



## COV4 Meeting Schedule Monday, 23 January, 2006

8H15	<b>Sala 1 (large)†</b>	
	<b>Welcoming Statements</b>	
8H30	<b>Invited Speaker</b>	
	<b>M. Hall:</b> LIVING WITH VOLCANOES	
9H00 - 9H30	<b>Invited Speaker</b>	
	<b>A. Lavell:</b> SOCIETY AND RISK: RISK MANAGEMENT AND VOLCANIC HAZARDS	
9H30 - 10H00	<b>Plenary Symposium IV-B: Monitoring Volcanoes</b>	
	<b>J. EWERT:</b> ASSESSING VOLCANIC THREAT AND PRIORITIZING VOLCANO MONITORING IN THE UNITED STATES	
10H00 - 10H30	<b>Plenary Symposium II: Ash Falls and Aerosols</b>	
	<b>W. Rose:</b> ASH-FALL AND AEROSOLS, AN OVERVIEW	
10H30 - 11H00	<b>Coffee Break</b>	
	<b>Sala 1 (large)</b>	<b>Sala 2 (medium)</b>
	<b>IV-B: Monitoring Volcanoes</b>	<b>II: Ash Falls and Aerosols</b>
	<b>Chairs: J. Ewert, A. García, H. Kumagai &amp; J. Johnson</b>	<b>Chairs: J.-L. Le Pennec, C. Connor, T. Casadevall, D. Johnston &amp; D. Schneider</b>
11H00 - 11H20	<b>S. Carn:</b> MONITORING GLOBAL VOLCANIC DEGASSING WITH OMI	<b>A. Neri:</b> ASSESSING ASH FALL HAZARD FROM WEAK EXPLOSIVE PLUMES
11H20 - 11H40	<b>C. Oppenheimer:</b> NEW DEVELOPMENTS IN VOLCANIC GAS SURVEILLANCE	<b>C. Bonadonna:</b> PROBABILISTIC MODELLING OF TEPHRA DISPERSION
11H40 - 12H00	<b>B. Galle:</b> DEVELOPMENT OF OPTICAL REMOTE SENSING INSTRUMENTS FOR VOLCANOLOGICAL APPLICATIONS	<b>B. Houghton:</b> PROXIMAL TEPHRA HAZARDS: RECENT ERUPTION STUDIES APPLIED TO VOLCANIC RISK IN THE AUCKLAND VOLCANIC FIELD, NEW ZEALAND
12H00-12H20	<b>F. Donnadieu:</b> ERUPTION DYNAMICS OF ARENAL VOLCANO, COSTA RICA: INSIGHTS FROM DOPPLER RADAR AND SEISMIC MEASUREMENTS	<b>P. Baxter:</b> GRAIN SIZE ANALYSIS OF VOLCANIC ASH FOR THE ASSESSMENT OF HEALTH HAZARD
12H20 - 14H00	<b>Lunch in the Centro Cultural Metropolitano- Plaza Grande</b>	
	<b>IV-B: Monitoring-Cont.</b>	<b>II: Ash- Cont.</b>
14H00- 14H20	<b>A. Gerst:</b> REAL-TIME 4D MONITORING OF ERUPTIVE PROCESSES WITH DOPPLER RADARS- A NEW TOOL FOR HAZARDS MITIGATION AND VOLCANO SCIENCE	<b>D. Andronico:</b> ASH EMISSIONS AT THE SUMMIT OF ETNA DURING THE 2004-05 FLANK ERUPTION
14H20-14H40	<b>M. Garces:</b> BICHROMATIC INFRASONIC TREMOR FROM COMPACT SOURCES AT PUU OO, HAWAII	<b>M. Coltelli:</b> ETNA EXPLOSIVE ERUPTIONS AND THE INGV RESPONSE TO IMPROVE AN ASH-CLOUD MONITORING SYSTEM
14H40-15H00	<b>J. Johnson:</b> POOR SCALING BETWEEN ELASTIC ENERGY RELEASE AND ERUPTION INTENSITY FOR STROMBOLIAN AND SMALL VULCANIAN ERUPTIONS	<b>H. Delgado-G.:</b> VOLCANIC PLUMES FROM POPOCATEPETL VOLCANO (MEXICO): DISPERSION FEATURES, ASH CHARACTERISTICS, AND THEIR EFFECTS

15H00 - 15H20	<b>M. Buschmann:</b> VOLCANO OBSERVATION WITH AUTONOMOUS MINI-AEROPLANE "CAROLO"	<b>J.A. Naranjo:</b> THE MAY 4, 2005 EFFUSIVE ERUPTION OF LASCAR VOLCANO
15H20-15H40	<b>R. LaHusen:</b> RAPID DEPLOYMENT OF LOW-COST, SELF-CONTAINED MONITORING STATIONS DURING THE 2004-2005 ERUPTION OF MOUNT ST. HELENS, USA	<b>C. Witham:</b> COMPARISON OF VAAC DISPERSION MODELS USING THE NOVEMBER 2004 GRIMSVÖTN ERUPTION
15H40-16H00	<b>S. McNutt:</b> SEISMIC, WEBCAM AND SATELLITE OBSERVATIONS OF ERUPTIONS AT VENIAMINOF VOLCANO, ALASKA, JANUARY-FEBRUARY 2005	<b>A. Tupper:</b> A GRAPHICAL "THREAT AREA" PRESENTATION FOR VOLCANIC ASH AND INTERNATIONAL AVIATION SAFETY
16H00-16H20	<b>G. Puglisi:</b> VOLCANIC RISK REDUCTION AT MT. ETNA (ITALY) BY USING GEODETIC MONITORING SYSTEMS	<b>S. Barnard:</b> VOLCANIC ASHFALL AND AIRPORTS IN NEW ZEALAND: MITIGATION AND RESPONSE
16H20- 16H40	<b>Y. Kohno:</b> DETECTION OF THE PRESSURE SOURCES BENEATH UNZEN VOLCANO FROM THE GROUND DEFORMATION DATA	<b>V. Neal:</b> IMPACTS OF GAS AND ASH ERUPTIONS ON PASTORAL AND SUBSISTENCE AGRICULTURE
16H40-18H00	<b>Poster Session #1-- LAHARS &amp; ASH (Upper Corridors) MONITORING &amp; HEALTH (Main Patio) w/ Beverages and Snacks§</b>	
18H00	<b>Walking or travel by bus to Iglesia de La Compañía de Jesús</b>	
19H00-20H30	<b>Official Inauguration Ceremony - Iglesia de La Compañía de Jesús</b>	
20H30	Buses begin return to Hotel Quito	

† All Plenary activities will be held in Sala 1

# Coffee break in Foyers

§ Poster sessions in corridors of Patio and Corridors of the 2nd floor (see Poster Section)



Poster Session #1: Monday 23 & Tuesday 24, January,  
2006



## Posters Concerning Poster Sessions 1 & 2:

There will be two poster sessions. The first session occupies the first two days of the week and includes the 4 symposia: I, II, IV-B & VII.

Poster session 2 is scheduled for Thursday and Friday and includes the 5 symposia: III, IV-A, V, VI & VIII.

The poster area will be open and available for viewing for the entire two days allotted for each session.

### **Symposia: I = Lahars; II = Ash; IV-B = Monitoring; VII = Health**

Please place your poster in its designated spot on Monday morning and remove it after this session's closing on Tuesday afternoon at 6 pm.

This assures that your poster will be seen during its two days of continual exposure.

There will be two areas for poster exhibition.

Symposia IV-B (Monitoring) and SVII-Health will exhibit posters on appropriate stands in the corridors of the groundlevel patio (about 125 posters)

Symposia I & II will exhibit posters in the upper corridors of the convent-- the next floor up from the patio; (about 65 posters)

You will be provided with the implements to hang your poster. Under no circumstances can you paste your poster with tape to the convent wall!!

Please be respectful of the artwork hanging on the convent walls.

You are encouraged to remain beside your poster for the first hour of each respective session-- for question/answer and discussion--

during the two designated poster times, Monday and Tuesday afternoons, respectively.

Please remember, if possible, to provide small paper copies of your poster for hand-outs.

Enjoy the poster sessions!!

## Symposium I- Lahars and Debris Flows- Monday and Tuesday--Upper Level (Above Main Patio) Corridors of the Convent

Poster code	POSTER TITLE	First Author	Presenter
SI-01-P	PREDICTING DEBRIS FLOW ENDANGERED AREAS BY A STOCHASTIC APPROACH	M. FAVALLI	M. FAVALLI
SI-02-P	SOME EXPERIENCES IN THE USE OF RAINFALL THRESHOLD FOR PREDICTING LANDSLIDES, EL SALVADOR	M. DIAZ-FLORES	M. DIAZ-FLORES
SI-03-P	THE INFLUENCE OF BULKING AND DEBULKING ON THE PROPAGATION AND PROPERTIES OF LAHARS	S. FAGENTS	S. FAGENTS
SI-04-P	VOLCANOGENIC FLOODS FROM INTRACALDERA LAKE BASINS: GEOMORPHIC SIGNALS, IMPACTS, AND HAZARDS	V. MANVILLE	V. MANVILLE
SI-05-P	MAPPING THE RECOVERY OF A LAHAR-BURIED TOWN	K. CRITTENDON	K. CRITTENDON
SI-06-P	DEBRIS FLOW HAZARDS AT TWO RECENTLY ERUPTED VOLCANOES IN JAPAN	T. YAMAKOSHI	T. YAMAKOSHI
SI-07-P	FACIES ASSOCIATION AND GEOLOGICAL EVOLUTION OF THE VOLCANICLASTIC APRON OF SOMMA-VESUVIUS VOLCANO, ITALY	R. SULPIZIO	R. SULPIZIO
SI-08-P	ALBANO CRATER LAKE (ROMA): NEW DATA OF RECENT LAHAR AND EXPLOSIVE ACTIVITY	R. FUNICELLO	R. FUNICELLO
SI-09-P	SMALL SCALE DEBRIS FLOW EVENTS ASSOCIATED TO HEAVY RAIN FALLS ON THE SOUTHERN FLANK OF CITLALTÉPETL VOLCANO, MEXICO	S. RODRIGUEZ	S. RODRIGUEZ
SI-10-P	EVOLUTION PROCESSES AND CURRENT LAHAR HAZARDS AT VOLCÁN DE COLIMA, MÉXICO	J. GAVILANES-RUIZ	J. GAVILANES-RUIZ
SI-11-P	IMPACT OF INDIVIDUAL ERUPTIONS ON ICE MASS: POPOCATÉPETL A CASE OF STUDY	P. JULIO-MIRANDA	P. JULIO-MIRANDA
SI-12-P	DEBRIS FLOW HAZARDS IN THE RÍO REVENTADO WATERSHED AND THE CITY OF CARTAGO, SW FLANK OF VOLCÁN IRAZÚ, COSTA RICA	A. STINTON	A. STINTON
SI-13-P	THE FREQUENT LAHARS THREATS TO COMMUNITIES AROUND RINCÓN DE LA VIEJA VOLCANO, COSTA RICA.	E. FERNANDEZ	E. FERNANDEZ
SI-14-P	CERRO MACHÍN VOLCANO LAHARS, A RISK FOR THE CENTRAL PART OF COLOMBIA	H. MURCIA	H. MURCIA
SI-15-P	COMPARISON OF THE LAHAR DEPOSITS OF THE ERUPTION OF NEVADO DEL RUIZ VOLCANO ON 13TH OF NOVEMBER, 1985 AND THE PRE-HISTORIC ERUPTIONS OF CERRO MACHÍN VOLCANO IN THE CENTRAL ZONE OF COLOMBIA	G. CORTES	G. CORTES
SI-16-P	QUANTIFICATION OF SOME LAHAR FLOW-PARAMETERS BASED ON ACOUSTIC FLOW MONITOR RECORDS IN THE VOLCANOES OF ECUADOR.	D. ANDRADE	D. ANDRADE
SI-17-P	HISTORICAL ANALYSIS AND STRATIGRAPHY OF THE POST-1534 AD PYROCLASTIC ACTIVITY AT COTOPAXI VOLCANO, ECUADOR: IMPLICATIONS FOR LAHAR HAZARD ASSESSMENT.	A. ROSSOTTI	A. ROSSOTTI
SI-18-P	1877 LAHAR DEPOSITS ON THE EASTERN FLANK OF COTOPAXI VOLCANO, ECUADOR : SEDIMENTOLOGIC CHARACTERISTICS AND IMPLICATIONS IN TERMS OF RISKS	S. ETTINGER	S. ETTINGER
SI-19-P	RECENT EVOLUTION OVER THE ICE CAP OF THE COTOPAXI VOLCANO USING DIGITAL PHOTOGRAMETRIC	B. CACERES	B. CACERES
SI-20-P	MODELING LAHARS USING TITAN2D FOR THE SOUTHERN DRAINAGE OF VOLCÁN COTOPAXI: IMPACT ON THE CITY OF LATACUNGA.	R. WILLIAMS	R. WILLIAMS
SI-21-P	MODELACION NUMERICA DE LOS LAHARES EN EL FLANCO NORTE DEL VOLCAN COTOPAXI, ECUADOR	R. GALARRAGA	M. CASTRO
SI-22-P	PARTIAL COLLAPSE OF THE CHIMBORAZO VOLCANO AS A TYPICAL POTENTIAL THREAT OF LARGE ECUADORIAN STRATOVOLCANOES	B. BERNARD	B. BERNARD
SI-23-P	SEDIMENTOLOGY, STRATIGRAPHY, AND DISTRIBUTION, OF EXTENSIVE, CA. 2 KA LAHAR DEPOSITS FROM MISTI VOLCANO, SOUTHERN PERÚ	C. HARPEL	C. HARPEL

SI-24-P	ASSESSMENT OF VOLCANIC HAZARDS OF EL MISTI AND RELATED RISKS IN THE CITY OF AREQUIPA, SOUTHERN PERU	J-C. THOURET	M. SHERIDAN
SI-25-P	LAHARS IN AND AROUND THE TAIPEI BASIN AND THEIR IMPLICATIONS	S. SONG	S. SONG
SI-26-P	DETERMINATION OF THE ICE-CAP VOLUME OF COTOPAXI VOLCANO (ECUADOR)	J. RAMIREZ	B. CACERES
SI-27-P	DEVASTATING MUDFLOWS FROM CARIHUAIRAZO VOLCANO TRIGGERED BY THE 22 JUNE 1698 EARTHQUAKES	R. VASCONEZ	R. VASCONEZ
SI-28-P	ANALISIS DE LA VULNERABILIDAD EN LA INFRAESTRUCTURA DE LA EMAAP-Q EN LAS ZONAS DE TRANSITO DE LAHARES DEL VOLCAN COTOPAXI	R. GALARRAGA	R. GALARRAGA

## Symposium II- Ash Falls and Aerosols--Upper Level (Above Main Patio) Corridors of the Convent

Poster Code	POSTER TITLE	First Author	Presenter
SII-1-P	WESTWARD DISPERSION OF TEPHRA IN NORTHERN CHILE: INSIGHTS FROM A 3-D TRANSPORT MODEL	A. AMIGO	A. AMIGO
SII-2-P	A SEMI-AUTOMATIC ASH COLLECTOR	D. ANDRONICO	D. ANDRONICO
SII-3-P	MONITORING THE ASH AND FINE LAPILLI FALLOUT AT MT. ETNA	D. ANDRONICO	D. ANDRONICO
SII-4-P	AGRICULTURAL VULNERABILITY BEFORE ASH FALL OF THE GALERAS VOLCANO	R. CARDENAS	R. TORRES
SII-5-P	PROBABILISTIC FORECASTS OF TEPHRA DISPERSION: APPLICATION IN ECUADOR	L. CONNOR	L. CONNOR
SII-6-P	CHARACTERISTICS AND EFFECTS OF ASHES EMITTED DURING THE SECOND HALF OF 2004 BY GALERAS VOLCANO	R. TORRES	G. P. CORTES
SII-7-P	ASH, SO <sub>2</sub> , AND AEROSOL ANALYSIS OF THE NOVEMBER 2002 ERUPTION OF REVENTADOR VOLCANO, ECUADOR USING TOMS, HIRS, AND MODIS SATELLITE SENSORS	M. DALTON	M. DALTON
SII-8-P	MONITORING OF ASH FROM VOLCANIC ERUPTIONS IN QUITO - ECUADOR	V. DIAZ	V. DIAZ
SII-9-P	VOLCANIC ASH FROM IRAZU VOLCANO, COSTA RICA: 1963-1965	E. DUARTE	E. DUARTE
SII-10-P	MODELO DE DISTRIBUCION DE LA CAIDA DE CENIZA DEL VOLCAN TUNGURAHUA, PARA EL MANEJO DE EMERGENCIAS	F.S. ENRIQUEZ	F.S. ENRIQUEZ
SII-11-P	ACTIVE VOLCANOES ON KAMCHATKA	E. GORDEEV	E. GORDEEV
SII-12-P	STUDY OF PLUME DISPERSION FROM WHITE ISLAND VOLCANO, NEW ZEALAND	U. GRUNEWALD	U. GRUNEWALD
SII-13-P	ANALYSIS OF SOIL AFFECTED BY ASH FALL FROM TUNGURAHUA VOLCANO AND ITS INFLUENCE ON AGRICULTURAL PRODUCTION	A. GUEVARA	A. GUEVARA
SII-14-P	PRACTICAL ASH-HAZARD INFORMATION FOR THE AVIATION SECTOR: EXAMPLES FROM THE 2003-2005 ERUPTIVE ACTIVITY OF ANATAHAN, NORTHERN MARIANA ISLANDS	M. GUFFANTI	M. GUFFANTI
SII-15-P	THE NEXT MAJOR VOLCANIC ERUPTION: DEPLETION OF THE OZONE LAYER	D. HOFMANN	D. HOFMANN
SII-16-P	PROXIMAL TEPHRA HAZARDS: RECENT ERUPTION STUDIES APPLIED TO VOLCANIC RISK IN THE AUCKLAND VOLCANIC FIELD, NEW ZEALAND	B. HOUGHTON	B. HOUGHTON
SII-17-P	MODELLING CONTAMINATION OF WATER SUPPLIES BY VOLCANIC ASH FALL IN AUCKLAND, NEW ZEALAND	C. STEWART	D. JOHNSTON
SII-18-P	IMPROVED RESOLUTION OF TEPHRA FALLOUT DEPOSITS WITH GROUND PENETRATING RADAR	S. KRUSE	S. KRUSE
SII-19-P	CHARACTERISTICS AND IMPACTS OF RECENT ASH FALLS PRODUCED BY TUNGURAHUA AND EL REVENTADOR VOLCANOES, ECUADOR	J-L. LE PENNEC	J-L. LE PENNEC
SII-20-P	MEASURED TEPHRA PARTICLE SETTLING VELOCITIES: EXAMPLES FROM CERRO NEGRO VOLCANO, NICARAGUA	K. MARTIN	K. MARTIN
SII-21-P	TOWARDS IMPROVING ASH MONITORING; COMBINING AND COMPARING IR SATELLITE DATA AND FORWARD TRAJECTORY MODELS	M.A. MATIELLA NOVAK	M.A. MATIELLA NOVAK
SII-22-P	IMPACTS OF THE 1991 HUDSON ERUPTION ON THE PATAGONIAN AIR NAVIGATION	A. HAUSER	J. NARANJO
SII-23-P	NUCLEATION OF PARTICLES ON SINGLE GLASS FIBERS, METAL TRANSPORT WITHIN PARTICLES - A CASE STUDY AT A FUMAROLE OF LA FOSSA VOLCANO, VULCANO ISLAND, ITALY	J. OBENHOLZNER	J. OBENHOLZNER

SII-24-P	ROMERAL VOLCANO: A NEW SOURCE OF PYROCLASTIC FALL DEPOSITS AT THE RUIZ – TOLIMA VOLCANIC COMPLEX, CENTRAL COLOMBIA.	PINILLA A.	BORRERO C. A.
SII-25-P	THE INTERNATIONAL AIRWAYS VOLCANO WATCH (IAVW)	R. ROMERO	R. ROMERO
SII-26-P	PYROCLASTIC FALL DEPOSIT FROM THE OCTOBER 14, 1974, ERUPTION OF FUEGO, GUATEMALA	W. ROSE	W. ROSE
SII-27-P	GAS EMISSIONS AND PLUME MONITORING OF ECUADORIAN VOLCANOES	A.G. RUIZ	A.G. RUIZ
SII-28-P	INDIRECT ESTIMATION OF ASH FALL VOLUME DEPOSITED NEAR TUNGURAHUA VOLCANO (ECUADOR) FROM OCT. 1999 TO DEC. 2004	A.G. RUIZ	A.G. RUIZ
SII-29-P	PROBABILISTIC TEPHRA FALL-HAZARD ASSESSMENT AT ETNA VOLCANO, ITALY	S. SCOLLO	S. SCOLLO
SII-30-P	THE ASH DISPERSION FROM EXPLOSIVE ACTIVITY OF SOMMA-VESUVIUS VOLCANO (SOUTHERN ITALY): GEOLOGICAL DATA AS A GUIDE FOR HAZARD MITIGATION	M.A. DI VITO	R. SULPIZIO
SII-31-P	EASTWARD DISPERSAL OF KILAUEA TEPHRA IMPLIES COLUMN HEIGHTS HAZARDOUS TO AIRCRAFT	D. SWANSON	D. SWANSON
SII-32-P	FACING THE CHALLENGES OF THE INTERNATIONAL AIRWAYS VOLCANO WATCH: THE 2004/05 ERUPTIONS OF MANAM, PAPUA NEW GUINEA	A. TUPPER	A. TUPPER
SII-33-P	RECENT STUDIES AT LASCAR VOLCANO, CHILE: A MULTIDISCIPLINARY MONITORING EFFORT TO UNDERSTAND ERUPTIVE PATTERNS AND PRODUCTS	J. VIRAMONTE	J. VIRAMONTE
SII-33-P	TOTAL GRAIN-SIZE DISTRIBUTION AND VOLUME OF THE 2450 BP PULULAGUA PLINIAN ERUPTION	A. VOLENTIK	A. VOLENTIK
SII-35-P	DISPERSION AND DEPOSITION OF THE 2002 ETNA ERUPTION PLUME MODELLED WITH NAME	C. WITHAM	C. WITHAM

## Symposium IV-B -Monitoring Volcanoes--Ground-Level (Main Patio) Corridors of the Convent

No	Poster code	POSTER TITLE	First Author	Presenter
298	SIVB-001-P	ANALYSIS OF SEISMIC ACTIVITY IN THE POPOCATEPETL VOLCANO DURING THE PERIOD 1994-1999	Y. ANTAYHUA	Y. ANTAYHUA
311	SIVB-002-P	STATE OF STRESS BASED ON VT EVENTS IN 9 YEARS OF ACTIVITY AT POPOCATEPETL VOLCANO, MEXICO	R. ARÁMBULA	R. ARÁMBULA
315	SIVB-003-P	TURRIALBA VOLCANO, COSTA RICA: ACCOUNT OF ITS MOST RECENT CHANGES IN ACTIVITY.	V. BARBOZA	V. BARBOZA
218	SIVB-004-P	SEISMIC MONITORING IN COSTA RICA'S ACTIVE VOLCANOES: RINCON DE LA VIEJA, ARENAL, POAS, IRAZU AND TURRIALBA.	V. BARBOZA	V. BARBOZA
212	SIVB-005-P	UNUSUAL SEISMIC ACTIVITY OF THE VOLCANO VILLARRICA 2004-2005	D. BASUALTO	D. BASUALTO
70	SIVB-006-P	CHANGING SEISMICITY AS A MEDIUM-TERM PRECURSOR TO BASALTIC ERUPTIONS	A. BELL	A. BELL
55	SIVB-007-P	INTERMITTENCY IN VOLCANIC EARTHQUAKE OCCURRENCE: THE CASE STUDY OF STROMBOLI	M. BOTTIGLIERI	C. GODANO
98	SIVB-008-P	SPECTRAL ANALYSIS OF LONG PERIOD EVENTS USING NON-LINEAR OPTIMIZATION: THE "ZOMBIE" METHOD	L. DAURIA	L. DAURIA
99	SIVB-009-P	A 3D SEISMIC VELOCITY MODEL FOR THE NEAPOLITAN AREA	L. DAURIA	L. DAURIA
290	SIVB-010-P	ASH ERUPTIONS AND LOW-FREQUENCY EARTHQUAKE ACTIVITY AT MT. VENIAMINOF, ALASKA, DURING JANUARY-FEBRUARY 2005	S. DE ANGELIS	S. DE ANGELIS
292	SIVB-011-P	SPECTRAL ANALYSES OF LONG PERIOD EARTHQUAKES WITH EXTENDED CODA RECORDED AT MT. SPURR, ALASKA, BY USE OF THE SOMPI METHOD.	S. DE ANGELIS	S. DE ANGELIS
109	SIVB-012-P	PRECURSORY SEISMICITY OF THE 1994 ERUPTION OF POPOCATEPETL VOLCANO, CENTRAL MEXICO	S. DE LA CRUZ-REYNA	S. DE LA CRUZ-REYNA
73	SIVB-013-P	UNSUPERVISED NEURAL CLASSIFICATION OF SEISMIC EVENTS FOR VOLCANO MONITORING	M.A. ESPOSITO	M.A. ESPOSITO
219	SIVB-014-P	INGEOMINAS VOLCANO AND SEISMOLOGICAL OBSERVATORIES NATIONAL NETWORK OF COLOMBIA	F. GIL-CRUZ	F. GIL-CRUZ
74	SIVB-015-P	DISCRIMINATION AMONG LANDSLIDE, EXPLOSION-QUAKE AND VOLCANIC MICROTREMOR SEISMIC SIGNALS AT STROMBOLI VOLCANO	F. GIUDICEPIETRO	F. GIUDICEPIETRO
125	SIVB-016-P	STROMBOLI ISLAND (ITALY): INSIGHTS OF VOLCANIC DYNAMICS FROM 3 YEARS OF SEISMOLOGICAL OBSERVATIONS	F. GIUDICEPIETRO	F. GIUDICEPIETRO
333	SIVB-017-P	ERUPTIVE ACTIVITY AT GALERAS VOLCANO FROM JUNE 27, 2004 TO AUGUST 29, 2005	D. GOMEZ	D. GOMEZ
329	SIVB-018-P	UPDATE OF THE GLOBAL VOLCANIC EARTHQUAKE SWARM DATABASE: SEARCH FOR ERUPTION FORECASTING POSSIBILITIES	K.M. JACOBS	K.M. JACOBS
324	SIVB-019-P	QUANTITATIVE ANALYSIS OF LONG-PERIOD AND VERY-LONG-PERIOD EVENTS FOR IMPROVED MONITORING OF ACTIVE VOLCANOES	H. KUMAGAI	H. KUMAGAI
183	SIVB-020-P	TEMPORAL CHANGES IN SEISMIC WAVES ATTENUATION AS A TOOL OF FORECASTING VOLCANIC ACTIVITY AT NEVADO DEL RUIZ VOLCANO, COLOMBIA	J.M. LONDOÑO	J.M. LONDOÑO
184	SIVB-021-P	SOME SEISMIC PATTERNS OCCURRING PREVIOUSLY TO VOLCANIC CRISES AT NEVADO DEL RUIZ VOLCANO, COLOMBIA	J.M. LONDOÑO	J.M. LONDOÑO
291	SIVB-022-P	MISTI VOLCANO-SEISMIC MONITORING NETWORK	O. MACEDO	O. MACEDO
244	SIVB-023-P	SOURCE SCALING OF VOLCANIC EARTHQUAKES AT MOUNT ST. HELENS	S.D. MALONE	S.D. MALONE



124	SIVB-024-P	SEISMIC MONITORING OF VOLCANOES: REAL-TIME IMPLEMENTATIONS AT OSSERVATORIO VESUVIANO – INGV (ITALY)	M. MARTINI	M. MARTINI
123	SIVB-025-P	MOUNT ETNA ERUPTIONS AND DAMAGING EARTHQUAKES: NEW INSIGHTS FROM RECENT BROAD BAND DATA	G. MILANA	G. MILANA
394	SIVB-026-P	PRECISE HYPOCENTER LOCATION OF HIGH-FREQUENCY-ONSET EARTHQUAKES AND CHANGING STRESS CONDITIONS BENEATH SOUFRIÈRE HILLS VOLCANO, MONTSERRAT	V. MILLER	V. MILLER
490	SIVB-027-P	SOURCE PROCESS OF VERY-LONG-PERIOD EVENTS ACCOMPANYING LONG-PERIOD SIGNALS AT COTOPAXI VOLCANO, ECUADOR	I. MOLINA	I. MOLINA
191	SIVB-028-P	SEISMIC SIGNALS OF THE 2005 EXPLOSIVE EVENTS AT VOLCÁN DE FUEGO, MÉXICO.	F. NUÑEZ-CORNU	F. NUÑEZ-CORNU
350	SIVB-029-P	SEISMIC AND DEFORMATION SIGNIFICANCES DEDUCED FROM COMPARATIVE STUDY OF RECENT FOUR DOME BUILDING ACTIVITIES OF MT. USU, JAPAN	J. OKADA	J. OKADA
116	SIVB-030-P	POTENTIAL USE OF VOLCANO - TECTONIC EVENTS TO FORECAST ERUPTIONS	P. PALACIOS	P. PALACIOS
48	SIVB-031-P	SEISMO-ACOUSTIC SIGNALS ASSOCIATED WITH DEGASSING EXPLOSIONS RECORDED AT SHISHALDIN VOLCANO, ALEUTIAN ISLANDS, ALASKA	T. PETERSEN	T. PETERSEN
117	SIVB-032-P	OBSERVATIONS OF DEEP LONG-PERIOD (DLP) SEISMIC EVENTS BENEATH ALEUTIAN ARC VOLCANOES; 1989-2005	J.A. POWER	J.A. POWER
240	SIVB-033-P	TREMOR SOURCE DEFINITION AT OKMOK VOLCANO, ALASKA	C.G. REYES	C.G. REYES
473	SIVB-034-P	SCANNING DETECTION FOR AUTOMATIC IDENTIFICATION OF VOLCANIC SEISMIC EVENTS: A COMPARISON OF DENOISING AND CLASSIFICATION METHODS	C. ROWE	C. ROWE
456	SIVB-035-P	EVOLUTION OF THE ACTIVITY OF EL REVENTADOR VOLCANO DURING ITS CURRENT ERUPTIVE PHASE (2004-2005)	L. TRONCOSO	L. TRONCOSO
533	SIVB-036-P	SEISMIC CRISES AT COTOPAXI VOLCANO AND THEIR POSSIBLE RELATIONSHIP WITH TECTONIC ACTIVITY WITHIN NEIGHBOR ZONES	L. TRONCOSO	L. TRONCOSO
352	SIVB-037-P	CONTINUOUS MONITORING OF MOUNT FUJI BY SEISMIC AND GROUND TILT OBSERVATION NETWORK	M. UKAWA	M. UKAWA
263	SIVB-038-P	PIONEER SEISMIC NETWORK INSTALLED ON AN ANATOLIAN VOLCANO: MT. NEMRUT (EASTERN TURKEY)	I. ULUSOY	I. ULUSOY
348	SIVB-039-P	SEISMICITY OF CHICHÓN VOLCANO, CHIAPAS, MEXICO, FROM MAY 2003 TO MARCH 2005.	C. VALDÉS-GONZÁLEZ	C. VALDÉS-GONZÁLEZ
344	SIVB-040-P	SPATIAL DISTRIBUTION OF CODA Q IN THE CERRO MACHÍN VOLCANO (COLOMBIA)	C.A. VARGAS JIMÉNEZ	C.A. VARGAS JIMÉNEZ
433	SIVB-041-P	TIME-SCALE WAVELET ANALYSIS RELATED TO THE 1998-2005 ERUPTIONS OF THE COLIMA VOLCANO, MEXICO	D.M. VARGAS-BRACAMONTES	D.M. VARGAS-BRACAMONTES
88	SIVB-042-P	SEISMIC QUANTIFICATION OF THE EXPLOSIONS AT VOLCAN DE COLIMA, MEXICO	V.M. ZOBIN	V.M. ZOBIN
528	SIVB-043-P	VOLCANO MONITORING BY INSAR IMAGERY -- A BASIC PRE-ERUPTION TOOL	J. AGUILAR	J. AGUILAR
54	SIVB-044-P	COMPOSITE GROUND DEFORMATION PATTERN FORERUNNING THE 2004-05 MT. ETNA ERUPTION	A. BONACCORSO	A. BONACCORSO
362	SIVB-045-P	SLOPE INSTABILITY MONITORING AT THE PITON DES NEIGES VOLCANO(REUNION ISLAND, INDIAN OCEAN)	M. CRUCHET	P. NEHLIG
253	SIVB-046-P	PRESENT DAY DEFORMATIONS OF THE PANAREA VOLCANIC COMPLEX (AEOLIAN ISLAND, ITALY) FROM GPS DATA	A. ESPOSITO	A. ESPOSITO
436	SIVB-047-P	DEFORMATION MONITORING AT POPOCATÉPETL VOLCANO (FEBRUARY 2001 - JULY 2002)	A. GOMEZ	A. GOMEZ
192	SIVB-048-P	HIGH-FREQUENCY SAMPLING FROM SHALLOW BOREHOLE TILTMETERS FILLS THE GAP IN VOLCANO MONITORING BETWEEN BROADBAND SEISMOMETERS AND CONTINUOUS GPS	R. KRUG	R. KRUG

521	SIVB-049-P	NEW GPS INSTRUMENTATION ON COTOPAXI VOLCANO	P. LAFEMINA	P. LAFEMINA
451	SIVB-050-P	DEFORMATION MEASUREMENTS USING GPS ON THE RESURGENT YENKAHE BLOCK ASSOCIATED WITH ACTIVITY OF YASUR (VANUATU)	M. LARDY	H. GAUDRU
463	SIVB-051-P	DESIGN OF A TELEMETERED DEFORMATION MONITORING SYSTEM AT CAYAMBE VOLCANO	O. MARCILLO	O. MARCILLO
214	SIVB-052-P	TWENTY YEARS (1985-2005) OF GEODETIC MEASUREMENTS ON THE NEVADO DEL RUIZ VOLCANO: ADVANCES IN THE SCIENCE FOR THE PROTECTION OF THE COMMUNITY	H. MORA-PÁEZ	H. MORA-PÁEZ
349	SIVB-053-P	VOLCANIC DEFORMATION ANALYSIS OF MT. USU, JAPAN BASED ON THE COMPARISON OF PRECISE DEM	J. OKADA	J. OKADA
222	SIVB-054-P	DEFORMATION MEASUREMENTS AT GALERAS VOLCANO, COLOMBIA: 15 YEARS OF PERMANENT MONITORING: 1989-2004	M. ORDOÑEZ	M. ORDOÑEZ
325	SIVB-055-P	DEFORMATION MONITORING OF THE VOLCAN DE FUEGO DE COLIMA, MEXICO DURING THE ERUPTIVE PHASE OF 1998-2005 ACTIVITY	J.J. RAMIREZ RUIZ	J.J. RAMIREZ RUIZ
140	SIVB-056-P	INSAR AS A VOLCANO MONITORING TOOL FOR AUCKLAND CITY, NEW ZEALAND.	N.F. STEVENS	C.A. MILLER
10	SIVB-057-P	AUTOMATED DATA PROCESSING OF VOLCANIC SO <sub>2</sub> FLUXES APPLIED AT TUNGURAHUA VOLCANO, ECUADOR	S. ARELLANO	S. ARELLANO
106	SIVB-058-P	BORON IN GROUNDWATER: A PRECURSOR TO LAVA DOME EMPLACEMENT AT POPOCATÉPETL AND COLIMA VOLCANOES, MÉXICO	M.A. ARMIENTA	M.A. ARMIENTA
390	SIVB-059-P	NEW UNREST EPISODE AT LA FOSSA CRATER (VULCANO ISLAND, SOUTHERN ITALY)	R. AVINO	M.L. CARAPEZZA
378	SIVB-060-P	EXTREME RATES OF SULPHUR AND HALOGEN DEGASSING FROM AMBRYM VOLCANO, VANUATU	P. BANI	P. BANI
181	SIVB-061-P	EXCEPTIONAL SULFUR DIOXIDE EMISSIONS FROM NYAMURAGIRA VOLCANO	G.J.S. BLUTH	G.J.S. BLUTH
560	SIVB-062-P	REMOTE SENSING FOR VOLCANIC HAZARD MITIGATION IN ECUADOR, EL SALVADOR, GUATEMALA AND NICARAGUA	G.J.S. BLUTH	G.J.S. BLUTH
62	SIVB-063-P	MONOGENIC AND POLYGENIC ECCENTRIC CONES FROM NYIRAGONGO VOLCANO (GOMA, DEMOCRATIC REPUBLIC OF CONGO): A GEOCHEMICAL STUDY	B. CAPACCIONI	A.P. SANTO
136	SIVB-064-P	GEOCHEMICAL SURVEY OF HOT SPRINGS AROUND UBINAS, THE MOST HISTORICAL ACTIVE VOLCANO IN SOUTHERN PERU	V. CRUZ	V. CRUZ
274	SIVB-065-P	GALERAS VOLCANO, COLOMBIA – OBSERVATIONS WITH A GAS MONITORING SYSTEM	E. FABER	E. FABER
114	SIVB-066-P	NOVAC - NETWORK FOR OBSERVATION OF VOLCANIC AND ATMOSPHERIC CHANGE	B. GALLE	B. GALLE
400	SIVB-067-P	AN EVALUATION OF GALAPAGOS ISLANDS VOLCANIC ACTIVITY 1979-1998	E.M. HEAD	E.M. HEAD
466	SIVB-068-P	SEISMO-ACOUSTIC STUDY OF MOUNT SAINT HELENS	M. HEDLIN	M. HEDLIN
465	SIVB-069-P	ANALYSIS BY MEANS OF MARKOV MATRIZ OF THE SEISMIC ACTIVITY IN AN ACTIVE CALDERA: APPLICATION TO THE SEISMIC CRISIS OF TENERIFE 2004	J.M. MARRERO LLINARES	J.M. MARRERO LLINARES
421	SIVB-070-P	DEGASSING AND ACTIVITY OF VILLARRICA VOLCANO (CHILE)	J.L. PALMA	J.L. PALMA
447	SIVB-071-P	INTEGRATED MONITORING SYSTEM OF POPOCATEPETL VOLCANO: TECHNIQUES AND PROCEDURES	R. QUAAS	R. QUAAS
316	SIVB-072-P	A SUMMARY OF ACTIVITY AND SURVEILLANCE OF PURACE, NEVADO DEL HUILA AND SOTARA VOLCANOES (CAUCA, COLOMBIA)	J. RAIGOSA	J. RAIGOSA
104	SIVB-073-P	UNDERSTANDING ERUPTIVE BEHAVIOR BY COUPLING SO <sub>2</sub> EMISSION AND SEISMICITY DATA AT POPOCATÉPETL VOLCANO (MEXICO)	C. RIVERA	C. RIVERA
208	SIVB-074-P	DETERMINING SUBPIXEL THERMAL ANOMALIES AND HEAT FLUX OF CERRO NEGRO VOLCANO, NICARAGUA: A TIR DECONVOLUTION APPROACH	S. ROSE	S. ROSE
205	SIVB-075-P	COMPOSITION, FLUX AND FATE OF THE NYIRAGONGO VOLCANIC PLUME	G.M. SAWYER	G.M. SAWYER

371	SIVB-076-P	DEVELOPMENT OF A UV IMAGING SYSTEM FOR THE RAPID DETECTION AND QUANTIFICATION OF VOLCANOGENIC SO <sub>2</sub>	J.M. SHANNON	I.M. WATSON
156	SIVB-077-P	THE OMETEPE ISLAND, NICARAGUA: NEW GEOCHEMICAL DATA FROM CONCEPCION AND MADERAS WATERS AND GASES.	O. VASELLI	E. DUARTE
385	SIVB-078-P	USE OF CARBON DIOXIDE SOIL EMISSIONS TO FORECAST ERUPTIONS IN MONOGENETIC VOLCANIC FIELDS	R.E. VILLALPANDO-CORTÉS	H. DELGADO GRANADOS
173	SIVB-079-P	DEVELOPMENT AND ASSESSMENT OF A LOW-COST, REAL-TIME SYSTEM FOR REMOTELY MONITORING ACTIVE VOLCANOES IN DEVELOPING COUNTRIES.	P.W. WEBLEY	P.W. WEBLEY
491	SIVB-080-P	VOLCANO MONITORING IN ECUADOR – VOLCANIC OBSERVATORIES NETWORK FROM THE GEOPHYSICAL INSTITUTE (ROVIG)	A. ALVARADO	A. ALVARADO
452	SIVB-081-P	LAHAR EARLY WARNING SYSTEMS BASED ON ACOUSTIC FLOW MONITORS IN ECUADOR	D. ANDRADE	D. ANDRADE
481	SIVB-082-P	MONITORING OF VOLCANIC HAZARDS TO MITIGATE RISKS TO PIPELINE INTEGRITY OLEODUCTO DE CRUDOS PESADOS (ECUADOR) S.A. (OCP), ECUADOR	E. GORDILLO	E. GORDILLO
277	SIVB-083-P	MONITORING OF THE 2004-05 EFFUSIVE ERUPTION AT MT. ETNA VOLCANO, ITALY	D. ANDRONICO	D. ANDRONICO
24	SIVB-084-P	SELF-POTENTIAL NETWORK AT ETNA VOLCANO AND STROMBOLI ISLAND	G. COLANGELO	G. COLANGELO
524	SIVB-085-P	NEW DIGITAL INSTRUMENTATION NETWORKS FOR VOLCANO MONITORING IN ECUADOR	W. ENRÍQUEZ	W. ENRÍQUEZ
525	SIVB-086-P	MAKING THE TRANSITION FROM ANALOGICAL TO DIGITAL-- IN VOLCANO MONITORING INSTRUMENTATION	W. ENRÍQUEZ	W. ENRÍQUEZ
28	SIVB-087-P	PREDICTION OF CHANGES IN VOLCANIC ACTIVITY BASED ON ASH SURFACE TEXTURES: A CASE STUDY, THE 1982-83 ERUPTION OF GALUNGGUNG VOLCANO (INDONESIA)	O. ERSOY	O. ERSOY
338	SIVB-088-P	VOLCANIC MONITORING AT GALERAS, COLOMBIA	D. GÓMEZ	B. SILVA
359	SIVB-089-P	MULTI PARAMETER MONITORING OF KRAKATAU VOLCANO: KRAKMON	M. IBS-VON SEHT	M. IBS-VON SEHT
282	SIVB-090-P	EXAMINING THE USE OF METEOROLOGICAL DATA AS A VOLCANO MONITORING TOOL AT SOUFRIERE HILLS VOLCANO, MONTSERRAT.	J.E. JOHNSTONE	J.E. JOHNSTONE
284	SIVB-091-P	INVESTIGATION OF TRIGGERING MECHANISMS FOR RAINFALL INDUCED VOLCANIC ACTIVITY, USING TIME SERIES ANALYSIS ON SOUFRIERE HILLS VOLCANO, MONTSERRAT.	J.E. JOHNSTONE	J.E. JOHNSTONE
375	SIVB-092-P	ACOUSTIC SURVEILLANCE FOR HAZARDOUS ERUPTIONS (ASHE): A PROOF-OF-CONCEPT EXPERIMENT FOR OPERATIONAL NEAR-REAL-TIME INFRASONIC REMOTE SENSING	D. MCCORMACK	D. MCCORMACK
187	SIVB-093-P	MONITORING KILAUEA AND MAUNA LOA VOLCANOES USING TIME-LAPSE AND REAL-TIME CAMERA SYSTEMS	T.R. ORR	T.R. ORR
538	SIVB-094-P	DEVELOPMENT OF UNMANNED AUTONOMOUS VEHICLES (UAVS) FOR VOLCANO SURVEILLANCE	M.C. PATTERSON	L.J. WARDELL
189	SIVB-095-P	ANALYSIS OF TIME SERIES OF HEAT AND MASS TRANSFER ON ACTIVE VOLCANOES	S. PEARSON	S. PEARSON
215	SIVB-096-P	THE GLACIERS OF THE CERRO BRAVO-MACHIN VOLCANIC COMPLEX: ESSENTIAL INFORMATION IN DISASTERS PREVENTION, THE LAST 20 YEARS, A REVIEW.	J. RAMÍREZ	H. MORA-PÁEZ
540	SIVB-097-P	THERMAL MONITORING USING A PORTABLE IR CAMERA. RESULTS ON ECUADORIAN VOLCANOES	P. RAMON	P. RAMON
468	SIVB-098-P	ANOMOLOUS ACTIVITY AT COTOPAXI STUDIED WITH INTEGRATED SEISMIC, THERMAL, AND VISUAL OBSERVATIONS	D. RIVERO	D. RIVERO
131	SIVB-099-P	ELECTRIC STRUCTURE OF THE COPAHUE VOLCANO AND FUTURE ERUPTIVE PREDICTIONS	E. ROVERE	E. ROVERE

374	SIVB-100-P	MAGNETOTELLURIC METHOD IMPLEMENTATION AT GALERAS VOLCANO, COLOMBIA	A. RUGELES	A. RUGELES
384	SIVB-101-P	TUNGURAHUA 2004: RESULTS OF A SEISMO-ACOUSTIC DEPLOYMENT ON AN ANDESITIC VOLCANO	M. RUIZ	M. RUIZ
151	SIVB-102-P	AVHRR CASE STUDIES FROM AN OPERATIONAL SATELLITE BASED SYSTEM FOR THERMALLY MONITORING CENTRAL AMERICAN VOLCANOES	J.A. SABALLOS	J.A. SABALLOS
363	SIVB-103-P	VOLCANIC ACTIVITY AFTER THE 1990-1995 ERUPTION OF UNZEN VOLCANO	H. SHIMIZU	H. SHIMIZU
426	SIVB-104-P	INCREASING ACTIVITY AT VOLCÁN DE COLIMA, MEXICO: MODELLING THE TRANSITION BETWEEN ERUPTIVE AND EXPLOSIVE ACTIVITY	N. VARLEY	N. VARLEY
76	SIVB-105-P	A WIRELESS SEISMOACOUSTIC SENSOR NETWORK FOR MONITORING ACTIVITY AT VOLCÁN REVENTADOR, ECUADOR	M. WELSH	M. WELSH

## Symposium VII- Human Health Impacts of Volcanism--Ground-Level (Patio) Corridors

No.	Poster Code	POSTER TITLE	First Author	Presenter
251	S-VII-001-P	HUMAN HEALTH HAZARDS FROM VOLCANIC GASES – A LITERATURE REVIEW	A. HANSELL	A. HANSELL
58	S-VII-002-P	IMPACT OF DEGASSING EVENTS ON ENVIRONMENT AND HUMAN SETTINGS NEAR POÁS VOLCANO; COSTA RICA.	E. DUARTE	E. DUARTE
86	S-VII-003-P	ASSESSMENT OF PASSIVE SAMPLERS FOR VOLCANIC GAS MONITORING	A. ALLEN	A. ALLEN
56	S-VII-004-P	NUMERICAL SIMULATION OF HEAVY GAS DISPERSION BASED ON DEPTH-AVERAGED EQUATIONS	R. HANKIN	R. HANKIN
405	S-VII-005-P	DEVELOPMENT OF A LOW-COST, PORTABLE SO <sub>2</sub> ADVISORY SYSTEM FOR USE IN VOLCANIC ENVIRONMENTS	T. ELIAS	T. ELIAS
439	S-VII-006-P	INCREASED CO <sub>2</sub> EMISSIONS FROM KILAUEA: A NEWLY APPRECIATED HEALTH HAZARD AT HAWAII VOLCANOES NATIONAL PARK, USA	A. J. SUTTON	A. J. SUTTON
199	S-VII-007-P	QUALITATIVE STUDY OF HYDROLOGIC RESOURCES OF THE BALENG AND BANEFO VOLCANIC LAKES (NOUN PLAIN, CAMEROON LINE)	P. WOTCHOKO	P. WOTCHOKO
3	S-VII-008-P	METHODOLOGICAL ADVANCES: UNDERSTANDING THE VOLCANO HAZARD THROUGH GEOGRAPHY AND ANTHROPOLOGY	H. BELL	H. BELL
21	S-VII-009-P	ENVIRONMENTAL HEALTH IMPACTS OF THE EAST AFRICAN RIFT VOLCANISM	T. DAVIES	T. DAVIES
69	S-VII-010-P	LAVA FLOWS IN TENERIFE: PARAMETERISATION, SIMULATIONS, AND CONSEQUENCES FOR EMERGENCY PLANNING	C. SOLANA	C. SOLANA
194	S-VII-011-P	PROVIDING HEALTH INFORMATION TO THE PUBLIC DURING A VOLCANIC CRISIS IN NEW ZEALAND	A. SANDERS	A. SANDERS
41	S-VII-012-P	GEOCHEMICAL ENVIRONMENTAL ATLAS OF THE VOLCANIC URBAN AND PROVINCIAL SOILS OF NAPLES (ITALY)	B. DE VIVO	B. DE VIVO
42	S-VII-013-P	RADIOACTIVITY IN THE NEAPOLITAN VOLCANIC AREAS: A COMPARISON BETWEEN SUPERFICIAL GEOCHEMISTRY OF RADIOGENIC ELEMENTS AND GAMMA-RAY SURVEY	A. LIMA	A. LIMA
366	S-VII-014-P	A QUANTITATIVE LOOK AT FLUORIDE EXPOSURE AND INTAKE OF RESIDENTS IN VOLCANIC AREAS USING A HEALTH RISK ASSESSMENT APPROACH	P. DELMELLE	P. DELMELLE
127	S-VII-015-P	A NEW GRAVITY MAP IN A DENSELY INHABITED AREA (CIAMPINO AND MARINO DISTRICTS) OF COLLI ALBANI VOLCANIC DISTRICT CHARACTERIZED BY THE OCCURENCE OF GEOCHEMICAL MANIFESTATIONS	M. DI NEZZA	M. DI NEZZA
67	S-VII-016-P	GEOCHEMICAL INVESTIGATIONS AT SULPHUR SPRINGS, ST. LUCIA: MONITORING OF THE PUBLIC HEALTH	E. JOSEPH	E. JOSEPH
143	S-VII-017-P	LESSONS LEARNED FROM PSYCHOSOCIAL RESPONSES TO THE ASIAN TSUNAMI	G. JACOBS	G. JACOBS
33	S-VII-018-P	THE INFLUENCE OF BUILDING TYPE ON HUMAN SURVIVABILITY OF EXPLOSIVE VOLCANIC ERUPTIONS	R. SPENCE	I. KELMAN



## COV4 Meeting Schedule- Tuesday, 24 January, 2006

### Sala 1 (large)†

8H30 - 9H00 **Plenary Symposium I: Lahars and Debris Flows**  
**J. Major**  
 LAHARS—AN OVERVIEW OF 25 YEARS OF NEW GEOLOGICAL, HYDROLOGICAL, AND HAZARDS INSIGHTS

9H00-9H30 **Plenary Symposium VII: Human Health Impacts of Volcanism**  
**P. Baxter**  
 QUANTIFICATION AND MODELLING OF THE HUMAN IMPACTS OF VOLCANIC ERUPTIONS: AN OVERVIEW OF RECENT ADVANCES

### Sala 1 (large)

**IV-B: Monitoring Continuation**  
**Chairs: J. Ewert, A. García, H. Kumagai & J. Johnson**

### Sala 2 (medium)

**I: Lahars**  
**Chairs: J. Major, J. L. Macías, P. Mothes, M. Castro & M. Rosi**

### Sala 3 (small)

**Chairs: P. Baxter, C. Horwell, T. Elias, L. Whiteford & G. Tobin**

9H30 - 9H50 **A. Garcia-Aristizabal:** SEISMIC, PETROLOGIC, AND GEODETIC ANALYSES OF THE 1999-2001 DOME-FORMING ERUPTION OF GUAGUA PICHINCHA VOLCANO, ECUADOR

**V. Manville:** ANALYSIS OF LAHAR HAZARDS - THE STATE OF THE ART

**D. Dockery:** CONCENTRATION AND ACIDITY OF AIRBORNE PARTICULATE MATTER IN COMMUNITIES ON THE BIG ISLAND OF HAWAII

9H50-10H10 **C. Vargas-Jimenez:** CODA Q TOMOGRAPHY IN THE NEVADO DEL RUIZ VOLCANO (COLOMBIA) FOR THE VOLCANIC CRISIS OF JUNE 8-9TH AND AUGUST 1-2ND, 2002

**G. Zanchetta:** THE HAZARD ZONATION OF SYNERUPTIVE VOLCANOCLASTIC DEBRIS FLOWS IN THE VESUVIAN AREA (ITALY)

**T. Hincks:** A PROBABILISTIC RISK ASSESSMENT FOR LONG-TERM EXPOSURE TO RESPIRABLE VOLCANIC ASH ON MONTSERRAT

10H10 - 10H30 **F. Gil-Cruz:** BEHAVIOR MODEL OF NEVADO DEL RUIZ VOLCANO BASED ON DETAILED ANALYSIS OF SEISMIC ACTIVITY ASSOCIATED WITH ERUPTIVE PROCESSES OF 1985 AND 1989

**T. Davies:** VOLCANIC MASS MOVEMENT HAZARDS MITIGATION

**E. Naumova:** EMERGENCY ROOM VISITS FOR RESPIRATORY CONDITIONS INCREASED AFTER PICHINCHA VOLCANIC ERUPTIONS IN QUITO, ECUADOR

10H30-11H00 **Coffee break**

11H00-11H20 **N. Varley:** ADVANCES IN MONITORING TO BETTER EVALUATE AND FORECAST THE RISK AT VOLCÁN DE COLIMA, MEXICO

**H. Suwa:** LAHAR SEDIMENTATION DURING AND POST-ERUPTION

**G. Tobin:** CHRONIC VOLCANO HAZARDS AND HEALTH IMPACTS: ASH-FALLS AROUND MOUNT TUNGURAHUA, ECUADOR

11H20 11H40	- <b>Josep Vila:</b> THE BASE LEVEL NOISE SEISMIC SPECTRUM (BLNSS) AS A RECOGNITION OF EARLY ONSET OF VOLCANIC UNREST	<b>G. Leonard:</b> DEVELOPING EFFECTIVE VOLCANIC WARNING SYSTEMS: LAHAR WARNINGS AT RUAPEHU, NEW ZEALAND	<b>P. Baxter:</b> BASALTIC ASH: AN UNRECOGNISED RESPIRATORY HEALTH HAZARD
11H40-12H00	<b>R. White:</b> VOLCANO-TECTONIC VERSUS TECTONIC EARTHQUAKE SEQUENCES NEAR ACTIVE VOLCANOES	<b>A. Lavigne:</b> LAHAR MONITORING AND WARNING SYSTEMS IN INDONESIA	<b>R. Crimp:</b> DENTAL FLUOROSIS ATTRIBUTED TO VOLCANIC DEGASSING ON AMBRYM, VANUATU
12H00-12H20	<b>B. Chouet:</b> BROADBAND VOLCANO SEISMOLOGY: TOWARD A REAL-TIME QUANTITATIVE ASSESSMENT OF ACTIVE CONDUIT DYNAMICS AT STROMBOLI VOLCANO, ITALY	<b>D. Johnston:</b> MITIGATING SOCIAL AND ECONOMIC CONSEQUENCES OF LAHARS: LESSONS FROM MT RAINIER, USA AND RUAPEHU, NEW ZEALAND	<b>J. Gratten:</b> CONTINENTAL SCALE IMPACTS OF VOLCANIC GASES ON HUMAN HEALTH: THE LAKI FISSURE ERUPTION AND THE MORTALITY CRISES OF 1783-84
12H20-14H00	<b>Lunch in Iglesia/Convento La Merced</b>		
14H00 14H30	- <b>Plenary</b> <b>Symposium IV-A: Volcano Studies</b> <b>R. Tilling:</b> UNDERSTANDING VOLCANOES: KEY TO REDUCING RISK FROM THEIR HAZARDS		
	<b>IV-A: Volcano Studies</b> <b>Chairs: M. Coltelli, P. Ramón, J.-P. Eissen, S. de la Cruz</b>	<b>I: Lahars-Cont.</b> <b>Chairs: J. Major, P. Mothes, J. L. Macías, M. Castro &amp; M. Rosi</b>	<b>VII: Health-Cont.</b> <b>Chairs: P. Baxter, C. Horwell, T. Elias, L. Whiteford &amp; G. Tobin</b>
14H30-14H50	<b>H. Huppert:</b> THE IMPACT OF MAGMA RECHARGE AND HEATING ON EFFUSIVE ERUPTIONS	<b>R. Solidum:</b> POST-1991 ERUPTION LAHAR HAZARDS AND MITIGATION MEASURES AT MOUNT PINATUBO, PHILIPPINES	<b>I. Kelman:</b> HUMAN CASUALTIES IN PYROCLASTIC FLOWS: AN IMPACT MODEL BASED ON EUROPEAN CASE STUDIES
14H50-15H10	<b>D. Geist:</b> THE PLUMBING SYSTEMS OF THE GALAPAGOS SHIELDS AND THEIR PETROLOGIC EVOLUTION	<b>M. Calvache:</b> THE NEVADO DEL RUIZ, 1985 ERUPTION: A GOOD EXAMPLE OF FAILED EMERGENCY MANAGEMENT	<b>L. Whiteford:</b> MODELING CHRONIC HAZARD MITIGATION AND HEALTH: SAVING LIVES, DESTROYING LIVELIHOODS
15H10-15H30	<b>L. Civetta:</b> EVOLUTION AND PRESENT STATE OF MAGMATIC FEEDING SYSTEMS: THEIR SIGNIFICANCE FOR VOLCANIC HAZARD EVALUATION. EXAMPLES FROM VESUVIUS AND CAMPI FLEGREI CALDERA	<b>G. Carrasco-Nuñez:</b> DEBRIS AVALANCHE AND LAHARS TRIGGERED BY NON-MAGMATIC EVENTS: EASTERN MEXICAN VOLCANIC BELT, IMPLICATIONS FOR HAZARD ASSESSMENTS	<b>E. López-Vásquez:</b> VOLCANIC RISK PERCEPTION, STRESS AND COPING STRATEGIES OF PEOPLE LIVING NEAR THE VOLCANO POPOCATEPETL
15H30-15H50	<b>K. Harpp:</b> ON THE ORIGIN OF VOLCANISM IN THE NORTHERN GALAPAGOS ISLANDS: LITHOSPHERIC FRACTURING AND PLUME-RIDGE INTERACTION	<b>P. Mothes:</b> CHARACTER, STRATIGRAPHY AND MAGNITUDE OF HISTORICAL LAHARS--COTOPAXI VOLCANO, ECUADOR	<b>R. Perez:</b> SIMULATION EXERCISE WITH NEW TECHNOLOGIES: A TOOL GEARED TOWARDS STRENGTHENING COORDINATION AND DECISION-MAKING IN PREPAREDNESS AND RESPONSE FOR VOLCANIC EMERGENCIES

15H50-16H10 **J-L Le Pennec:** RECURRENCE  
PATTERN OF LATE  
HOLOCENE ERUPTIONS AT  
TUNGURAHUA VOLCANO  
(ECUADOR) REVEALED BY  
RADIOCARBON DATING OF  
CHARCOAL IN PYROCLASTIC  
FLOW DEPOSITS

**Panel Discussion**

**Panel Discussion**

16H10-18H00

**Poster Session #1 (Continued)-- LAHARS & ASH (Upper Corridors) MONITORING & HEALTH (Main Patio) w/ Beverages and Snacks§**

18h00-

**Return to Hotels**

19H00-

**Evening activities in Hotel Quito.** Meetings of: IVHHN, WOVO, Cities on Volcanoes Commission & NOVAC-1. For more details see back portion of this Programme





## COV4 Meeting Schedule- Wednesday, 25 January, 2006 Intrameeting FieldTrip to Cotopaxi Volcano and the Surrounding Vallies

### General Information

This trip will take participants up the Western and Northern flanks of Cotopaxi Volcano. The maximum elevation obtained will be 3800 m.  
There will be no strenuous hikes, but at each stop there will be opportunities to walk around and observe outcrops etc.  
Each bus will have approximately 40 people.

In order to have less congestion at outcrops and to make your journey more enjoyable we will divide the trip into two groups: one group leaves on buses an hour earlier than the other group. But both groups visit the same sites during the day.

Buses will leave from Hotel Quito. You are responsible to get yourself to Hotel Quito in order to catch a bus.

**The first group of buses leaves at 07H15**

**The second group of buses leaves at 08H15**

Please sign up on Monday or Tuesday at the registration desk for which time you would prefer. Your signing up will help us to determine the number of buses that will be used for transport. Remember, the view of the volcanoes is usually clearer in the earlier hours of the day!!

Protective hats, a sweater and wind breaker and strong sunscreen are mandatory. Also, you may require more drinking water than usual because of the dry conditions, so come prepared.

The return in the afternoon to Hotel Quito will be before 6pm.



## COV4 Meeting Schedule - Poster Session #2: Thursday & Friday (26 & 27 January, 2006)

**Symposia: III= New Techniques; IV-A = Volcano Studies; V = Risk; VI = Emergency; VIII = Archaeology**

Place: Convento's patios/corridors

Please place your poster in its designated spot on Thursday morning and remove it after the session's closure on Friday afternoon. This assures that your poster will be seen during its two days of continual exposure.

There will be two areas for poster exhibition.

Symposia V (Risk Management), VI (Emergency Management) & VIII (Archaeology) will exhibit posters on appropriate stands in the corridors of the groundlevel patio of the convent; (about 120 posters)

Symposia III (New Techniques) & IV-A (Volcano Studies) will exhibit posters in the upper corridor's of the convent-- the next floor up from the patio; (about 120 posters)

You will be provided with the implements to hang your poster. Under no circumstances can you paste a poster with tape to the convent wall!!! Please be respectful of the artwork hanging on the convent walls.

You are encouraged to remain beside your poster for the first hour of each respective session-- for question/answer and discussion-- during the two designated poster times, Thursday afternoon and Friday morning, respectively.

Please remember, if possible, to bring small paper copies of your poster for hand-outs.

Enjoy the poster sessions!!

### Symposium III: New Computational Techniques for Mitigating Volcanic Hazards--- Upper Level (Above Main Patio) Corredors of the Convent

Poster code	Poster Title	First Author	Presenter
SIII-01-P	A NEW CONTINUUM APPROACH FOR THE PYROCLASTIC FLOW DEPOSIT	G. CORDOVA	G. CORDOVA
SIII-02-P	THREE-DIMENSIONAL NUMERICAL SIMULATIONS OF A PYROCLASTIC SURGE	Y. ISHIMINE	Y. ISHIMINE
SIII-03-P	A PRACTICAL PERSPECTIVE TO MODEL VOLCANIC GRANULAR FLOWS	J.L. PALMA	J.L. PALMA
SIII-04-P	DAM-BREAK EXPERIMENTS ON WATER AND GAS-FLUIDIZED GRANULAR FLOWS AND THEIR IMPLICATIONS FOR PYROCLASTIC FLOW MODELING	O. ROCHE	O. ROCHE
SIII-05-P	HAZARDS MAP OF CONCEPCIÓN VOLCANO (NICARAGUA)	H. DELGADO GRANADOS	H. DELGADO GRANADOS

SIII-06-P	COMPARISON OF FIELD OBSERVATIONS AND SIMULATIONS OF PYROCLASTIC FLOWS AT MERAPI VOLCANO, CENTRAL JAVA, INDONESIA	A.C. MOORE	A.C. MOORE
SIII-07-P	NUMERIC SIMULATION OF HAZARD MAPPING OF DEBRIS AVALANCHES FOR NON VOLCANIC ASSOCIATED FLANK COLLAPSES. CASE OF STUDY: COFRE DE PEROTE, (MEXICO).	R. DIAZ CASTELLON	R. DIAZ CASTELLON
SIII-08-P	TOPOGRAPHIC CHANGES AT ARENAL VOLCANO (COSTA RICA): GIS, DEM UNCERTAINTY AND POSSIBLE HAZARD IMPLICATIONS	D. ORAMAS DORTA	D. ORAMAS DORTA
SIII-09-P	EFFECTS OF VALLEY GEOMORPHOLOGY ON PYROCLASTIC FLOW HAZARDS: THE VAZCÚN VALLEY AND THE CITY OF BAÑOS, ECUADOR.	A.J. STINTON	A.J. STINTON
SIII-10-P	MODELLING PYROCLASTIC FLOWS WITH TITAN2D	C. WIDIQIJAYANTI	B. VOIGHT
SIII-11-P	COMPUTER MODELLING THE PYROCLASTIC FLOW HAZARDS OF MOUNT NGAURUHOE, TONGARIRO VOLCANIC COMPLEX, NEW ZEALAND	K. MARTELLI	S. CRONIN
SIII-12-P	EVALUATING THE UPDATED TITAN2D MASS-FLOW MODEL: THE NOVEMBER 3, 2002 LITHIC-RICH PYROCLASTIC FLOWS AT EL REVENTADOR	B. BURKETT	M.F. SHERIDAN
SIII-13-P	TITAN2D MODELS OF ARENAL PYROCLASTIC FLOWS	M. BERROCAL	E. MALAVASSI
SIII-14-P	INTEGRATION OF GEOPHYSICAL MASS FLOW MODEL AND GIS FROM GEOGRAPHIC INFORMATION SCIENCE (GISCIENCE) PERSPECTIVE	L.M. NAMIKAWA	L.M. NAMIKAWA
SIII-15-P	UTILISING TITAN 2D TO FORECAST DOME-COLLAPSE BLOCK-AND-ASH FLOW (BAFS) HAZARDS FROM MOUNT TARANAKI	J. PROCTER	J. PROCTER
SIII-16-P	FORMULATION AND VALIDATION OF FALL3D-P: A PARALLEL COMPUTATIONAL MODEL FOR VOLCANIC ASH TRANSPORT	A. FOLCH	A. COSTA
SIII-17-P	NEW DISPERSION-MODEL ENSEMBLE TECHNIQUES FOR IMPROVED ASH HAZARD FORECASTS	R. PETERSON	R. PETERSON
SIII-18-P	SOLUTION AND PARAMETRIC STUDY OF A COMBINED CONDUIT AND ERUPTION COLUMN MODEL	M. DIEZ	M. DIEZ
SIII-19-P	HAZARD ESTIMATION USING BEOWULF CLUSTER SIMULATIONS OF TEPHRA FALLOUT AND LAHARS IN IRAZÚ VOLCANO, COSTA RICA	J. CASTRO	J. CASTRO
SIII-20-P	SIMULATION OF VOLCANIC ERUPTIONS: VALIDATION OF ATHAM	S.E. KOBBS	S.E. KOBBS
SIII-21-P	EXPERIMENTAL DETERMINATION OF DRAG COEFFICIENT FOR VOLCANIC MATERIALS: CALIBRATION AND APPLICATION OF A MODEL TO POPOCATÉPETL VOLCANO (MEXICO) BALLISTIC PROJECTILES	M.A. ALATORRE-IBARGUENGOITIAI	H. DELGADO GRANADOS
SIII-22-P	REAL TIME HAZARD MAP IN COTOPAXI VOLCANO	M. RIVERA	M. RIVERA
SIII-23-P	LAHAR HAZARD ASSESSMENT AT NEVADO CAYAMBE VOLCANO (ECUADOR)	P. SAMANIEGO EGUIGUREN	P. SAMANIEGO EGUIGUERON
SIII-24-P	VOLCANOES OF CENTRAL AMERICA: AN INTERACTIVE CD-ROM FROM THE SMITHSONIAN INSTITUTION'S GLOBAL VOLCANISM PROGRAM	L. SIEBERT	L. SIEBERT
SIII-25-P	CARTOGRAFÍA DIGITAL DE VOLCANES EN MÉXICO	A.F. BARRIENTOS REYNA	A.F. BARRIENTOS REYNA
SIII-26-P	THE CARTOGRAPHIC AND EDITING LABORATORY OF THE INGV-CATANIA SECTION	D. ANDRONICO	D. ANDRONICO
SIII-27-P	ADVANCED GRAPHICS FOR THE VISUALIZATION OF 3D SIMULATIONS OF EXPLOSIVE ERUPTIONS: A NEW TOOL TO EXPRESS AND COMMUNICATE THE VOLCANIC RISK	R. GORI	A. NERI
SIII-28-P	DEVELOPING OF A GIS FOR HELPING IN THE EVALUATION OF VOLCANIC ACTIVITY AT NEVADO DEL RUIZ VOLCANO, COLOMBIA.	J.M. LONDONO	J.M. LONDONO
SIII-29-P	THREE-DIMENSIONAL MODEL OF THE GEOLOGICAL HISTORY OF COTOPAXI VOLCANO	V. VALENCIA	V. VALENCIA
SIII-30-P	DATAMART OF VOLCANOLOGY FOR THE INSTITUTO GEOFISICO OF THE ESCUELA POLITECNICA NACIONAL	O. MALDONADO	O. MALDONADO

SIII-31-P	VARIATIONS IN THE STRESS AND GRAVITY FIELDS ASSOCIATED WITH CONVECTION IN REPLENISHED MAGMA CHAMBERS	A. LONGO	P. PAPAIE
SIII-32-P	SIMULATION OF COUPLED FLUID FLOW AND ASSOCIATED ELECTRIC AND MAGNETIC FIELDS INSIDE VOLCANOES	S. FRIEDEL	S. FRIEDEL
SIII-33-P	STRESS STATE IN VOLCANIC AREAS DUE TO MAGMATIC INTRUSIONS IN THE PRESENCE OF FLUIDS	J. SELVA	J. SELVA
SIII-34-P	LATTICE BOLTZMANN METHOD: A NEW TOOL FOR MODELING OF VOLCANIC PROCESSES	L. D'AURIA	L. D'AURIA
SIII-35-P	CLUSTERING OF VOLCANIC ASHES FROM DIFFERENT FRAGMENTATION MECHANISMS	O. ERSOY	O. ERSOY
SIII-36-P	A STABILITY ANALYSIS OF TUNGURAHUA VOLCANO (ECUADOR) PRIOR TO ITS 3,000 YRS BP FLANK FAILURE: IMPLICATION FOR HAZARD ASSESSMENT	D. JAYA	D. JAYA

## Symposium IV-A: Volcano Studies-- Upper Level (Above Main Patio) Corridors of the Convent

Poster Code	POSTER TITLE	First Author	Presenter
SIVA-1-P	WHAT DRIVES SHORT-TERM EPISODICITY OF ERUPTING VOLCANOES?	J. JOHNSON	J. JOHNSON
SIVA-2-P	TOMOGRAPHY OF CRUSTAL MAGMA BODIES	J. LEES	
SIVA-3-P	LIFE SPANS OF RHYOLITE DOMES: SHORT- OR LONG-TERM HAZARDS?	N. RIGGS	N. RIGGS
SIVA-4-P	COMPOSITIONAL COMPLEXITY OF ANDESITIC TEPHRA: IMPLICATIONS FOR CORRELATION AND HAZARDS ASSESSMENTS	S. DONOGHUE	S. DONOGHUE
SIVA-5-P	STATISTICAL ANALYSIS OF BUBBLE SIZE DISTRIBUTIONS IN VOLCANIC ROCKS: FORMULATION AND APPLICATION TO VESICULAR BASALTS	A. PROUSSEVITCH	A. PROUSSEVITCH
SIVA-6-P	BREADCRUST BLOCKS: VARIATIONS IN BREADCRUST STYLE, VOLATILE CONTENT, AND COMPOSITION	H. WRIGHT	H. WRIGHT
SIVA-7-P	PRELIMINARY RESULTS FOR VOLCANIC ROCKS UNDER 1 MA USING 40AR/39AR METHODOLOGY AT THE QUEEN'S UNIVERSITY 40AR/39AR LABORATORY, CANADA.	A. ORTEGA-RIVERA	A. ORTEGA-RIVERA
SIVA-8-P	A GEOCHEMICAL LABORATORY ON THE FIELD. NEW GAS MONITORING SYSTEMS BY MICRO-GASCHROMATOGRAPHY APPLIED ON VOLCANO AND SEISMIC AREAS	F. SORTINO	F. SORTINO
SIVA-9-P	THE EVOLUTION OF CERRO PINTO DOME COMPLEX, PUEBLA, MEXICO	B. ZIMMER	B. ZIMMER
SIVA-10-P	ANCIENT AND RECENT CALDERAS OF THE MEXICAN VOLCANIC BELT, AND POSSIBLE VOLCANIC HAZARDS	G. AGUIRRE DÍAZ	G. AGUIRRE DÍAZ
SIVA-11-P	HOLOCENE VOLCANIC STRATIGRAPHY OF TACANÁ VOLCANO, MEXICO-GUATEMALA	J.L. MACIAS	J. L. MACIAS
SIVA-12-P	DORMANT VOLCANOES AND SOME CITIES IN NICARAGUA	P. HRADECKY	P. HRADECKY
SIVA-13-P	MAPPING CERRO NEGRO'S FUMAROLE FIELD CAMPAIGN AND INSTRUMENT COMPARISON	T. LOPEZ	T. LOPEZ
SIVA-14-P	THE IRAZU VOLCANO, COSTA RICA ACTIVE FAULTS IN 1991-1994-1997	V. BARBOZA	V. BARBOZA
SIVA-15-P	CRATER LAKES OF COSTA RICA: A GEOCHEMICAL SURVEY	F. TASSI	E. FERNÁNDEZ
SIVA-16-P	VOLCANO DYNAMICS AND PHYSICAL PROPERTIES OF THE ACIDIC LAKE AT POÁS VOLCANO (COSTA RICA): 1860 TO 2005	R. MORA	R. MORA
SIVA-17-P	REPETITIVE PHREATOMAGMATIC EXPLOSIONS OF A GROWING DOME: A CASE STUDY OF RHYOLITIC TEPEXITL MAAR	A. AUSTIN	A. AUSTIN
SIVA-18-P	VOLCANIC LAKES IN COLOMBIA: AN OVERVIEW	G. GARZON	G. GARZON
SIVA-19-P	EVALUATION OF A PYROCLÁSTIC DEPOSIT IN NEVADO DEL RUIZ VOLCANO DATED IN 1275 ± 50 YEARS, COLOMBIA	I.C. CORREA MONTAÑO	I.C. CORREA MONTAÑO
SIVA-20-P	LATE HOLOCENE ACTIVITY OF CHIMBORAZO VOLCANO (ECUADOR)	D. BARBA	D. BARBA
SIVA-21-P	STRUCTURAL GEOLOGY AND GEOCHEMICAL EVOLUTION OF THE SUMACO VOLCANO, SUBANDEAN ECUADOR.	T. TOULKERIDIS	T. TOULKERIDIS

SIVA-22-P	UNRAVELLING THE MAGMA PLUMBING SYSTEMS OF EL REVENTADOR AND SUMACO ACTIVE VOLCANOES (SUB-ANDEAN ZONE, ECUADOR) THROUGH A COMPREHENSIVE STRATIGRAPHIC AND PETROLOGICAL STUDY OF THE EXTRUSIVE SEQUENCES	T. TOULKERIDIS	T. TOULKERIDIS
SIVA-23-P	THE ERUPTIVE HISTORY AND GEOCHEMICAL EVOLUTION OF FLOREANA ISLAND, GALAPAGOS ARCHIPELAGO	B. CHRISTENSEN	B. CHRISTENSEN
SIVA-24-P	THE VOLCANO CUICOCHA, ECUADOR: HISTORY AND RECENT POST-VOLCANIC ACTIVITIES	B. GRUPE	B. GRUPE
SIVA-25-P	ACCUMULATION OF CARBON DIOXIDE IN DEEP CALDERA LAKES OF ECUADOR: EVALUATION AND MONITORING OF POSSIBLE GAS ERUPTIONS	G. GUNKEL	G. GUNKEL
SIVA-26-P	NEW CHRONOLOGICAL DATA OF THE HOLOCENE ACTIVITY OF THE ATACAZO-NINAHUILCA VOLCANIC COMPLEX (ECUADOR)	S. HIDALGO	S. HIDALGO
SIVA-27-P	NEW INSIGHTS ON HOLOCENE ACTIVITY AT GUAGUA PICHINCHA VOLCANO (ECUADOR) BY <sup>14</sup> C DATA. IMPLICATIONS FOR HAZARDS IN THE METROPOLITAN AREA OF QUITO.	M. MONZIER	C. ROBIN
SIVA-28-P	NATURE AND EXTENSION OF THE ECUADORIAN UNDERSATURATED REAR-ARC VOLCANISM	G. HOFFER	G. HOFFER
SIVA-29-P	POTENTIAL HAZARDS IN CASE OF UNREST AT MOJANDA - FUYA FUYA VOLCANIC COMPLEX, ECUADOR.	C. ROBIN	C. ROBIN
SIVA-30-P	NEW HAZARDS MAP AND VOLCANO MONITORING OF IMBABURA VOLCANIC COMPLEX, ECUADOR	A. G. RUIZ	A.G. RUIZ
SIVA-31-P	SILICIC-SILICIC MAGMA RECHARGE AS AN ERUPTION TRIGGER FOR THE 1600 ERUPTION OF HUAYNAPUTINA	S. DE SILVA	S. DE SILVA
SIVA-32-P	VOLCANIC HAZARDS EVALUATION OF YUCAMANE VOLCANO, SOUTHERN PERU	M. RIVERA	M. RIVERA
SIVA-33-P	RADIOCARBON AGES AND COMPOSITION OF HOLOCENE-LATE PLEISTOCENE MONOGENETIC KIMSACHATA AND OROSCOCHA VOLCANOES IN CUSCO, PERÚ	C. SIEBE	C. SIEBE
SIVA-34-P	PLAGIOCLASE ZONING PATTERNS REFLECT COMPLEX MAGMATIC PROCESSES AT HUYNAPUTINA VOLCANO, PERU	A. VALLÉE	A. VALLÉE
SIVA-35-P	POTENTIAL VOLCANIC HAZARDS RELATE TO MIXING/MINGLING OF BASALTIC AND INTERMEDIATE TO SILICIC MAGMAS AT YATE VOLCANO, SOUTHERN ANDES, CHILE.	M. MELLA	M. MELLA
SIVA-36-P	CALDERA FORMING ERUPTIONS OF OKMOK VOLCANO, ALASKA	J. LARSEN	J. LARSEN
SIVA-37-P	VOLUME AND PETROLOGIC CHARACTERISTICS OF THE KOLOA VOLCANICS, KAUAI, HAWAII	C. GANDY	C. GANDY
SIVA-38-P	ASKJA 1875, ICELAND: A COMPLEX PLINIAN ERUPTION: WELDING AND ITS IMPLICATION FOR ERUPTION DYNAMICS.	R. CAREY	R. CAREY
SIVA-39-P	NEW U/TH DATING OF THE PANAREA AND BASILUZZO DOME LAVAS AND PYROCLASTICS, AEOLIAN ISLANDS, ITALY: IMPLICATIONS FOR DOME GROWTH RATES, ERUPTION FREQUENCY AND ASSESSMENT OF VOLCANIC HAZARDS.	D. DOLFI	D. DE RITA
SIVA-40-P	UNRAVELLING THE ERUPTIVE HISTORY OF STROMBOLI (ITALY) DURING THE HOLOCENE: NEW EVIDENCE FROM PALEOMAGNETIC DATING	F. SPERANZA	F. SPERANZA
SIVA-41-P	COEXISTING VESICULATED AND OBSIDIAN PYROCLASTS IN THE TEPHRA FROM THE CRETAIO ERUPTION (ISCHIA IS., ITALY): INFERENCE ON PARENTAL MELTS AND WATER SPECIATION IN THE GLASS STRUCTURE	F.F. SLEJKO	F. F. SLEJKO
SIVA-42-P	THE INNER STRUCTURE OF STROMBOLI VOLCANO REVEALED BY HIGH RESOLUTION ELECTRIC RESISTIVITY TOMOGRAPHY COUPLED WITH SELF-POTENTIAL, TEMPERATURE AND SOIL GAS EMISSION	T. RICCI	T. RICCI
SIVA-43-P	MODELING THE MAGMA PLUMBING SYSTEM IN ACTIVE VOLCANOES BY INTEGRATING FLUID INCLUSION, GEO-BAROMETRY, PETROLOGY AND GEOPHYSICAL STUDIES: THE CASE OF VULCANO ISLAND (AEOLIAN ARCHIPELAGO, ITALY)	A. PECCERILLO	G. DE ASTIS
SIVA-44-P	THE LATE PLEISTOCENE EXPLOSIVE ACTIVITY OF THE ALBANO MAAR, ALBAN HILLS VOLCANIC DISTRICT, CENTRAL ITALY – NEW DATA FOR A REAPPRAISAL OF THE ERUPTIVE DYNAMICS AND HISTORY	B. GIACCIO	B. GIACCIO
SIVA-45-P	ASSESSING MAGMA-FLUID-ROCK INTERACTIONS AT MAAR VOLCANOES OF THE COLLI ALBANI VOLCANIC DISTRICT, CENTRAL ITALY.	M. GAETA	D. M. PALLADINO
SIVA-46-P	PRELIMINARY VOLCANIC HAZARD ASSESSMENT OF NISYROS VOLCANO (GREECE)	A. VOLENTIK	A. VOLENTIK
SIVA-47-P	GEOCHEMISTRY AND GEOTHERMOMETRY PRELIMINARY CHARACTERIZATION OF ALKALINE BASALT SUITE OF CORVO ISLAND (AZORES ARCHIPELAGO, PORTUGAL)	Z. FRANÇA	Z. FRANÇA
SIVA-48-P	TWO ATLANTIC POTENTIALLY DANGEROUS STRATOVOLCANOES IN DIFFERENT STAGE OF EVOLUTION: TEIDE-PICO VIEJO (CANARY ISLANDS) AND MONTANHA DO PICO (AZORES ISLANDS)	Z. FRANÇA	Z. FRANÇA

SIVA-49-P	RECENT ERUPTIONS OF FOGO, FURNAS, AND FUJI VOLCANOES (AZORES AND JAPAN): PROCESSES AND TIMESCALES OF MAGMA EVOLUTION	E. WIDOM	E. WIDOM
SIVA-50-P	UNREST AT TEIDE VOLCANO: MULTIDISCIPLINARY APPROACH FOR VOLCANO MONITORING AND VOLCANIC HAZARDS EVALUATION	A. GARCIA	A. GARCIA
SIVA-51-P	THE WIDESPREAD MIOCENE AYAGAURES IGNIMBRITE ON GRAN CANARIA (CANARY ISLANDS)	M. JUTZELER	M. JUTZELER
SIVA-52-P	SELF-POTENTIAL AND IMAGE ANALYSIS OF MOUNT NEMRUT (EASTERN TURKEY): AN APPROACH TO THE HYDROTHERMAL SYSTEM	I. ULUSOY	I. ULUSOY
SIVA-53-P	DISCOVERY OF STROMBOLIAN CONE AT TOTAP-TAPSETSA, NORTH-EAST SLOPE OF MOUNT BAMBOUTO : IMPLICATIONS IN THE PETROGENESIS AND THE VOLCANIC ACTIVITY OF BAMBOUTO VOLCANOE (CAMEROON LINE)	A. KAGOU DONGMO	A. KAGOU DONGMO
SIVA-54-P	NEW PETROLOGICAL AND GEOCHEMICAL DATA IN THE ALKALINE COMENDITIC RHYOLITES OF THE MBEPIT MASSIF (NOUN PLAIN, CAMEROON LINE): WITNESS OF AN EXTRUSIVE VOLCANIC ACTIVITY DURING EOCENE	D. TCHOKONA SEUWUI	M.- J. BARDINTZEFF
SIVA-55-P	ACTIVE VOLCANOES OF KURILE ISLANDS, RUSSIA.	A. BELOUSOV	A. BELOUSOV
SIVA-56-P	GROWTH AND ERUPTION HISTORY OF UNZEN VOLCANO, JAPAN – RESULTS OF TWO FLANK DRILLINGS OF UNZEN SCIENTIFIC DRILLING PROJECT (USDP)	H. HOSHIZUMI	H. HOSHIZUMI
SIVA-57-P	VOLCANIC GEOLOGY OF THE QUATERNARY JEJU VOLCANIC ISLAND, KOREA	S.H. YUN	S. - H. YUN
SIVA-58-P	WORKING TOWARD A HIGH-PRECISION RECORD OF MT. TARANAKI ERUPTIONS AND ASHFALLS, NEW ZEALAND	M. TURNER	S. CRONIN
SIVA-59-P	PETROLOGICAL EVOLUTION IN ANDESITE VOLCANOES AND ITS ROLE IN HAZARDS ASSESSMENT	I. SMITH	I. SMITH
SIVA-60-P	STOCHASTIC MOLDELISATION OF VISCOELASTIC TURBULENCE AS SOURCE OF VOLCANIC TREMOR	S. ARAUJO	S. ARAUJO
SIVA-61-P	SEA-CALIPSO 'ONSHORE-OFFSHORE' SEISMIC EXPERIMENT TO IMAGE MAGMA RESERVOIR ON MONTSERRAT	B. VOIGHT	B. VOIGHT
SIVA-62-P	COMPLEX ERUPTION DYNAMICS IN A HAWAIIAN EXPLOSIVE ERUPTION: KILAUEA IKI 1959	W. STOVALL	W. STOVALL
SIVA-63-P	DYNAMICS OF A BASALTIC PLINIAN ERUPTION: MICROTTEXTURAL STUDIES OF FONTANA TEPHRA (MASAYA VOLCANO, NICARAGUA)	L. COSTANTINI	L. COSTANTINI
SIVA-64-P	DEGASSING PATHS PROVIDED BY THE AMOUNT AND DISTRIBUTION OF HYDROUS SPECIES IN VOLCANIC GLASSES FROM THE ASTRONI VOLCANO, CAMPI FLEGREI, ITALY	R. PETRINI	R. PETRINI
SIVA-65-P	ANALOGUE MODELLING OF CALDERA RESURGENCE IN EXTENSIONAL SETTINGS. COMPARISON TO ISCHIA ISLAND (ITALY) AND IMPLICATION FORECASTING.	E. MAROTTA	E. MAROTTA
SIVA=66-P	THE POMICI PRINCIPALI: A PLINIAN ERUPTION IN THE PAST 15 KA AT THE CAMPI FLEGREI CALDERA (ITALY)	L. CIVETTA	L. CIVETTA
SIVA-67-P	FUTURE ERUPTION SCENARIO OF PURACE VOLCANO, COLOMBIA	M.L. MONSALVE	M.L. MONSALVE
SIVA-68-P	THE INGV-ITALIAN CIVIL PROTECTION RESEARCH PROGRAM ON ITALIAN ACTIVE VOLCANOES: ALBAN HILLS VOLCANIC DISTRICT (CENTRAL ITALY)	C. FREDA	C. FREDA
SIVA69-P	POST-CALDERA ERUPTIVE HISTORY OF OKMOK VOLCANO, ALASKA	C. NEAL	C. NEAL
SIVA-70-P	THE IMPACTS OF PYROCLASTIC DENSITY CURRENTS ON BUILDINGS AT THE CATASTROPHIC ERUPTION OF NEVADO DEL RUIZ VOLCANO, COLOMBIA	M. CALVACHE	M. CALVACHE
SIVA-71-P	TRANSITIONAL DYNAMICS AND TRANSITIONAL DEPOSITS: THE EXAMPLE OF THE 800 BP QUILOTOA PLINIAN ERUPTION (ECUADOR)	A. DI MURO	A. DI MURO
SIVA-72-P	LINKING EXPLOSION INTENSITY AND MAGMA RHEOLOGY VIA ANALYSIS OF TEXTURES OF EJECTA FROM STROMBOLI VOLCANO IN 2002	N. LAUTZE	N. LAUTZE
SIVA-73-P	2005 ERUPTION OF BEZYMIANNY VOLCANO, KLYUCHEVSKAYA GROUP, KAMCHATKA, RUSSIA	O. GIRINA	O. GIRINA
SIVA-74-P	LAVA DOME OF VOLCANO SHEVELUCH (KAMCHATKA, RUSSIA) IN 2004-2005	N. GORBACH	N. GORBACH
SIVA-75-P	DEPOSITIONAL CHARACTERISTICS AND IMPLICATIONS FOR THE TRANSPORT MECHANISM OF THE 1792 DEBRIS AVALANCHE GENERATED BY THE COLLAPSE OF MAYUYAMA LAVA DOME, JAPAN	C. MELENDEZ	C. MELENDEZ
SIVA-76-P	THE 2004 ERUPTION AT ASAMA VOLCANO, CENTRAL JAPAN, AND THE ACTIVITY EVALUATION	S. NAKADA	S. NAKADA
SIVA-77-P	DEPOSITIONAL FEATURES AND TRANSPORT MECHANISM OF THE 1991-95 UNZEN BLOCK-AND-ASH FLOWS, JAPAN	S. TAKARADA	S. TAKARADA
SIVA-78-P	EJECTA OF THE 2004 ERUPTION IN ASAMA VOLCANO, CENTRAL JAPAN	M. YOSHIMOTO	M. YOSHIMOTO

## Symposium V: Risk Management--- Lower Level (Main Patio) Corridors of the Convent

POSTER CODE	Poster Title	FIRST AUTHOR	PRESENTER
SV-001-P	DE LA GESTIÓN DE DESASTRES A LA GESTIÓN DE RIESGO – ANÁLISIS DE LA PROBLEMÁTICA EXISTENTE EN LOS SISTEMAS DE RESPUESTA A DESASTRES	D. ARTEAGA	D. ARTEAGA
SV-002-P	VESUVIUS RISKS ASSESSMENT IN THE NATIONAL ALERT SYSTEM	G. BERTOLASO	CH. CARDACI
SV-003-P	EVIDENCES FOR POTENTIAL FUTURE SECTOR COLLAPSE AT VOLCANO ROCA REDONDA, NORTHERN GALAPAGOS – TECTONICS, SIMULATION AND CONSEQUENCES	M. CANDO	T. TOULKERIDIS
SV-004-P	RISK MANAGEMENT OF VOLCANIC CRISES IN QUITO'S METROPOLITAN AREA	M. DE LA CADENA	M. DE LA CADENA
SV-005-P	EXPECTED ERUPTIVE SCENARIO AT THE CAMPI FLEGREI CALDERA: THE LESSON FROM ASTRONI VOLCANO	P. DELLINO	ISAIA R.
SV-006-P	RISK MANAGEMENT: EXPERT JUDGEMENT EVOLUTION	C. FRISCHKNECHT	C. FRISCHKNECHT
SV-007-P	INCREASING VOLCANIC DISASTERS IN THE PHILIPPINES: TRACKING THE ROOT CAUSES OF VULNERABILITY	J-C GAILLARD	J.-C.GAILLARD
SV-008-P	RISK MANAGEMENT AT VOLCAN DE COLIMA MEXICO, 1997-2005: LESSONS LEARNED AND THE PROBLEM OF FORESCATING A PLINIAN ERUPTION	J.C.GAVILANES	J. C. GAVILANES
SV-009-P	EARLY PARTICIPATORY INTERVENTION FOR CATASTROPHE TO REDUCE ISLAND VULNERABILITY	K. HAYNES	K. HAYNES
SV-010-P	PREPARATION OF UPDATED VOLCANIC HAZARDS MAP FOR EL MISTI VOLCANO, PERU	J. MARIÑO	J. MARIÑO
SV-011-P	THE VILLARRICA VOLCANO HAZARDS MAP AND THE LAND USE PLANNING PROJECT WITHDRAWAL: AN EXCEPTIONAL CASE HISTORY IN CHILE	H. MORENO	H. MORENO
SV-012-P	SOME UNCERTAINTIES ASSOCIATED WITH FUTURE COTOPAXI LAHARS	P. MOTHEs	P. MOTHEs
SV-013-P	LAHARIC HAZARDS AT LAS CASCADAS VILLAGE, OSORNO VOLCANO, CHILE	J. MUÑOZ	J. MUÑOZ
SV-014-P	POSSIBLE ERUPTION SCENARIOS AT ISCHIA VOLCANIC ISLAND (ITALY), INFERRED FROM ITS PAST BEHAVIOUR AND PRESENT STRUCTURAL SETTING.	G. ORSI	E. MAROTTA
SV-015-P	BUILDING THE EXPERTS' KNOWLEDGE ABOUT RISK	M. PADLOG	M. PADLOG
SV-016-P	RISK MANAGEMENT AND REDEVELOPMENT AFTER VOLCANIC DISASTER: MODELING LONG-TERM RECOVERY SCENARIOS FOR MONTSERRAT	J. ROZDILSKY	J. ROZDILSKY
SV-017-P	VOLCANIC RISK ASSESSMENTS IN SAINT LUCIA ISLAND, LESSER ANTILLES: QUANTIFIED EVALUATION OF THE AFFECTED POPULATION AND ESTIMATION OF THE ECONOMICAL LOSSES	J. RUCH	J. RUCH
SV-018-P	HAZARDS AND RISK POSED BY A NEW CRATER LAKE AT WHITE ISLAND, NEW ZEALAND	B. SCOTT	B. SCOTT
SV-019-P	ASSESSING CURRENT VOLCANIC HAZARDS USING HISTORICAL ERUPTIONS: THE CASE OF TENERIFE	C. SOLANA	C. SOLANA
SV-020-P	INCLUDING LOW-FREQUENCY COMPOSITE VOLCANOES IN HAZARD ASSESSMENT STRATEGIES	A. SZAKACS	A. SZAKACS
SV-021-P	VULNERABILITY OF NORMAL OCCUPATION HOUSES BEFORE THE ASH FALL OF THE GALERAS VOLCANO	R. TORRES	R. TORRES
SV-022-P	VOLCANIC HAZARD MAP OF SUMACO, SUBANDEAN ECUADOR	T. TOULKERIDIS	T. TOULKERIDIS
SV-023-P	LONG- AND SHORT-TERM PROBABILISTIC ASSESSMENT FOR FUTURE ERUPTIONS OF COTOPAXI VOLCANO (ECUADOR)	J. AGUILAR	J. AGUILAR
SV-024-P	PROXIMAL VOLCANIC RISK ASSESSMENT FOR THE ROTORUA DISTRICT, NEW ZEALAND – A PROTOTYPE FOR THE REGIONAL RISKScape PROGRAM	G. KAYE	G. KAYE
SV-025-P	INTEGRATING HAZARD AND SOCIAL VULNERABILITY ANALYSIS IN VOLCANIC RISK ASSESSMENTS	S. HAYES	S. HAYES
SV-026-P	THE IMPACT OF MULTI-PHASE VOLCANIC ERUPTIONS. A FRAMEWORK FOR PROBABILISTIC FOR PROBABILISTIC MODELLING OF RISK	S. JENKIS	S. JENKIS
SV-027-P	TOWARDS ASCERTAINING VOLCANIC RISK TO INFRASTRUCTURE IN TARANAKI, NEW ZEALAND	V. NEALL	V. NEALL
SV-028-P	COMMUNITY EXPERIENCE INTEGRATED TO THE VOLCANOES MONITORING IN THE CAUCA STATE (COLOMBIA)	A. AGUDELO	B. PULGARIN
SV-029-P	RIESGO VOLCÁNICO Y LA PREPARACIÓN DE LA COMUNIDAD: LA EXPERIENCIA DEL VOLCÁN TUNGURAHUA	E. BARTOMIOLI	E. BARTOMIOLI

SV-030-P	THREE EFFECTIVE WAYS TO TEACH NATURAL HAZARDS: SCHOOL VISITS, VIDEO PRODUCTION, AND WEB SITES	D. BEVENS	D. BEVENS
SV-031-P	VOLCANIC HAZARD PUBLIC EDUCATION AND COMMUNICATION: THE EXPERIENCE DURING AND AFTER THE IAVCEI GENERAL ASSEMBLY 2004	J. CLAVERO	J. CLAVERO
SV-032-P	FROM SCIENTIFIC INVESTIGATION TO PUBLIC EDUCATION: THE ECUADORIAN EXPERIENCE	J-P EISSEN	J-P EISSEN
SV-033-P	EXPERIENCES OF THE PROCESS DECAPACITACION TO THE AFFECTED POPULATION FOR THE PROCESS ERUPTRIVO OF THE VOLCANO TUNGURAHUA	M. ESPINEL	M. ESPINEL
SV-034-P	VOLCANIC HAZARD AWARENESS EDUCATION, AND PREPAREDNESS OF TARANAKI SCHOOL STUDENTS	K. FINNIS	K. FINNIS
SV-035-P	IMPROVING VOLCANIC RISK COMMUNICATION BY RE-ASSESSING VOLCANIC HAZARD MAPS AT CAMPI FLEGREI AND STROMBOLI, ITALY.	R. ISAIA	R. ISAIA
SV-036-P	PARTICIPACION CIUDADANA EN LA GESTIÓN DE RIESGOS DEL VOLCAN COTOPAXI	X. JIJON	M. CAMPANA
SV-037-P	ASSESSING RISK COMMUNICATIONS FOR THE AWARENESS OF HAZARDS ASSOCIATED WITH INCREASED VOLCANIC ACTIVITY	A. MATIELLA	A. MATIELLA
SV-038-P	20 YEARS OF GEOLOGICAL HAZARDS EDUCATION FOR COLOMBIAN PEOPLE	R. MÉNDEZ	R. MÉNDEZ
SV-039-P	USING DELIBERATIVE AND INCLUSIVE PROCESSES TO BUILD PROACTIVE RESILIENCE IN VOLCANIC REGIONS	T. MITCHELL	T. MICHELL
SV-040-P	NEW METHODS IN SCIENCE COMMUNICATION TO IMPROVE PUBLIC EDUCATION AND COMMUNITY AWARENESS.	A. NAVE	A. NAVE
SV-041-P	RISK EDUCATION IN THE EUROPEAN PROJECT EDURISK: THE ITALIAN EXPERIENCE.	R. NAVE	R. NAVE
SV-042-P	CHRONICLE FOR A WELL PREPARED COMMUNITY: VOLCÁN TURRIALBA, COSTA RICA.	W. SÁENZ	W. SÁENZ
SV-043-P	THE ERUPTION OF NEVADO DEL RUIZ VOLCANO (COLOMBIA): EDUCATION AND PREVENTION 20 YEARS AFTERWARDS.	M. THOMAS	M. THOMAS
SV-044-P	NEW, EFFICIENT EDUCATIVE PREVENTION FOR ECUADOR'S VOLCANO COTOPAXI	T. TOULKERIDIS	T. TOULKERIDIS
SV-045-P	A PLAN FOR REDUCING THE VOLCANIC RISK OF VESUVIUS	F. BARBERI	F. BARBERI
SV-046-P	URBAN LANDSCAPE PLANNING AS A MITIGATION ALTERNATIVE TO REDUCE THE RISK FOR THE GALERAS VOLCANO REACTIVACION	D. CONTRERAS	D. CONTRERAS
SV-047-P	VOLCANIC HAZARDS ASSESSMENT IN CHILE: A NATIONAL STRATEGY FOR A LAND MANAGEMENT POLICY	L. LARA	L LARA
SV-048-P	ORDENAMIENTO TERRITORIAL COMO UNA ESTRATEGIA DE MITIGACIÓN DE DESASTRES EN LA PROVINCIA DE TUNGURAHUA - ECUADOR	S. ZAVGORODNIAYA	S. ZAVGORODNIAYA
SV-049-P	DIFFERING VIEWS OF THE SCIENTISTS' ROLE ON MONTSERRAT	K. HAYNES	K. HAYNES
SV-050-P	VISITING AND LIVING NEAR YASUR VOLCANO, TANNA ISLAND, VANUATU	P. BANI	
SV-051-P	REDUCING RISK FROM NATURAL DISASTERS THROUGH FOREIGN AID: STRATEGIES, PRIORITIES, LESSONS LEARNED	T. CALLAGHAN	T. CALLAGHAN
SV-052-P	LOWERING THE VULNERABILITY OF QUITO'S POTABLE WATER SUPPLY IN CASE OF AN ERUPTION OF COTOPAXI VOLCANO- ECUADOR	F. CRUZ	F. CRUZ
SV-053-P	GLOBAL STRATEGY FOR VOLCANIC RISK MITIGATION	H. GAUDRU	H. GAUDRU
SV-054-P	IMPACTS OF THE 1959 ERUPTION OF KILAUEA VOLCANO, KILAUEA IKI, HAWAII	C. GREGG	C. GREGG
SV-055-P	NEW MITIGATION TOOLS FOR COTOPAXI VOLCANO	M. HALL	M. HALL
SV-056-P	VOLCANIC RISK MITIGATION AND SUSTAINABLE DEVELOPMENT. APPLICATION TO MISTI AND UBINAS VOLCANOES IN SOUTH PERU.	G. LEVIEUX	G. LEVIEUX
SV-057-P	INTERAGENCY MANAGEMENT OF ASH HAZARDS TO AVIATION: LESSONS FROM THE NORTH PACIFIC	C. NEAL	C. NEAL
SV-058-P	WATER QUALITY PROTECTION AT TREATMENT PLANTS FROM VOLCANIC ASHFALL: THE EXPERIENCE OF EMAAP-Q DURING REVENTADOR'S ERUPTION- ECUADOR	F. OJEDA	F. OJEDA
SV-059-P	CHICHON VOLCANO, STATE OF CHIAPAS, MEXICO. THEIR MONITORING, ENVIRONMENTAL, AGRICULTURAL AND SOCIAL TRANSFORMATIONS TO 23 YEARS OF THEIR ERUPTION.	S. RAMOS	S. RAMOS
SV-060-P	MANAGEMENT SYSTEMS USED TO ASSESS AND MITIGATE RISKS FROM VOLCANIC CRATER LAKES IN NEW ZEALAND	B. SCOTT	B. SCOTT
SV-061-P	THE WATER SUPPLY OF QUITO THREATENED BY VOLCANIC ACTIVITY; CONSEQUENCES AND SOLUTIONS	T. TOULKERIDIS	T. TOULKERIDIS
SV-062-P	ENLIGHTENMENT ACTIVITIES FOR IMPROVEMENT ON DISASTERS FROM TARUMAE VOLCANO, JAPAN	T. UI	T. UI



SV-063-P	IMPACTS OF TEPHRA FALL ON A DAIRY FARMING OPERATION AT REREWHAKAAITU, EASTERN TAUPO VOLCANIC ZONE, NEW ZEALAND	T. WILSON	T. WILSON
SV-064-P	AN IMPACT MODEL FOR STRUCTURAL DAMAGE EVALUATION UNDER COMBINED VOLCANIC HAZARDS	G. ZUCCARO	G. ZUCCARO
SV-065-P	PREPARATION AND RESPONSE PROCEDURES BEFORE A LIKELY GALERAS VOLCANO ERUPTION	L. DORADO	L. DORADO
SV-066-P	EVACUATION AND RESETTLEMENT ISSUES FOLLOWING THE 1886 TARAWERA ERUPTION	K. FINNIS	K. FINNIS
SV-067-P	VOLCANIC RISK MANAGEMENT AND EVACUATION PLANNING FOR AUCKLAND VOLCANIC FIELD, NEW ZEALAND	V. PETERS	D. JOHNSTON
SV-068-P	FROM RISK TO OPPORTUNITY: INNOVATIVE TOURISM AT VESUVIUS, SOUTHERN ITALY.	A. NAVE	A. NAVE
SV-069-P	PROPOSED GEOTOPES TO PROMOTE TOURISM IN RECENT PYROCLASTIC CONE FIELDS, SOUTHERN MENDOZA-ARGENTINA	C. RISSO	C. RISSO
SV-070-P	VANDALISM ON INSTRUMENTS OF INGEOMINAS VOLCANO AND SEISMOLOGICAL OBSERVATORIES: A PROBLEM OF LACKING OF STRATEGIES OF COMMUNICATION?	F. GIL-CRUZ	F. GIL-CRUZ
SV-071-P	MAPA DE PELIGROS NATURALES DEL ECUADOR	R. CUESTA	R. CUESTA
SV-072-P	GAS HAZARD INDUCED BY UNCONTROLLED SHALLOW BOREHOLES IN THE ALBAN HILLS VOLCANIC AREA (ROME, ITALY)	F. BARBERI	M.L. CARPEZZA
SV-073-P	NATURE AND SIGNIFICANCE OF VOLCANIC TSUNAMIS	J.E. BEGET	B.H. KEATING
SV-074-P	TSUNAMI AWARENESS ON THE COAST OF NORTHERN CALIFORNIA	M. DAVIS	M. DAVIS
SIII-31-P	THE IMPACT OF MULTI-PHASE VOLCANIC ERUPTIONS: A FRAMEWORK FOR PROBABILISTIC MODELLING OF RISK	S. JENKINS	S. JENKINS
SIII-32-P	INTEGRATING HAZARD AND SOCIAL VULNERABILITY ANALYSIS IN VOLCANIC RISK ASSESSMENTS	S. HAYES	S. HAYES
SIII-33-P	PROXIMAL VOLCANIC RISK ASSESSMENT FOR THE ROTORUA DISTRICT, NEW ZEALAND – A PROTOTYPE FOR THE REGIONAL RISKScape PROGRAM	G. KAYE	G. KAYE

## Symposium VI: Emergency Management---Lower Level (Main Patio) Corridors of the Convent

Poster Code	POSTER TITLE	First Author	Presenter
SVI-01-P	EMERGENCY WARNING TIMES FROM SEISMIC PRECURSORS TO VOLCANIC ERUPTIONS	C. KILBURN	C. KILBURN
SVI-02-P	PROTECCIÓN CIVIL EN COLIMA: ESFUERZOS COORDINADOS	L.A. SALAZAR	L. A. SALAZAR
	SCIENCE, AUTHORITIES, COMMUNITY: KEY LINKS IN THE CHAIN OF DISASTER PREVENTION	C. SEGURA	C. SEGURA
SVI-04-P	RISK MANAGEMENT AND CONFORMATION OF LOCAL EMERGENCY COMMITTEES IN COTOPAXI PROVINCE-- LONG TERM PLANNING FOR A FUTURE ERUPTION OF COTOPAXI VOLCANO-ECUADOR	O. NAVAS	O. NAVAS
SVI-05-P	SPEAKING WITH ONE VOICE--CONDUCTING A JOINT INFORMATION CENTER (JIC) DURING VOLCANIC CRISIS	C. DRIEDGER	C. DRIEDGER
SVI-06-P	INCIDENT MANAGEMENT OF VOLCANIC ERUPTIONS USING THE INCIDENT COMMAND SYSTEM	D. JOHNSON	D. JOHNSON
SVI-07-P	SISTEMA DE MANEJO DE EMERGENCIAS Y DEASTRES	M. BÁEZ	M. BÁEZ
SVI-08-P	KAMCHATKA VOLCANIC ERUPTION RESPONSE TEAM (PROJECT KVERT).	O. GIRINA	S. USHAKOV
SVI-09-P	ALERT LEVELS IN RELATION WITH GALERAS VOLCANIC ACTIVITY	D. GOMEZ	D. GOMEZ
SVI-10-P	IMPLEMENTATION OF A VOLCANO EARLY WARNING SYSTEM FOR BAÑOS-TUNGURAHUA, ECUADOR	C. INTRIAGO	C. INTRIAGO
SVI-11-P	REVENTADOR VOLCANO 2004 RENEWED ACTIVITY. MONITORING ACTIVITIES AND EARLY WARNING ALERT	P. RAMON	P. RAMON
S-VI-12-P	IMPLEMENTACIÓN DE UN SISTEMA DE ALERTA PARA EVITAR DAÑOS POR LA PRESENCIA DE FLUJOS DE LODO A CONSECUENCIA DE LA ACTIVIDAD DEL VOLCÁN TUNGURAHUA	M. MONTESDEOCA	M. MONTESDEOCA

SVI-13-P	LAHAR HAZARDS; EDUCATION FOR EVACUATION, MOUNT RAINIER HAZARDS FOR ORTING SCHOOL DISTRICT, WASHINGTON STATE, USA	J. ANDERSON	J. ANDERSON
SVI-14-P	INFORMATION VS. DESINFORMATION DURING VOLCANIC EMERGENCIES	E. ANDRADE	E. ANDRADE
SVI-15-P	THE ROLE OF VOLCANOLOGICAL OBSERVATORY OF PASTO ABOUT HAZARD AND MONITORING AT GALERAS	R. TORRES	R. TORRES
SVI-16-P	THE POWER OF COMMUNICATING FOR THE VOLCANO-- EXPERIENCES OF A LOCAL RADIO STATION--BAÑOS, TUNGURAHUA, ECUADOR	J.L. BARRERA	J.L. BARRERA
SVI-17-P	MITIGATION STRUCTURES AND EARLY ALERT SYSTEM AT ECUADOR'S COTOPAXI VOLCANO	T. TOULKERIDIS	T. TOULKERIDIS
SVI-18-P	CAPACITATION OF POPULATIONS IN HIGH RISK VOLCANIC AREAS IN PICHINCHA PROVINCE- ECUADOR	M. FLORES	M. FLORES
SVI-19-P	USING GIS TO ASSESS THE PROBABILITY OF LAVA FLOW HAZARDS FROM MAUNA LOA, HAWAII	F. TRUSDELL	F. TRUSDELL
SVI-20-P	CUVA(COTOPAXI AN ACTIVE VOLCANO) AN EMPOWERING TOOL	M.J. ANDRADE	M.J. ANDRADE
SVI-21-P	EVACUATION, SIMULATION IN HIGH RISK VOLCANIC AREAS GALERAS VOLCANO, PASTO, COLOMBIA	D. GOMEZ	D. GOMEZ
SVI-22-P	USAID OFFICE OF FOREIGN DISASTER ASSISTANCE'S RESPONSES AND MITIGATION EFFORTS AT VOLCANOES AROUND THE WORLD	G. MAYBERRY	G. MAYBERRY
SVI-23-P	RELOCATION OF TANGATAWHENUA WITHIN A DEVELOPED NATION IN RESPONSE TO A VOLCANIC THREAT – THE CASE OF THE NEW ZEALAND MAORI.	S. WILLIAMS	S. WILLIAMS
SVI-24-P	EMERGENCY RESPONSE TO VOLCANIC ERUPTIONS BY THE INTERNATIONAL CHARTER 'SPACE AND MAJOR DISASTERS'	A. MAHMOOD	A. MAHMOOD
SVI-25-P	RISK ASSESSMENT AND LOSS MANAGEMENT DURING THE FIRST TWO YEARS OF THE SOUFRIERE HILLS VOLCANO CRISES	L. LYNCH	L. LYNCH
SVI-26-P	FROM UNREST TO ERUPTION IN LESS THAN 3 WEEKS--THE 2004-2005 ERUPTION OF MOUNT ST. HELENS, USA	C. GARDNER	C. GARDNER
SVI-27-P	THE ACTIVITY OF VOLCAN DE FUEGO DE COLIMA, MÉXICO, AND THE VOLCANIC EMERGENCY MANAGEMENT	M. BRETÓN	M. BRETÓN
SVI-28-P	HAZARDS TO SHIPPING FROM PYROCLASTIC FLOWS CROSSING WATER	P. CRAGG	P. CRAGG

## Symposium VIII:--- History, Archaeology, and Legends --Lower Level (Main Patio) Corridors

Poster Code	POSTER TITLE	First Author	Presenter
SVIII-01-P	AFRAID OF THE DARK: ORAL TRADITIONS AS A MECHANISM FOR COPING WITH VOLCANIC DISASTERS	K. CASHMAN	K. CASHMAN
SVIII-02-P	THE CULTURAL WORLD OF THE VOLCANOES	M. PADLOG	M. PADLOG
SVIII-03-P	THE ERUPTION OF TSEAX VOLCANO, BRITISH COLUMBIA: CANADA'S MOST DEADLY GEOLOGICAL DISASTER	C. HICKSON	C. HICKSON
SVIII-04-P	MULTIDISCIPLINARY APPROACH TO GET A NEW INSIGHT OF THE HISTORICAL ERUPTIVE ACTIVITY OF ETNA, ITALY	P. DEL CARLO	P. DEL CARLO
SVIII-05-P	ARCHEOMAGNETIC DATING OF RECENT ERUPTIONS FROM VULCANO AND VULCANELLO ISLANDS, ITALY	S. ARRIGHI	JC. TANGUY
SVIII-06-P	ARCHAEOLOGICAL DATING AT ISCHIA (SOUTHERN ITALY)	C. PRINCIPE	C. PRINCIPE
SVIII-07-P	GEOLOGIC EVIDENCE OF VOLCANIC TSUNAMIS FROM AUGUSTINE VOLCANO, ALASKA, COMPARED TO COMPUTER MODELLING, HISTORIC RECORDS, AND GEOARCHEOLOGY	J. BEGET	J. BEGET
SVIII-08-P	NEW EVIDENCE FOR A DEVASTATING ERUPTION IN AD 1640 AT TUNGURAHUA VOLCANO, ECUADORIAN ANDES	J-P. LE PENNEC	J-P. LE PENNEC
SVIII-09-P	LITHIC RESOURCES EXPLOITATION DURING THE PRE-EUROPEAN PERIOD IN GRAN CANARIA (CANARY ISLANDS, SPAIN): THE MINES OF THE HOGARZALES MOUNTAIN	E. MARTIN	J. MANGAS
SVIII-10-P	TESTIMONIES FOR QUATERNARY VOLCANIC ACTIVITIES OF TURKEY	E. AYDAR	E. AYDAR
SVIII-11-P	YOUNG VOLCANISM IN CAPPADOCIA (CENTRAL TURKEY): RELATIONS WITH ARCHAEOLOGICAL SITES, HAZARD ASSESSMENTS	A. GOURGAUD	A. GOURGAUD
SVIII-12-P	SOCIAL REPERCUSSIONS OF VOLCANIC ERUPTIONS	J. EGRED	J. EGRED
SVIII-13-P	SIGNIFICANCE OF THE QUILOTOA ASH FALL (800 YBP) AT ARCHAEOLOGICAL SITES IN NORTH-CENTRAL ECUADOR	P. MOTHES	P. MOTHES

SVIII-14-P	VOLCANIC IMPEDIMENTS TO THE DEVELOPMENT OF PRE-COLUMBIAN CULTURES IN THE ANDEAN HIGHLANDS OF ECUADOR	M. HALL	M. HALL
SVIII-15-P	CULTURAL OCCUPATION SEQUENCE FROM THE FORMATIVE PERIOD (3000 BC) UP TO THE INTEGRATION PERIOD (1500 AD) AND THE INTERCALATED VOLCANIC ASHES: IMPLICATIONS OF THE STRATIGRAPHIC ANALYSIS AT TONSUPA, (ATACAMAS) ESMERALDAS PROVINCE-- NORTHERN COAST OF ECUADOR	M. VILLALBA	M. VILLALBA
SVIII-16-P	EVALUATION OF HISTORIC AND PRE-HISTORIC ERUPTIONS USING DENDROCHRONOLOGY	L. SCUDERI	L. SCUDERI
SVIII-17-P	VOLCANIC HAZARD EVALUATION IN THE NEAPOLITAN AREA: EVIDENCE FROM PAST ERUPTIONS, SCENARIOS, AND MODELLING	G. MASTROLORENZO	G. MASTROLORENZO



## COV4 Meeting Schedule- Thursday, 26 January, 2006

8H30 - 9H00	<b>Plenary Symposium V: Risk Management</b> <b>Chris Newhall</b> INTEGRATING VOLCANO MONITORING, PHYSICAL IMPACTS AND HUMAN RESPONSES INTO RISK ASSESSMENT		
9H00-9H30	<b>Plenary Symposium V: Risk Management</b> <b>Angeles Arenas</b> EL RIESGO COMO FACTOR EN LA SOSTENIBILIDAD DEL DESARROLLO: EL CASO DE LOS VOLCANES		
	<b>Sala 1 (large)</b>  <b>V: Risk Management</b>  <b>Chairs: C. Newhall &amp; W. Aspinall</b>	<b>Sala 2 (medium)</b>  <b>IV-A: Volcano Studies Continuation</b> <b>Chairs: M. Coltelli, P. Ramón, J.-P. Eissen, S. de la Cruz</b> <b>P. SAMANIEGO:</b> PETROLOGICAL MONITORING OF THE 2002-2005 ERUPTION OF REVENTADOR VOLCANO	<b>Sala 3 (small)</b>  <b>VIII: History, Archaeology and Legends</b> <b>Chairs: K. Cashman &amp; G. Giordano</b> <b>S. Moreno:</b> DE LA DIOSA VOLCÁNICA A LA SEÑORA DE AGUA SANTA: MITOS Y RITUALES EN LA TUNGURAHUA (ECUADOR). <b>D. Swanson:</b> PELE LEGENDS MERGE WITH ORAL HISTORY TO DESCRIBE 400 YEARS OF KILAUEA'S ACTIVITY
9H30 - 9H50	<b>R. D' Ercole:</b> VOLCANIC RISK PERCEPTION: COMPARING PUBLIC PERCEPTION MAPS AND SCIENTIST'S HAZARD MAPS	<b>P. SAMANIEGO:</b> PETROLOGICAL MONITORING OF THE 2002-2005 ERUPTION OF REVENTADOR VOLCANO	<b>S. Moreno:</b> DE LA DIOSA VOLCÁNICA A LA SEÑORA DE AGUA SANTA: MITOS Y RITUALES EN LA TUNGURAHUA (ECUADOR). <b>D. Swanson:</b> PELE LEGENDS MERGE WITH ORAL HISTORY TO DESCRIBE 400 YEARS OF KILAUEA'S ACTIVITY
9H50-10H10	<b>M. Daly:</b> MEASURING COMMUNITY RESILIENCE IN AUCKLAND, NEW ZEALAND	<b>R. Gertisser:</b> VOLCANIC HAZARDS AT MERAPI, CENTRAL JAVA, INDONESIA: INFERENCES FROM THE VOLCANO'S PAST HISTORY	<b>D. Swanson:</b> PELE LEGENDS MERGE WITH ORAL HISTORY TO DESCRIBE 400 YEARS OF KILAUEA'S ACTIVITY
10H10 - 10H30	<b>W. Aspinal:</b> SCIENTIFIC PARTICIPATION IN A VOLCANIC CRISIS: PERSPECTIVES, CHALLENGES AND EXPERIENCIAS MONSERRAT	<b>C. Matthews:</b> A FRACTURE-MECHANICAL MODEL OF PRE-ERUPTIVE SEISMICITY: APPLICATION TO TOKYO'S THREAT FROM MT. FUJI	<b>R. Blong:</b> AN ERUPTION ON TIMOR IN 1638 – SEPARATING FACT FROM FICTION
10H30-11H00	<b>COFFEE BREAK</b>		
11H00-11H20	<b>W. Marzocchi:</b> BET-VH:A PROBABILISTIC TOOL FOR LONG AND SHORT TERM VOLCANIC HAZARD	<b>N. Geshi:</b> CALDERA COLLAPSE AND PHREATOMAGMATIC ERUPTIONS DURING THE 2000 AD ACTIVITIES OF MIYAKEJIMA VOLCANO, IZU-BONIN VOLCANIC ARC, JAPAN	<b>M. Rosi:</b> THE CRITICAL REVIEW OF THE 1631 ERUPTION FROM THREE LATIN-WRITTEN, CONTEMPORARY TREATISES: LESSONS FOR A NEXT ERUPTION AT VESUVIUS
11h20 - 11H40	<b>C. Magill:</b> VOLCANZ- VOLCANIC LOSS MODEL FOR NEW ZEALAND	<b>R. Scandone:</b> MAGMA ASCENT, PRECURSORS AND ERUPTION DYNAMICS AT MT ST HELENS BETWEEN 1980 AND 1986	<b>M. DiVito:</b> MAN AND VOLCANOES: 8,000 YEARS OF COEXISTENCE IN THE CAMPANIAN REGION (ITALY)
11H40-12H00	<b>A. Nave:</b> PUBLIC EDUCATION IN THE NATIONAL PARK OF VESUVIUS	<b>J. Keller:</b> HISTORICAL ACTIVITY AND VOLCANIC HAZARD AT OLDOINYO LENGAI, TANZANIA	<b>G. Heiken:</b> WHERE WERE THE RESIDENTS OF AKROTIRI DURING THE BRONZE AGE ERUPTION OF THIRA, GREECE?
12H00-12H20	<b>H. Okada:</b> DECADES OF LONG CULTURAL ACTIVITIES FROM VOLCANIC HAZARD MANAGEMENT	<b>I. Savov:</b> VULCANIAN-STYLE ERUPTIONS AT VOLCAN COLIMA (MÉXICO): INSIGHTS FROM PETROLOGICAL MONITORING FOR THE PERIOD 1999-2005	<b>K. Rodolfo:</b> THE 800 – 500 Y BP ERUPTION OF MT. PINATUBO, PHILIPPINES, AND ITS AFTERMATH: HYPOTHESES FROM THE ARCHAEOLOGICAL AND GEOGRAPHICAL RECORDS
12H20-14H00	<b>Lunch in Iglesia San Agustín</b>		

- 14H00 - 14H30 **Sala 1—Plenary Symposium V: History, Archaeology and Legends**  
**K. Cashman:** VOLCANOES AND HUMAN HISTORY(10 Min)
- G.Giordano:** THE RECENT ACTIVITY OF THE LAKE ALBANO MAAR (COLLI ALBANI VOLCANO, ROMA, ITALY): INTEGRATION OF GEOLOGICAL, ARCHAEOLOGICAL AND HISTORICAL DATA (20 Min)
- V: Risk Management-Cont.                      IV-A: Volcano Studies-Cont.                      VIII: History, Archaeology, and Legends-Cont.**
- Chairs : F. Muñoz & J. Pallister                      Chairs: M. Coltelli, P. Ramón, J.-P. Eissen, S. de la Cruz                      Chairs: K. Cashman & G. Giordano**
- 14H30-14H50 **M. Guffanti:** THE HIGH STAKES OF MITIGATING THE VOLCANIC ASH THREAT TO AVIATION                      **S. Keiffer:** VOLCAN REVENTADOR'S UNUSUAL UMBRELLA                      **M. Ort:** EFFECTS OF CINDER-CONE ERUPTIONS ON HUMAN POPULATIONS IN SOUTHWESTERN NORTH AMERICA
- 14H50-15H10 **J. Alvarez:** DE LA VULNERABILIDAD EXTREMA AL DESARROLLO DE FORTALEZA A TRAVES DE LA ORGANIZACION COMUNITARIA: EL CASO DE PENIPE, ECUADOR, FRENTE A LA ERUPCION DEL TUNGURAHUA                      **J. Calkins:** GROUND-BASED THERMAL OBSERVATIONS OF TWO LAVA LAKES, EREBUS VOLCANO, ROSS ISLAND, ANTARCTICA                      **V. Neall:** 40 KA OF HUMAN OCCUPATION WITH ATTENDANT VOLCANISM IN WEST NEW BRITAIN, PAPUA NEW GUINEA
- 15H10-15H30 **M.Jara:** LA FORTUNA: VOLCANIC TOWN, COSTA RICA. TOURIST DEVELOPMENT CONSISTENT WITH SETTLER'S PERSONAL SAFETY                      **J. Lees:** DYNAMICS OF GAS-ROCK INTERACTION AT ERUPTING VOLCANOES                      **S. Tapuka:** WORKING EFFECTIVELY WITH TANGATA WHENUA IN VOLCANIC RISK MANAGEMENT IN AOTEAROA-NEW ZEALAND.
- 15H30-15H50 **I. Segura:** PUERTO OCTAY TOWN, CHILE, AN EXPERIENCE OF THE COMMUNITY PARTICIPATION                      **S. De la Cruz:** REGIONAL STRESS CHANGES TRIGGERING AN ERUPTION OF TUNGURAHUA VOLCANO                      **J. Zeidler:** MODELING CULTURAL RESPONSES TO VOLCANIC DISASTER IN THE JAMA-COAQUE II CULTURE, COASTAL ECUADOR
- 15H40-16H10 **I. Kelman:** LIVING WITH VOLCANOES: A FRAMEWORK FOR ANALYZING VOLCANO-RELATED OPPORTUNITIES                      **J. Sable:** CAUSES FOR SIMULTANEOUS CONTRASTING ERUPTIVE STYLES DURING THE TARAWERA 1886 ERUPTION INFERRED FROM CHEMICAL AND TEXTURAL CHARACTERISTICS OF THE DEPOSITS                      **Panel Discussion**
- 16H10-18H00 **Poster Session #2: NEW COMPUTATIONAL TECHNIQUES & VOLCANO STUDIES (Upper Corridors); RISK MANAGEMENT, EMERGENCY MANAGEMENT & ARCHAEOLOGY (Main Patio Corridors) w/ Beverages and Snacks §**
- 18H00- **Return to Hotels**
- 19H00- **Evening Activities in Hotel Quito:** NOVAC-2 & JVGR Special Publication meetings-- For more details see Workshops and Other Activities Program



## COV4 Meeting Schedule- Friday, 27 January, 2006

8H30	<b>Plenary Symposium VI: Emergency Management</b> <b>T. Casadevall:</b> HOW CITIES HANDLE MAJOR DIASTERS: LESSONS FROM THE 2004 ASIAN TSUNAMI AND THE 2005 HURRICANE SEASON	
9H00 - 9H30	<b>Plenary Symposium VI: Emergency Management</b> <b>P. Dunkley:</b> PROBLEMS AND LESSONS LEARNED AT THE SOUFRIÈRS HILLS VOLCANO, MONTSERRAT	
9H30 - 10H00	<b>Plenary Symposium III: New Computational Techniques for Mitigating Volcanic Hazards</b> <b>M. Sheridan:</b> THE TITAN PROJECT: COMPUTATIONAL MODELLING OF GRANULAR AND WET MASS FLOWS FOR VOLCANIC HAZARDS APPLICATIONS	
10H00 - 11H20	<b>Poster Session #2 Continued: NEW COMPUTATIONAL TECHNIQUES &amp; VOLCANO STUDIES (Upper Corridors); RISK MANAGEMENT, EMERGENCY MANAGEMENT &amp; ARCHAEOLOGY (Main Patio Corridors) w/ Beverages§</b>	
	<b>Sala 1 (large)</b>	<b>Sala 2 (medium)</b>
	<b>VI: Emergency Management</b>	<b>III: New Computational Techniques for Mitigating Volcanic Hazards</b>
	<b>Chairs: M. Calvache &amp; P. Dunkley</b>	<b>Chairs: M. Sheridan, S. Schilling, G. Falorni, K. Kelfoun &amp; P. Samaniego</b>
11H20 - 11H40	<b>C. R. J. Kilburn:</b> HAZARD AWARENESS AMONG DECISION MAKERS AT VOLCANOES IN RESPONSE: THEORY AND PRACTICE	<b>T. Esposti-Ongaro:</b> A NEW HIGH-PERFORMANCE 3D MULTIPHASE FLOW CODE FOR THE SIMULATION OF COLLAPSING COLUMNS AND VOLCANIC BLASTS
11H40 - 12H00	<b>M. Davis:</b> AWARENESS OF VOLCANIC HAZARDS AND PERCEPTIONS OF RISK IN COMMUNITIES SURROUNDING ETNA AND VESUVIO, ITALY	<b>M.V. Avolio:</b> A COMPUTATIONAL METHOD FOR MODELLING AND SIMULATING LAVA FLOWS AND PYROCLASTIC FLOWS BY CELLULAR AUTOMATA
12H00-12H20	<b>I. Itikarai:</b> VOLCANO EMERGENCY MANAGEMENT IN PAPUA NEW GUINEA SINCE THE DESTRUCTIVE 1994 RABAUL ERUPTION	<b>A. Vicari:</b> SIMULATIONS OF LAVA FLOWS AT ETNA VOLCANO USING CA AND SPH MODELS
12H20 - 14H00	<b>Lunch in Convento San Francisco</b>	
	<b>VI: Emergency Management-Cont.</b>	<b>III: New Computational Techniques for Mitigating Volcanic Hazards-Cont.</b>
	<b>Chairs: H. Yepes &amp; C. Gardner</b>	<b>Chairs: M. Sheridan, S. Schilling, G. Falorni, K. Kelfoun &amp; P. Samaniego</b>
14H00- 14H20	<b>A. Scalzo:</b> STROMBOLI VOLCANO (ITALY): FROM THE MANAGEMENT OF THE 2002-2003 ERUPTIVE CRISIS TO THE BIRTH OF A PERMANENTLY OPERATING CIVIL PROTECTION SYSTEM, ON THE ISLAND.	<b>S. Schilling:</b> LAHARZ: A STATISTICALLY-BASED APPROACH TO FORECAST INUNDATION BY LAHARS.
14H20-14H40	<b>S. Aramaki:</b> STRATEGY OF VOLCANIC DISASTER MITIGATION IN JAPAN: CO-ORDINATION BETWEEN CIVIL DEFENSE AUTHORITIES AND COMMUNICATION BETWEEN SCIENTISTS AND ADMINISTRATION	<b>M. Morrissey:</b> SPATIAL AND TEMPORAL EVOLUTION OF RAIN-INDUCED LAHAR INITIATION

14H40-15H00	<b>S. Bailey:</b> INTEGRATING EMERGENCY RESPONDERS AND SCIENTISTS INTO THE EMERGENCY RESPONSE PLAN AT MOUNT RAINIER, WASHINGTON, USA	<b>G. Falorni:</b> SIMULATING LAHARS AT COTOPAXI VOLCANO: A COMPARISON OF MODELS
15H00 - 15H20	<b>C. Barnes:</b> PSYCHOSOCIAL EFFECTS OF THE MONTserrat VOLCANIC ERUPTION AND COPING: SOME REFLECTIONS 10 YEARS ON	<b>K. Kelfoun:</b> STRUCTURES AND DYNAMICS OF THE SOCAMPA ROCK AVALANCHE, CHILE: IMPLICATIONS FOR GEOPHYSICAL FLOW SIMULATIONS
15H20-15H50	<b>COFFEE BREAK</b>	
15H50-16H10	<b>C. Gardner:</b> NEW ALERT-LEVEL SYSTEM FOR U.S. VOLCANO OBSERVATORIES	<b>C. Connor:</b> INVERSION IS THE SOLUTION TO DISPERSION: MODELING TEPHRA FALLOUT
16H10-16H30	<b>S. Williams:</b> PLANNING FOR WELFARE ISSUES IN A LARGE-SCALE LONG-TERM EVACUATION IN RESPONSE TO A VOLCANIC THREAT – THE CHALLENGES TO NEW ZEALAND.	<b>T. Hinks:</b> BAYESIAN BELIEF NETWORKS FOR VOLCANO HAZARD FORECASTING AND DECISION SUPPORT
16H30- 16H50	<b>R. Delgado:</b> LIVING ALONG WITH AN ACTIVE VOLCANO (GALERAS, COLOMBIA)	<b>D. Cervelli:</b> AN INTEGRATED SUITE OF VOLCANO MONITORING DATA MANAGEMENT AND VISUALIZATION SOFTWARE
16H50-17H10	<b>J. Woodcock:</b> SUCCESS IN EMERGENCY MANAGEMENT: EMPOWERING CITIZENS TO PREPARE FOR AND RESPOND TO VOLCANIC HAZARDS	<b>K. Dean:</b> DEVELOPMENT AND IMPLEMENTATION OF VOLCANO SATELLITE-MONITORING DATABASE SYSTEM
17H10-	<b>Closing Session- Sala 1</b>	
17H40	<b>Return to Hotels in buses</b>	
19H30	<b>Depart from hotels in buses to La Capilla del Hombre-Guayasamin</b>	
20H00-22H00	<b>Buffet Meal -- La Capilla del Hombre- Guayasamin</b>	