

The 2008 Collapse Calderas Workshop

"Reconstructing the evolution of collapse calderas: Magma storage, mobilisation and eruption"

October 19th SUNDAY		
15:00	16:00	1st bus to venue @ 3:00 PM
16:00	17:00	Check in
17:00	18:00	2nd bus to venue @ 6:00 PM
18:00	19:00	Registration
19:30	20:00	Opening Ceremony
20:00	22:00	Ice breaker & dinner

October 20th MONDAY		
9:00	10:30	Geology session Keynote talks: DeSilva/Hall/Cobble
10:30	10:50	Coffee
10:50	11:45	Poster short talks
11:45	12:40	Posters
12:40	13:30	Panel discussion
13:30	15:00	Lunch
15:00	16:00	Petrology session keynote talks: Smith/Martí
16:00	16:40	Poster short talks
16:40	17:00	Coffee
17:00	18:00	Collapse case studies session keynote talks: Michon/ Nobuo
18:00	18:30	Poster short talks
18:40	19:30	Posters
19:30	20:00	Panel discussion
20:00	22:00	Dinner

October 21th TUESDAY		
9:00	10:30	Geophysics and Monitoring session Keynote talk: Carniel/ Gottsmann/ Sulpizio
10:30	11:00	Coffee
11:00	12:00	Models session Keynote talk: Gudmundsson/ Geyer
13:30	15:00	Lunch
15:00	15:50	Poster short talks
15:50	16:50	Posters
16:50	17:10	Coffee
17:10	17:50	Panel discussion
17:50	18:10	Coffee
18:10	19:00	Final discussion
19:30	20:00	Intro Field trips Aguirre
20:00	22:00	Dinner

October 22th WEDNESDAY		
9:00	20:00	Field trip Amealco caldera and Huichapan caldera deposits Repetitive collapse in same site Welding variations in Huichapan ignimbrite
20:00	22:00	Dinner

October 23th THURSDAY		
9:00	20:00	Field trip Los Azufres geothermal field Visit to CFE plant Talk of CFE General and Geophysics of the caldera? Is it really a caldera
20:00	22:00	Dinner

October 24th FRIDAY		
9:00	20:00	Field trip Amazcala caldera unusual peralkaline pumice fallouts and obsidian rim Lunch at Freixenet Opal mines visit Free time in Tequisquiapan
20:00	22:00	Farewell Dinner

October 25th SATURDAY	
Departure 1 at 10:30	
Departure 2 at 11:30	

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		October 20th
		MONDAY
9:00	9:30	Geology session Keynote talk: Shan de Silva. Caldera resurgence
9:30	10:00	Geology session Keynote talk: Pete Hall. The Chacana caldera complex in Ecuador
10:00	10:30	Geology session Keynote talk: Matthew Cobble. New geologic evidence for additional 16.5-15.5 Ma silicic calderas in northwest Nevada related to initial impingement of the Yellowstone hot spot
10:30	10:50	Coffee
10:50	11:45	Poster short talks:
10:50	10:57	Aguirre-Diaz, Gerardo. Types of collapse calderas
10:58	11:05	Guzmán, Silvina. Pucarilla-Cerro Tipillas Volcanic Complex: The oldest recognized caldera in the southeastern portion of Central Volcanic Zone of Central Andes?
11:06	11:13	Helo, Christophe. Pyroclastic eruptions from Axial Caldera, Juan de Fuca Ridge, NE Pacific Ocean
11:14	11:21	Hughes, Gwyneth. Location of Silicic Caldera Formation in Arc Settings
11:22	11:29	Moore, Lindsay. Physical volcanology of the mafic segment of the subaqueous New Senator caldera, Abitibi greenstone belt, Quebec, Canada
11:30	11:37	Mothes, Patricia A. Rhyolitic calderas and centers clustered within the active andesitic belt of Ecuador's eastern cordillera
11:38	11:45	Tristán, Margarito. Tectono-volcanic control of fissure type vents for the 28 Ma Panalillo Ignimbrite in the Villa de Reyes graben, San Luis Potosí, México
11:45	12:40	Posters
12:40	13:30	Panel discussion: Shan de Silva, Pete Hall, Gerardo Aguirre, Patty Mothes, Matthew Cobble
13:30	15:00	Lunch
15:00	15:30	Petrology session keynote talk: Vicky Smith. Using quartz and plagioclase to gain insight into chemical and thermal evolution of the Rotoiti magma prior to the caldera-forming eruption ± 55 ka, New Zealand
15:30	16:00	Petrology session keynote talk: Joan Martí. Pre-eruptive conditions of the phonolitic magma from the El Abrigo caldera-forming eruption (Las Cañadas caldera, Tenerife, Canary Islands)
16:00	16:40	Poster short talks:
16:00	16:07	Carrasco, Gerardo. Interpreting compositional zonation of the Zaragoza ignimbrite from Los Humeros caldera, central Mexico
16:08	16:15	González Partida, Eduardo. Hydro-geochemical and isotopic fluid evolution of the Los Azufres caldera geothermal field, central Mexico
16:16	16:23	Martínez Reyes José. Thermodynamic model for the phase equilibria of gases and brines. Example in the H ₂ S-H ₂ O-NaCl system
16:24	16:31	Martínez Reyes José. Thermodynamic state updated of the volcanic caldera and geothermal reservoir of Los Humeros, Puebla, Mexico
16:32	16:40	Sarocchi Damiano. New tools to investigate textures of pyroclastic deposits
16:40	17:00	Coffee
17:00	17:30	Collapse case studies session keynote talk: Laurent Michon. How summit calderas collapse on basaltic volcanoes: new insights from the April 2007 caldera collapse of Piton de la Fournaise volcano.
17:30	18:00	Collapse case studies session keynote talk: Geshi Nobuo. Piston to funnel - successive growth of a collapsed caldera during the Miyakejima 2000 eruption
18:00	18:30	Poster short talks:
18:00	18:07	Nieto-Obregón, Jorge. Geology and structure of the Malpaso caldera and El Ocote ignimbrite, Aguascalientes, Mexico
18:08	18:15	Sruoga, Patricia. Unravelling the collapse mechanisms at a Jurassic caldera of the Chon Aike silicic LIP in Southern Patagonia (47° 15' S, 71° 40' W), Argentina
18:16	18:24	Tucker, Dave. Two-phase, reciprocal, double trapdoor collapse at Hannegan caldera, North Cascades, Washington, USA
18:30	19:30	Posters
19:30	20:00	Panel discussion: Laurent Michon, Geshi Nobuo, Patricia Sruoga, Dave Tucker, Jorge Nieto
20:00	22:00	Dinner

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		October 21th
		TUESDAY
9:00	9:30	Geophysics and Monitoring session Keynote talk: Roberto Carniel. Automatic earthquake detection and classification with Continuous Hidden Markov Models: a possible tool for monitoring Las Cañadas caldera in Tenerife
9:30	10:00	Geophysics and Monitoring session Keynote talk: Jo Gottsmann. Shallow sub-surface structure of the Central Volcanic Complex of Tenerife, Canary Islands: Implications for the evolution and the recent reactivation of the Las Cañadas Caldera
10:00	10:30	Geophysics and Monitoring session Keynote talk: Roberto Sulpizio. The dispersal of ash during explosive eruptions from central volcanoes and calderas: an underestimated hazard for the Central Mediterranean area
10:30	11:00	Coffee
11:00	11:30	Models session Keynote talk: Adelina Geyer. Ground deformation at collapse calderas: Influence of host rock lithology and reservoir multiplicity
11:30	12:00	Models session Keynote talk: Agust Gudmundsson. Material toughness, internal structure, and caldera-collapse frequencies in basaltic and composite edifices
13:30	15:00	Lunch
15:00	15:50	Poster short talks
15:00	15:07	Hautmann, Steffi. Volcano-tectonic interaction at Soufrière Hills Volcano, Montserrat (W.I.), constrained by dynamic gravity data
15:08	15:15	Kinvig, Helen. Influence of subsurface stratigraphy in ring-fault formation and the initiation of caldera collapse
15:16	15:23	Kinvig, Helen. Caldera formation and more, but what comes next? An analysis of volcanic threat of Nisyros island, Greece
15:24	15:31	Holohan, Eoghan. Influences of Magma Chamber Ellipticity on Ring Fracturing and Eruption at Collapse Calderas
15:32	15:39	Sulpizio, Roberto. Generation of pyroclastic density currents from pyroclastic fountaining or transient explosions: insights from large scale experiments
15:40	15:47	Willcox, Chris. How piecemeal is your caldera? - going beyond modelling to investigate the structural evolution of explosive caldera volcanoes
15:50	16:50	Posters
16:50	17:10	Coffee
17:10	17:50	Panel discussion: Adelina Geyer, Roberto Carniel, Jo Gottsmann, Agust Gudmunsson, Roberto Sulpizio
17:50	18:10	Coffee
18:10	19:00	Final discussion: All participants. Conveners: Gerardo Aguirre, Jo Gottsmann, Joan Martí
19:00	19:30	Field trips introduction talk: Gerardo Aguirre
20:00	22:00	Dinner