC RISK ASSESSMENT
Concepts of Expert Evaluation, Dr. Willy Aspinall (1 h)
Logic trees, Dr. Thea Hincks (30 min)
The contribution of modelling to volcanic eruptions forecasting.
Dr. Heidy Mader (30 min).
- 16:00 COFFEE BREAK
- 16:30 Different types of hazards maps: geologically based, model based. Fixed Maps, changing maps, probabilistic maps
Dr. Mike Sheridan (30 min)
- 17:00 Titan2D mudflow modeling at the Mijitayo creek. Est. Missti Brown (20 min)
Mudflow hazard at the Barranco creek. Est. Teresita Argoty (20 min)
Modelling Debris flows in the Azufral Valley using Titan2D.
Est. Samantha Engwell (20 min)
- 18:00 Discussion and open input from stakeholders (40 min)
Scientific discussion panel (20 min)

Wednesday, July 8th

Chairman: Dr. Marta Calvache

- 6:00 GALERAS VOLCANO FIELD TRIP
View deposits and visit specific study sites:
1) Bridge over Azufral creek at Consacá town
2) Bridge over Barranco creek on the road to La Florida
3) Mijitayo creek water treatment plant near Pasto
- 20:00 TYPICAL PASTO DINNER FOR VISITORS

Thursday, July 9th

Chairman: MSc. Natalie Ortiz

- 9:30 Structural Damage caused by volcanoes, Dr. Greg Valentine (30 min)
10:00 LEARNING FROM OTHER EXPERIENCES
Crisis management at the Soufriere Hills Volcano, Montserrat. Steve Sparks (30 min)
- 10:30 COFFEE BREAK: Montserrat volcano video, part I
- 11:00 History of the city of and Chaiten volcano (Chile) one year before the eruption. Jose Luis Palma (30 min)
11:30 Volcano monitoring and emergency plan at Vesuvius, Dr. Antonio Costa (30 min)
- 12:00 LUNCH BREAK
- 14:00 Tungurahua and Cotopaxi, Dra. Patricia Mothes (30 min), Andres Gorki (30 min)
15:00 Huila volcano, Geo. Adriana Agudelo (30 min)
15:30 Machín volcano, Geo. Ricardo Mendéz (30 min)
- 16:00 COFFEE BREAK: Montserrat volcano video, part II
- 16:30 Discussion and open input from stakeholders (1 h)
Scientific discussion panel (1 h)
- 19:00 VISITOR'S COLOMBIAN COFFEE TASTING

Friday, July 10th

Chairman: Ing. Hernán Gómez

- 9:00 THE PEOPLE SPEAK
Galeras chair in the educational institution Saint Bartolome in La Florida, Lic. Nestor Muñoz (30 min)
View of the people of La Florida, Mr. Ramon Ramos (30 min)
- 10:00 COFFEE BREAK
View of the people of Mapachico, Mrs Irma Vergara (30 min), Mr. Benjamín Sañudo (30 min)
View of the people of Jenoy, Mr. Aparicio Pasichana (30 min), Mr. Jose Yaqueno (30 min)
- 12:30 LUNCH BREAK

- 14:00 RESEARCH DONE AT THE REGION
Galeras Volcano 1989 - 1995: from panic to an extreme confidence. Prof. Luis Alberto Martinez. (30 min)
Impact of the natural risk on the vicinity of Jenoy. Prof. Angelica Martinez (30 min)
Psyco-social problems in the people living within the ZAVA Prof. Elizabeth Ojeda (30 min)
URCUNINA: Politic desicions and cultural rights. Prof. Dumer Mamián (30 min)
- 16:00 COFFEE BREAK
- 16:30 STUDENTS POSTER SESSION
5 minute presentation by each student.
- 18:00 Scientific meeting
- 20:00 ANDEAN MUSIC DANCE

Saturday, July 11th

Venue: Lago Guamuez

- 9:00 Travel to Guamuez Lake (La Cocha)
- 10:00 **ELICITATION PROCESS**
 Logic tree approach to risk elicitation using the three sites visited and modeled by Missti Brown, Samantha Engwell and Teresita Argoty. Led by W. Aspinall with help of T. Hincks, N. Ortiz, Jacqui Wilmshurst and Jose Luis Palma.
- 12:30 **LUNCH BREAK**
- 14:00 Continue with elicitation
- 16:00 How can we go forward? General discussions with resolution of plans to be followed in the future.
- 18:00 Return to Pasto
- 20:00 **SALSA PARTY**

Sunday, July 12th

- 9:00 Optional trip to Tungurahua Volcano, lahars, pyroclastic flow deposits and hot springs.

Wednesday, July 15th

Return to Quito or Pasto