

**Wednesday 21 September**



## Wednesday 21 September - AIR Room

8.50 - 9.50 **Opening Ceremony**

9.50 - 10.40 **Plenary Session - Chairs:** Robert Finkelman & Olle Selinus  
*José A. Centeno*  
 HEALTH AND EARTH - MEDICAL GEOLOGY BUILDING A SAFER ENVIRONMENT

**COFFEE BREAK 10.40-11.00**

## Wednesday 21 September –AIR Room Session ME2 – Oral Presentations

### AIRBORNE PARTICULATE MATTERS & MINERALS

**Conveners:** Meral Dogan & F. Javier Huertas

**Chairs:** Meral Dogan & F. Javier Huertas

- 11.00 ME2.Wed.L1  
 Heather Jaggard, Heather Jamieson, Suzette Morman, **Geoffrey Plumlee**  
 MINERALOGICAL CONTROLS ON LEAD BIOACCESSIBILITY IN TAILINGS DUST
- 11.30 ME2.Wed.L2  
 M. Elena Ramos, Chiara Cappelli, Marisa Rozalen, Saverio Fiore, **F. Javier Huertas**  
 DISSOLUTION OF SMECTITE IN SYNTHETIC LUNG FLUIDS. ROLE OF ORGANIC LIGANDS AND BIODURABILITY
- 11.50 ME2.Wed.L3  
**C. Ignacio Sainz-Diaz**, Cristina Iuga, Annik Vvier-Bunge  
 EFFECT OF SILICATE-SURFACES IN AEROSOL PARTICLES ON THE OXIDATION OF ATMOSPHERIC FORMIC ACID. A QUANTUM CHEMISTRY INVESTIGATION
- 12.10 ME2.Wed.L4  
**Alessandro Pacella**, Giovanni Battista Andreozzi, Jeanine Fournier, Lorenzo Stievano, Federica Giantomassi, Guendalina Lucarini, Armanda Pugnali  
 IRON TOPOCHEMISTRY, SURFACE REACTIVITY AND IN VITRO TOXICITY OF AMPHIBOLE ASBESTOS
- 12.30 ME2.Wed.L5  
**Michal Bucko**, Tadeusz Magiera, Bo Johanson, Eduard Petrovsky, Lauri Pesonen  
 IDENTIFICATION OF MAGNETIC PARTICULATES IN ROAD DUST ACCUMULATED ON ROADSIDE SNOW USING MAGNETIC, GEOCHEMICAL AND MICRO-MORPHOLOGICAL ANALYSES

**LUNCH 12.50-14.20**

**Chairs:** Meral Dogan & F. Javier Huertas

- 14.30 ME2.Wed.L6  
**Fernando Rocha**, Ana Quintela, Denise Terroso, J. Cardoso, Teresa Nunes, A. Caseiro, Casimiro Pio, Maria do Carmo Freitas  
 MINERAL COMPOSITION OF ATMOSPHERIC DUST IN SANTIAGO ISLAND, REPUBLIC OF CAPE VERDE: PRELIMINARY RESULTS OF CVDUST PROJECT

- 15.00 ME2.Wed.L7  
Patricia Oliveira, Bernardino Figueiredo, **Arnaldo Cardoso**  
ARSENIC, CADMIUM, COPPER AND LEAD IN ATMOSPHERIC PARTICULATE MATTER IN THE  
CENTRAL REGION OF SÃO PAULO STATE, BRAZIL
- 15.20 ME2.Wed.L8  
**Wawan Budianta**  
IMPACT OF 2010 MERAPI VOLCANIC ASH ERUPTION IN INDONESIA FOR WATER SUPPLIES
- 15.40 ME2.Wed.L9  
Akinlolu Abimbola, **Akinade Olatunji**  
GEOCHEMICAL EVALUATION OF HEAVY METAL CONCENTRATION OF AMBIENT PARTICULATE  
MATTER (PM10) AND SOILS OF SELECTED AREAS IN LAGOS METROPOLIS, NIGERIA

**COFFEE BREAK 16.00-16.20**

**Wednesday 21 September –AIR Room  
Session ME3 – Oral Presentations**

**MINERAL AS MEDICINE**

**Convener:** B.S. Paliwal

**Chairs:** Theo Davis & César Viseras Iborra

- 16.20 ME3.Wed.L1  
**Fernando Rocha**, Fionn MacGregor, Ana Quintela, Denise Terroso  
SEA WATER MATURATION OF HEALING CLAYS: MIOCENE SMECTITIC CLAYS FROM LISBON  
REGION (PORTUGAL)
- 16.50 ME3.Wed.L2  
**Mariana Rebelo**, Fernando Rocha, Eduardo Ferreira da Silva  
SUITABILITY OF PORTUGUESE CLAYS FOR MEDICAL HYDROLOGY APPLICATIONS
- 17.10 ME3.Wed.L3  
**Sandra Londoño**, Lynda Williams  
COMMON GEOCHEMICAL AND MINERALOGICAL CHARACTERISTICS AMONG ANTIBACTERIAL  
CLAY DEPOSITS
- 17.30 ME3.Wed.L4  
Ana Quintela, Denise Terroso, Salomè Almeida, António Correia, Eduardo Ferreira da Silva,  
Vitor Forjaz, **Fernando Rocha**  
MATURATION OF PORTUGUESE GEOMATERIALS FOR PELOOTHERAPY APPLICATION

## Wednesday 21 September –EARTH Room Session BB2 – Oral Presentations

### BIOMINERALISATION IN HUMAN BODY & ANALYSIS OF PATHOLOGICAL MINERAL DEPOSITS

**Conveners:** Félix Grases, Antonia Costa-Bauza, Rafael M. Prieto, Maria Luigia Giannossi

**Chairs:** Maria Luigia Giannossi & Felix Grases

- 11.00 BB2.Wed.L1  
Felix Grases, **Antonia Costa-Bauza**, Rafael M. Prieto, Isabel Gomila, Enrique Pieras, Otakar Söhnel  
CALCIUM PHOSPHATE RENAL CALCULI: FINE STRUCTURE, COMPOSITION, AND MECHANISM OF FORMATION
- 11.30 BB2.Wed.L2  
**Alireza Zarasvandi**, E. Mousapoor, S. Modabberi, M. Haidari  
RACE, TEMPERATURE AND WATER HARDNESS FACTORS AND DISTRIBUTION OF URINARY STONES, IN THE KHUZESTAN PROVINCE, IRAN
- 11.50 BB2.Wed.L3  
**Maria Luigia Giannossi**, Vito Summa  
TRACE ELEMENT INVESTIGATIONS IN KIDNEY STONES: A PILOT CASE IN BASILICATA (SOUTHERN ITALY)
- 12.10 BB2.Wed.L4  
Reinhard Moser, Reinhold Kerbl, Gerolf Schweintzger, **Federica Zaccarini**, Helmut Muehlhans, Ronald J. Bakker  
MORPHOLOGY AND COMPOSITION OF A PEDIATRIC SIALOLITH: AN ELECTRON MICROPROBE AND RAMAN SPECTROSCOPY INVESTIGATION
- 12.30 BB2.Wed.L5  
**Marco Lelli**, Elisabetta Foresti, Giorgio Isidoro Lesci, Marco Marchetti, Giuseppe Germanò, Carlo Salvarani, Norberto Roveri  
CHEMICAL PHYSICAL CHARACTERIZATION OF INORGANIC CRYSTALS IN HUMAN SYNOVIAL LIQUID

### LUNCH 12.50-14.20

**Chairs:** Antonia Costa-Bauza & Rafael M. Prieto

- 14.30 BB2.Wed.L6  
Bruno Baggio, Maria Luigia Giannossi, Luca Medici, **Vito Summa**, Fabio Tateo  
X-RAY MICRODIFFRACTION AND URINE: A NEW ANALYSIS METHOD OF CRYSTALLURIA
- 15.00 BB2.Wed.L7  
**Daria Kiseleva**, Sergey Votyakov, Yulia Mandra  
MICROELEMENT COMPOSITION AND STRUCTURE OF HUMAN TOOTH TISSUE BIOMINERAL PHASE
- 15.20 BB2.Wed.L8  
**Wen-An Chiou**, Dean Mason, Takahiro Ogawa  
TISSUE MINERALIZATION OF HYDROXYAPATITE

- 15.40 BB2.Wed.L9  
**Valentina Cottignoli**, Sara Mangialardo, Elena Cavarretta, Loris Salvador, Paolo Postorino, Adriana Maras  
INFRARED AND RAMAN STUDIES OF BIOAPATITE DEPOSITS IN HUMAN HEART VALVES

**COFFEE BREAK 16.00-16.20**

**Wednesday 21 September –EARTH Room  
Session BB1 – Oral Presentations**

**BIOPOLYMER CLAY NANOCOMPOSITES FOR MEDICINAL USES**

**Conveners:** César Viseras Iborra, Dimitris Papoulis, Stefano Loporatti

**Chairs:** Stefano Loporatti & Dimitris Papoulis

- 16.20 BB1.Wed.L1  
Giuseppe Cavallaro, Giuseppe Lazzara, **Stefania Milioto**  
BIONANOCOMPOSITES BASED ON NATURAL POLYMERS AND NANOCCLAYS. AN EXTENDED PHYSICO-CHEMICAL STUDY TO EVIDENCE THE ROLE OF THE POLYMER NATURE AND THE NANOCCLAY SHAPE
- 16.50 BB1.Wed.L2  
Viviana Vergaro, Elshad Abdullayev, Michele Sommariva, Andrea Balsari, Yuri M. Lvov, **Stefano Loporatti**  
HALLOYSITE CLAY NANOTUBES AS CARRIERS FOR SUSTAINED DRUG DELIVERY
- 17.10 BB1.Wed.L3  
**Miroslav Pospíšil**, Petr Kovàr  
MOLECULAR SIMULATION STUDY OF LDH INTERCALATED WITH PORPHYRINS
- 17.30 BB1.Wed.L4  
**Po- Hsiang Chang**, Jiin-Shuh Jean, Zhaohui Li, Wei-Teh Jiang  
THE RESEARCH OF ADSORPTION/DESORPTION BEHAVIOR BETWEEN CLAY MINERALS AND ANTIBIOTIC-TETRACYCLINE

## Wednesday 21 September –WATER Room Session ET11 – Oral Presentations

### MESOTHELIOMA INDUCING MINERALS

**Conveners:** A. Umran Dogan & Marina Musti

**Chairs:** A. Umran Dogan & Marina Musti

- 11.00 ET11.Wed.L1  
Alessandro Cavallo, **Bianca Rimoldi**, Meral Dogan, Ahmet Umran Dogan  
GEOLOGY AND HEALTH: THE HIGHLY CARCINOGENIC ERIONITE MINERAL AND THE NEED FOR A RISK ASSESSMENT IN ITALY
- 11.30 ET11.Wed.L2  
**Meral Dogan**  
CHARACTERIZATION OF MESOTHELIOMA INDUCING MINERAL ERIONITE BY TEM-EDS-SAED: SARIHIDIR VILLAGE, CAPADOCCIA, TURKEY
- 11.50 ET11.Wed.L3  
**Ahmet Umran Dogan**  
MESOTHELIOMA INDUCING MINERALS IN CAPPADOCIA: COMPLETE MINERAL CHARACTERIZATION BY SEM-EDS-XRD
- 12.10 ET11.Wed.L4  
**Tommaso Massaro**, Antonio Lettino, Armando Pinca, Gabriella Lucia Maria Martina, Antonio Baldassarre, Angelo Caputo, Marina Musti  
ASBESTOS RELATED PATHOLOGIES AMONG RESIDENT POPULATION ON CALABRIA-LUCANIA BORDER WITH ENVIRONMENTAL AND OCCUPATIONAL EXPOSURE TO TREMOLITE
- 12.30 ET11.Wed.L5  
**Tommaso Massaro**, Saverio Fiore, Silvano Dragonieri, Maria Carmela Grimaldi, Sabrina Pistillo, Gabriella Cauzillo, Marina Musti  
PLEURAL MALIGNANT MESOTHELIOMA AMONG RESIDENT POPULATION IN AREAS WITH NATURAL OCCURRING ASBESTOS ON CALABRIA-LUCANIA BORDER

**LUNCH 12.50-14.20**

## Wednesday 21 September –WATER Room Session ET10 – Oral Presentations

### METALS AND HEALTH IN MEDICAL GEOLOGY

**Conveners:** José A. Centeno

**Chairs:** José A. Centeno & Anne Kousa

- 14.30 ET10.Wed.L1  
**Dora Pearce**, Kim Dowling, Malcolm Sim  
SOIL ARSENIC AND MELANOMA: IS THERE A LINK?
- 15.00 ET10.Wed.L2  
**Anne Kousa**, Maria Nikkarinen, Sari Makkonen, Auri Koivuhuhta, Anne-Marja Nerg  
HI-TECH-METAL LITHIUM IN THE NATURAL ENVIRONMENT AND HEALTH ISSUES

- 15.20 ET10.Wed.L3  
**Maria Nikkarinen**, Anne Kousa, Sari Makkonen, Auri Koivuhuhta, Anne-Marja Nerg  
 ENVIRONMENTAL COBALT AND HEALTH
- 15.40 ET10.Wed.L4  
**Bertha Irene Juárez-Flores**, Maria Esther Jiménez-Cataño, Martha Eugenia Santoyo, J. Rogelio Aguirre-Rivera  
 EFFECTS OF EXPERIMENTAL METHYLMERCURY INTOXICATION: QUANTIFYING THE APOPTOTIC PROCESS IN BRAIN

**COFFEE BREAK 16.00-16.20**

**Wednesday 21 September –WATER Room  
 Session UM1 – Oral Presentations**

**RADIOECOLOGY AND ENVIRONMENTAL RADIOACTIVITY**

**Conveners:** Hiroshi Yasuda

**Chairs:** Cassio Roberto da Silva & Hiroshi Yasuda

- 16.20 UM1.Thu.L1  
**Werner Ruehm**, Vladimir Mares, Ulrich Ackermann, Christian Pioch  
 INTERACTION OF COSMIC RADIATION WITH THE SURFACE OF THE EARTH
- 16.50 UM1.Thu.L2  
**Naoki Matsuda**  
 ASSESSMENT OF INDIVIDUAL EXPOSURE DOSE IN HIGH BACKGROUND RADIATION AREA OF TAMIL NADU, INDIA
- 17.10 UM1.Thu.L3  
**Nicholas S. Lloyd**, C. Bouman, S. R. Chenery, R. R. Parrish  
 ISOTOPE RATIOS, ENVIRONMENTAL PROCESSES AND DEPLETED URANIUM EXPOSURE ASSESSMENT
- 17.30 UM1.Thu.L4  
**S. Srinivasalu**, B. Uma Maheswari, Babu Savithri, T. Subramani, B. Senthilkumar, R. Ramesh, V. Ram Mohan, L. Elango, M. P. Jonathan, P.D. Roy  
 IN SITU TERRESTRIAL GAMMA RADIATION IN SEVATTUR-SAMALPATTI CARBONATITE COMPLEXES, TAMIL NADU, INDIA
- 17.50 UM1.Thu.Out-of-Program  
**Pascal Dumont**  
 CANADA'S NEW RADON PROGRAM

**Wednesday 21 September –POSTER Room**  
**Sessions BB2, ET5, ET10, ET11, ME2, ME3, UM1, UM3[1°]**  
**Poster Presentations**

**Posting Time:** Wednesday 21 September; **Removal:** Thursday 22 September

**Attendance Time:** Wednesday 21 September, 17:50–20:00

**BB2 - Biomineralisation in Human Body and Analysis of Pathological Mineral Deposits**

- BB2.Wed.P1 Waltraud MOSER, Rudolf SCHRITTWEISER, **Federica ZACCARINI**, Helmut MUELHANS  
ELECTRON MICROPROBE STUDY ON INCLUSIONS IN GALLSTONE: PRELIMINARY RESULTS
- BB2.Wed.P2 **Donatella BARCA**, Mauro Francesco LA RUSSA  
HUMAN KIDNEY STONE STUDIES BY SEM/EDX AND LA-ICP-MS METHODS
- BB2.Wed.P3 **ALIREZA ZARASVANDI**, ESMAEL MOUSAPOOR, SOROUSH MODABBERTI, MAJID HAIDARI  
MAJOR AND TRACE ELEMENTS COMPOSITION OF THE URINARY STONES, KHUZESTAN PROVINCE, IRAN
- BB2.Wed.P4 **Rafel M. PRIETO**, Isabel GOMILA, Otakar SÖHNEL, Antonia COSTA-BAUZA, Oriol BONNIN,  
Felix GRASES  
STRUCTURE, COMPOSITION AND FORMATION MECHANISM OF AORTIC VALVE CALCIFIC DEPOSITS
- BB2.Wed.P5 **Antonio ZEMAN**, Michal SMID, Stepanka KUCKOVA, Tomas HAJEK, Richard ROKYTA  
A CONTRIBUTION TO THE STUDY OF PATHOLOGICAL BIOMINERALIZATION OF AORTIC VALVES

**ET5 - Toxic Kinetics & Fate of Pesticides in Biological Systems, Food & Environment**

- ET5.Wed.P1 Annalisa MARTUCCI, Mauro Andrea CREMONINI, Sonia BLASIOLI, Giorgio GATTI, Lara GIGLI,  
**Ilenia BRASCHI**  
ADSORPTION AND DEGRADATION OF SULFACHLOROPYRIDAZINE SULFONAMIDE ANTIBIOTIC INTO A HIGH SILICA MORDENITE
- ET5.Wed.P2 Sandra MEDICI, Juan MARIOLI, Gabriel SARLO, **Annamaria PERNA**, Emilio GAMBACORTA,  
Immacolata INTAGLIETTA, Amalia SIMONETTI, Gustavo VELIS, Martin EGUARAS  
DETERMINATION OF ACARICIDE RESIDUES IN BEESWAX
- ET5.Wed.P3 Pawe MARCINIAK, Zbigniew ADAMSKI, Katarzyna RADTKE, Agnieszka KOPICZKO, Kazimierz  
ZIEMNICKI, Grzegorz ROSISKI, Laura SCRANO, **Sabino A. BUFO**  
DIFFERENT PHYSIOLOGICAL EFFECTS OF PLANT-DERIVED GLYCOALKALOID EXTRACTS ON INSECTS
- ET5.Wed.P4 Zbigniew ADAMSKI, Mariola MIDOWICZ-KOBIELSKA, Ewa CHUDZISKA, Kazimierz ZIEMNICKI,  
Laura SCRANO, **Sabino A. BUFO**  
DIVERSE RESPONSE OF WILD AND MUTANT STRAINS OF DROSOPHILA MELANOGASTER TO SOLANACEAE ALKALOIDS
- ET5.Wed.P5 Eva MASCIARELLI, Claudio BENI, Paolo NAPOLITANO, **Elena STURCHIO**  
ESSENTIAL OIL TO REDUCE THE PESTICIDES USE

- ET5.Wed.P6 Zbigniew ADAMSKI, Pawe MARCINIAK, Katarzyna RADTKE, Agnieszka KOPICZKO, Kazimierz ZIEMNICKI, Grzegorz ROSISKI, Laura SCRANO, **Sabino A. Bufo**  
SOLANACEAE EXTRACTS AFFECT DEVELOPMENT AND REPRODUCTION OF  
SPODOPTERA EXIGUA MOTHS
- ET5.Wed.P7 **Laura SCRANO**, Claudia BELVISO, Filomena LELARIO, Saverio FIORE, Sabino A. BUFO  
WATER PURIFICATION BY USING DIFFERENT ORGANOCCLAY COMPLEXES

### ET10 - Metals and Health in Medical Geology

- ET10.Wed.P1 **Dariusz DOBRZYNSKI**, Ewa SLABY, Agata METLAK  
GERMANIUM GEOCHEMISTRY IN MINERAL GROUNDWATER FROM MOUNTAIN AREAS  
OF SOUTHERN POLAND - A CASE STUDY OF ITS AFFINITY TO OTHER ELEMENTS
- ET10.Wed.P2 **Reza MOHAJER**, M. Hassan SALEHI, Jahangard MOHAMMADI, Noraier TOOMANIAN, M.  
Hassan EMAMI  
HEAVY METALS CONTENT IN URBAN SOILS OF ISFAHAN, CENTRAL IRAN
- ET10.Wed.P3 **Arian AZHIDEH ARALLOU**, Amirhossein MOJTAHEDZADEH,  
STUDY OF THE MEDICAL GEOLOGY AND GEO HAZARDS IN WESTERN IRAN

### ET11 - Mesothelioma inducing Minerals

- ET11.Wed.P1 **Lothar VIERECK-GOETTE**, Petra LEPETIT , Michael KOCH, Manuela GRUBER, Ali GÜREL,  
Ibrahim ÇOPUROGLU, Halil GURSÖY, Orhan TATAR  
MESOTHELIOMA EPIDEMIC IN CAPPADOCIA/TURKEY: GEOLOGICAL MAPPING AS BASIS  
OF RISK ASSESSMENTS
- ET11.Wed.P2 **Caterina RINAUDO**, Maya MUSA, Alessandro CROCE, Mario ALLEGRINA, Donata BELLIS,  
Francesca TOFFALORIO, Giulia VERONESI  
MICRO-RAMAN SPECTROSCOPY AND VP-SEM/EDS TECHNIQUE APPLIED TO THE  
CHARACTERIZATION OF INORGANIC PARTICLES, FIBRES AND ASBESTOS BODIES IN  
HISTOLOGICAL SECTIONS USED FOR RESPIRATORY DISEASE DIAGNOSES.
- ET11.Wed.P3 **Imma MENDITTI**, Maria Rosaria GHIARA, Manuela ROSSI, Francesco CAPITELLI, Carmela PETTI  
POTENTIALLY CONTAMINATED SITES AT SOMMA-VESUVIUS COMPLEX
- ET11.Wed.P4 Michele MATTIOLI , **Ahmet Umran DOGAN**, Meral DOGAN, Cenni MARCO, Alberto RENZULLI,  
Bianca RIMOLDI, Alessandro TIBALDI  
PRELIMINARY INVESTIGATIONS OF SOME FIBROUS ZEOLITES WHICH MAY CAUSE  
ADVERSE HEALTH EFFECTS: A CASE STUDY FROM VOLCANIC ROCKS OF NORTHERN  
ITALY

### ME2 - Airborne Particulate Matters & Minerals

- ME2.Wed.P1 Serena TRIPPETTA, **Rosa CAGGIANO**, Saverio FIORE, Antonio LETTINO, Maria MACCHIATO,  
Serena SABIA  
CHEMICAL, MINERALOGICAL AND MORPHOLOGICAL CHARACTERIZATION OF FINE  
AEROSOL PARTICLES (PM 2.5) IN A SOUTHERN ITALIAN SITE

- ME2.Wed.P2 Marisa ROZALEN, **F. Javier HUERTAS**, Saverio FIORE, Fernando GERVILLA  
DISSOLUTION KINETICS OF TREMOLITE IN MIMICKED LUNG FLUIDS. EFFECT OF  
CITRATE AND OXALATE. PART 1: MACROSCOPIC STUDY
- ME2.Wed.P3 Marisa ROZALEN, **F. Javier HUERTAS**, Saverio FIORE, Fernando GERVILLA  
DISSOLUTION KINETICS OF TREMOLITE IN MIMICKED LUNG FLUIDS. EFFECT OF  
CITRATE AND OXALATE. PART 2:  
MICROSCOPIC STUDY
- ME2.Wed.P4 **Antonio LETTINO**, Rosa CAGGIANO, Saverio FIORE, Maria MACCHIATO, Serena SABIA,  
Serena TRIPPETTA  
EYJAFJALLAJÖKULL VOLCANIC ASH: INFLUENCE ON PM 2.5 MEASUREMENTS IN  
SOUTHERN ITALY
- ME2.Wed.P5 **Jesús PÁRRAGA**, Jose Luis DÍAZ, Rocío MÁRQUEZ, Julio CALERO, Juan Manuel MARTÍN-  
GARCÍA, Rafael DELGADO  
IBERULITES: COMPLEX AEROSOLS. POSSIBLE SHUTTLES FOR THE TRANSPORT OF  
BIOLOGICAL MATERIALS
- ME2.Wed.P6 Martino AMODIO, Eleonora ANDRIANI, Alessia DI GILIO, **Maria TUTINO**, Miriam INTINI,  
Jolanda PALMISANI, Gianluigi DE GENNARO, Paolo Rosario DAMBRUOSO  
IMPACT OF TARANTO INDUSTRIAL AREA ON THE AIR QUALITY OF THE URBAN AREA
- ME2.Wed.P7 **Lala ANDRIANAIVO**, Voahanginirina J. RAMASIARINORO  
IMPACTS OF URBAN POLLUTION ON UNDERPRIVILEGED POPULATION HEALTH: A  
CASE STUDY OF THE CITY OF ANTANANARIVO, CENTRAL MADAGASCAR
- ME2.Wed.P8 **Nosir SHUKUROV**  
METAL RICH AIRBORNE PARTICULATE MATTERS IN SURFACE SOILS OF ANGREN-  
ALMALYK MINING-INDUSTRIAL AREA, UZBEKISTAN
- ME2.Wed.P9 **Saverio FIORE**, Antonio LETTINO  
SINGLE-PARTICLE ANALYSIS OF ATMOSPHERIC INORGANIC AEROSOL IN THE  
BASILICATA REGION (SOUTHERN ITALY)
- ME2.Wed.P10 **Rocío MÁRQUEZ**, Jesús PÁRRAGA, Juan Manuel MARTÍN-GARCÍA, Gabriel DELGADO, Rafael  
DELGADO  
STUDY OF SOIL'S QUARTZ GRAINS AS A SOURCE OF POTENTIAL AIR POLLUTION
- ME2.Wed.P11 Joaquín BASTIDA, **F. Javier HUERTAS**, Rafael IBAÑEZ, Marek A. KOJDECKI, Pablo PARDO  
XRD AND FESEM CHARACTERIZATION OF CRYSTALLITES AND PARTICLES OF FINE  
POWDERS FROM KAOLIN PROCESSING

### ME3 - Minerals as Medicine

- ME3.Wed.P1 **Celso DE SOUSA FIGUEIREDO GOMES**  
ARE PELOIDS MEDICINES?
- ME3.Wed.P2 **Maria Virginia FERNANDEZ GONZALEZ**, Jesus PARRAGA MARTINEZ, Gabriel DELGADO  
CALVO- FLORES, Juan Manuel MARTIN GARCIA,  
BASES AND CATION EXCHANGE CAPACITY IN PELOIDS MATURED WITH MINERAL  
WATERS FROM THE PROVINCE OF GRANADA (SPAIN)

- ME3.Wed.P3 **Stanisa STOJILJKOVI**, Danijela STOJILJKOVI  
CLAY THERMOTHERAPY
- ME3.Wed.P4 **Miria BASCHINI**, Gisela PETTINARI, Jorge VALLÉS, Ana MONASTERIO, Juan GIMENEZ, Alberto LÓPEZ-GALINDO, César VISERAS, Massimo SETTI  
COPAHUE, ARGENTINA: MUD MATURATION FOR ITS POSSIBLE APPLICATION IN HUMAN HEALTH
- ME3.Wed.P5 **M. Rosa PENA FERREIRA**, Delfim SANTOS, João Baptista P. SILVA, M. Helena AMARAL, José Manuel SOUSA LOBO, Mariana BARROS, J. Hamilton C.A. GOMES, Celso S.F. GOMES  
DEVELOPMENT OF AN ANTI-CELLULITE PELOID CONTAINING BENTONITE OF PORTO SANTO ISLAND, MADEIRA ARCHIPELAGO
- ME3.Wed.P6 Delfim SANTOS, **Maria Helena AMARAL**, Maria GONÇALVES, José LOBO, Fernando ALMEIDA, Celso GOMES  
DEVELOPMENT, CHARACTERIZATION AND COMPARATIVE STUDY OF SILICONE-BASED FORMULATIONS CONTAINING BOTH POTASSIUM MICA AND TITANIUM DIOXIDE
- ME3.Wed.P7 **M. Rosa PENA FERREIRA**, Delfim SANTOS, João Baptista P. SILVA, M. Helena AMARAL, Sousa J.M. LOBO, J. Hamilton C.A. GOMES, Celso F.S. GOMES  
EFFICACY OF EXFOLIANT FORMULATIONS CONTAINING BIOGENIC CARBONATE SAND FROM PORTO SANTO ISLAND, MADEIRA ARCHIPELAGO
- ME3.Wed.P8 **Dimitris PAPOULIS**, Eleni ZAGANA, Eleni KOUTSOPOULOU, Persefoni ROUMELIOTI  
LEMNOS EARTH: QUALITY AND SUITABILITY FOR MEDICINAL USES
- ME3.Wed.P9 **Lala ANDRIANAIVO**, Voahanginirina J. RAMASIANORO,  
MEDICAL GEOLOGY IN MADAGASCAR: PRELIMINARY REVIEW
- ME3.Wed.P10 **Miriam BASCHINI**, María Eugenia ROCA JALIL, Diana ANDRADE, Carlos SORIA, Raul BARBAGELATA, Alberto LÓPEZ GALINDO, César VISERAS, Massimo SETTI  
MUDS AND SALTS FROM LAGUNA MAR CHIQUITA (OR MAR DE ANSENUZA), CORDOBA, ARGENTINA: NATURAL MATERIALS WITH THERAPEUTIC POTENTIAL USE
- ME3.Wed.P11 **Cesar VISERAS**, Rita SANCHEZ, Eva CAPILLA, Pilar CEREZO, Carola AGUZZI, Inmaculada SALCEDO  
PREFORMULATIVE STUDY OF CLAYEY SAMPLES TO BE USED AS HEALTH CARE MATERIALS
- ME3.Wed.P12 **Mariana REBELO**, Fernando ROCHA  
QUALIFICATION OF PORTUGUESE MINEROMEDICINAL WATERS FOR PELOOTHERAPY
- ME3.Wed.P13 **Manuel SÁNCHEZ-MARAÑÓN**, María Virginia FERNÁNDEZ- GONZÁLEZ, Rafael DELGADO CALVO- FLORES, Juan Manuel MARTÍN- GARCÍA, Julio CALERO GONZÁLEZ, Jesus Pàrraga MARTINEZ, Gabriel DELGADO CALVO- FLORES,  
SOIL QUALITY, SOIL HEALTH, HUMAN HEALTH
- ME3.Wed.P14 **Cesar VISERAS**, Rita SANCHEZ, Eva CAPILLA, Pilar CEREZO, Carola AGUZZI, Inmaculada SALCEDO  
USE OF CLAYEY SAMPLES IN THERMAL THERAPEUTIC MUDS

**UM1 - Radioecology and Environmental Radioactivity**

- UM1.Wed.P1 **Katalin Zsuzsanna SZABÓ, Dóra ZACHÁRY**, Zsuzsanna SZABÓ, Hedvig Éva NAGY  
<sup>228</sup>Ra, <sup>232</sup>Th AND 40K RADIONUCLIDE MEASUREMENTS IN SOIL SAMPLES OF HUNGARY
- UM1.Wed.P2 **Martin TONDEL**  
 EXPOSURE TO TERRESTRIAL GAMMA RADIATION IN WESTERN SWEDEN
- UM1.Wed.P3 **Ana NOGUERA**, Heinkel BENTOS PEREIRA, Laura FORNARO  
 NATURAL ENVIRONMENTAL RADIOACTIVITY IN VALIZAS RESORT, ROCHA, URUGUAY
- UM1.Wed.P4 **Thomas CAMPOS**, Reinaldo PETTA, Valeria PASTURA  
 RESIDENTIAL RADON AND THE RISK OF MALIGNITY: THE CASE OF LAGES PINTADAS CITY, NORTHEASTERN BRAZIL

**UM3 – Miscellaneous [1°]**

- UM3.Wed.P1 Marzie KHAZAI, Arezoo ABEDI, **Somayeh TABASI**  
 A STUDY ON HYDROGEOCHEMISTRY OF GROUNDWATER IN THE CHAHAR FARSAKH, SOUTH- EAST OF BIRJAND, IRAN
- UM3.Wed.P2 **Hans RUPPERT**, Torben SEIDEL, Juergen ORASCHE  
 EMISSIONS OF HARMFUL ELEMENTS AND ORGANIC POLLUTANTS FROM SMALL SCALE WOOD COMBUSTION SYSTEMS
- UM3.Wed.P3 **Rafael DELGADO CALVO-FLORES**, Juan Manuel MARTÍN GARCÍA, María Virginia FERNÁNDEZ GONZÁLEZ, Jesús PÁRRAGA MARTÍNEZ, Gabriel DELGADO CALVO- FLORES,  
 GEOPHARMACY: TEACHING MEDICAL GEOLOGY IN PHARMACEUTICAL SCIENCES
- UM3.Wed.P4 Gabriel DELGADO CALVO-FLORES, **Rocio MÁRQUEZ CRESPO**, Victor ARANDA, Jesús PARRAGA, Julio CALERO, Juan Manuel MARTÍN-GARCÍA, Rafael DELGADO CALVO- FLORES,  
 PRECIPITATION OF STRUVITE BY SOIL BACTERIA. A POSSIBLE IMPLICATION TO HUMAN HEALTH
- UM3.Wed.P5 **K'tso NGHARGBU**, Krzysztof SCHOENEICH, Solomon Ayodele ALAGBE, Theophilus Clavell DAVIES, Philip SHEKWOLO  
 QUALITY OF FORMATION WATER FROM THE NIGERIAN OIL FIELDS FOR BALNEOTHERAPY
- UM3.Wed.P6 **E. BUTENKO**, A. KAPUSTIN  
 REMOVAL OF PHENOLS FROM WATER BY USE OF LAYERED DOUBLE HYDROXIDES
- UM3.Wed.P7 **Santina GIANDOMENICO**, Cristina ANNICCHIARICO, Marco MAGGI, Antonella DI LEO, LUIGI LOPEZ, Lucia SPADA, Nicola CARDELLICCHIO ,  
 SIMULTANEOUS DETERMINATION OF PHARMACEUTICAL COMPOUNDS IN ENVIRONMENTAL SAMPLES BY SPE AND GC-MS
- UM3.Wed.P8 Zeynep GINIS, **Meral DOGAN**, A. Umran DOGAN, Tuncay DELIBASI, Namik DELIBASI, Aynur ALBAYRAK, Ahmet YESILYURT  
 THE EFFECTS OF COLEMANITE ON TESTICULAR IN RATS
- UM3.Wed.P9 **Parvaneh ROOZBAHANI**, Seyed-Mohammad HAKIMI, Morteza KASHEFI  
 THE POWER OF CLEAN, LIVING SOIL ON REMOVAL OF ENVIRONMENTAL CONTAMINATION

- UM3.Wed.P10 **Constantia ACHILLEOS**, Elia TANTELE  
TREATED WASTEWATER INFILTRATION IN CONSTRUCTED PONDS AT PAPHOS  
DISTRICT, CYPRUS
- UM2.Wed.P11 Loganathan KALPANA, B. UMAMAHESHWARI, **Lakshmanan ELANGO**  
ASSESSMENT OF INHERENT TOXICITY OF CERTAIN ROCKS AND ITS IMPACT ON  
HUMAN HEALTH – A STUDY AT PAMBAR RIVER SUB – BASIN, NW TAMIL NADU, INDIA

**Thursday 22 September**



## Thursday 22 September- AIR Room Plenary Session

8.00 - 8.50 **Chairs:** Theo Davis & Bernardino Figueredo  
*Hiroshi Yasuda*  
ENVIRONMENTAL HEALTH RISK OF THE FUKUSHIMA NUCLEAR POWER PLANT ACCIDENT

## Thursday 22 September- AIR Room Session ME2 – Oral Presentations

**AIRBORNE PARTICULATE MATTERS & MINERALS - DUST: A CONTRIBUTION FROM GEM-IUGS COMMISSION**  
**Conveners:** José A. Centeno & Brian R. Marker

**Chairs:** José A. Centeno & Brian R. Marker

08.50 ME2.Thu.L1  
**Mark B. Lyles**, Herbert L. Fredrickson, Anthony J. Bednar, Harry B. Fannin, Dale W. Griffin, Terrance M. Sobecki  
MINERALIZED DUST EXPOSURE IN THE MIDDLE EAST: POTENTIAL HEALTH RISKS FROM METALS AND MICROBIAL PATHOGENS

09.20 ME2.Thu.L2  
**Brenda J. Buck**, Dirk Goossens, Brett McLaurin, Debbie Soukup, Yuanxin Teng, Deborah Keil, Margie Peden-Adams, Steve Proper, Dirk Baron, April Ulery  
ASSESSMENT OF DUST EMISSIONS AT NELLIS DUNES RECREATION AREA, NEVADA, USA: PRELUDE TO A HUMAN HEALTH RISK ASSESSMENT

09.40 ME2.Thu.L3  
**Heather Jamieson**, Antonio Lanzirotti, Parsons Michael, Madeleine Corriveau, Walker Stephen, Pat Rasmussen  
CHARACTERIZATION OF INDIVIDUAL PARTICLES IN DUST SAMPLES

10.00 ME2.Thu.L4  
Akinade Olatunji, **Akinlolu Abimbola**  
GEOCHEMICAL EVALUATION OF IMPACTS OF URBANIZATION ON SOILS AND DUSTS IN AKURE AND BENIN CITY METROPOLIS, NIGERIA

10.20 ME2.Thu.L5  
**Hesam Ahmady Birgani**, Sabino Aurelio Bufo, Sadat Feiznia, Hasan Mirnejad, Hasan Ahmadi, Neda Charehsaz  
SURVEY OF AEOLIAN AIRBORNE DUST OVER IRAN FROM THE POINT OF VIEW GEOCHEMISTRY AND MINERALOGY (CASE STUDY: WESTERN IRAN AND NORTH OF PERSIAN GULF AND SEA OF MOKRAN)

### COFFEE BREAK 10.40-11.00

**Chairs:** Mark B. Lyles & Brian R. Marker

11.00 ME2.Thu.L6  
**Geoffrey S. Plumlee**, Gregory P meeker, Suzette A morman  
TOXICOLOGICALLY RELEVANT CHARACTERISTICS OF ATMOSPHERIC PARTICULATE MATTER FROM DIVERSE GEOGENIC, GEOANTHROPOGENIC, AND ANTHROPOGENIC SOURCES

- 11.30 ME2.Thu.L7  
**Ferhat Karaca**, Kurtulus Golcuk, Ismail Anil  
FAST IDENTIFICATION OF SAHARAN DUST MINERAL CONTRIBUTIONS TO URBAN  
ATMOSPHERE USING ATR-FTIR SPECTROSCOPY
- 11.50 ME2.Thu.L8  
**Brian R. Marker**  
DUST FROM MINERAL EXTRACTION: REGULATION OF EMISSIONS IN THE UNITED KINGDOM
- 12.10 ME2.Thu.L9  
**Jose A. Centeno**  
ATMOSPHERIC DUST AND OTHER PARTICULATES DEFINING THE RISKS FROM A MEDICAL  
GEOLOGY PERSPECTIVE
- 12.30 ME2.Thu.L10  
**Greg Meeker**, Geoffrey S. Plumlee, M. Baldwin, D. Prezant  
MINERALOGICAL ANALYSIS AND GEOCHEMICAL CHARACTERIZATION OF EXOGENIC AND  
ENDOGENIC PARTICLES IN EXPLANTED LUNG AND HILAR LYMPH NODE TISSUE

**LUNCH 12.50-14.20**

## Thursday 22 September- EARTH Room Session ET5 – Oral Presentations

### TOXICO KINETICS & FATE OF PESTICIDES IN BIOLOGICAL SYSTEMS, FOOD & ENVIRONMENT

**Conveners:** Ashim Chowdhury & Sabino A- Bufo

**Chairs:** Sabino A. Bufo & Lakshmanan Elango

08.50 ET5.Thu.L1

**Marco Trevisan**, Matteo Balderacchi

PESTICIDE FATE IN THE ENVIRONMENT AND STRATEGIES OF MITIGATION

09.20 ET5.Thu.L2

**Michèle Negre**, Napoleone Colajanni, Daniele Vindrola, Enzo Montoneri

USE OF BIO-ORGANIC MATTER FROM URBAN WASTES TO PREVENT THE LEACHING OF HERBICIDES TO GROUND WATER

09.40 ET5.Thu.L3

**Ilenia Braschi**, Annalisa Martucci, Sonia Blasioli, Geo Paul, Giorgio Gatti, Lara Gigli, Maurizio Cossi, Leonardo Marchese

HIGH SILICA ZEOLITE Y FOR EMBEDDING SULFONAMIDE ANTIBIOTICS: AN AFFORDABLE MATERIAL FOR WATER CLEAN-UP AND DRUG DELIVERY

10.00 ET5.Thu.L4

Andrea Baglieri, Michèle Nègre, Piera Cavallaro, Francesco Trotta, Cristina Abbate, **Mara Gennari**

ORGANO-CLAYS AND NANOSPONGES FOR ACQUIFER BIOREMEDIATION: ADSORPTION AND DEGRADATION OF TRICLOPYR

**COFFEE BREAK 10.40-11.00**

## Thursday 22 September- EARTH Room Session RA5 – Oral Presentations

### MEDICAL GEOLOGY AND OCCUPATIONAL MEDICINE

**Conveners:** Rodolfo Coccioni, Bianca Rimoldi, Fabio Tateo, Paolo Valera

**Chair:** Bianca Rimoldi & Paolo Valera

11.00 RA5.Thu.L1

**Eduardo De Capitani**, Eduardo Algranti

ENVIRONMENTAL ASBESTOS EXPOSURE AND THE CURRENT SITUATION OF ASBESTOS GEOLOGIC OCCURRENCES, MINING, MANUFACTURING AND USE IN BRAZIL

11.30 RA5.Thu.L2

Sergio Malinconico, Federica Paglietti, **Bianca Rimoldi**, Orietta Sala

NATURAL OCCURRING ASBESTOS IN ITALY

11.50 RA5.Thu.L3

**Bianca Rimoldi**, Alessandro Cavallo, Annalisa Guercio, Elisabetta Barbassa, Gabriella Marena, Francesca Pisanelli, Patrizia Santucci, Leo Tripi, Stefano Massera

NATURALLY OCCURRING ASBESTOS IN SERPENTINITE QUARRIES: A CASE STUDY IN VALMALENCO, CENTRAL ALPS, NORTHERN ITALY

12.10 RA5.Thu.L4

**Orietta Sala**, Giovanni Pecchini, Pietro Boggio, Andrea Pelosio, Massimo Romagnoli, Lella Checchi  
PROPOSED CLASSIFICATION OF OPHIOLITES DEPOSITS AND USE OF MATERIALS  
EXTRACTED ACCORDING TO THEIR CONTENT OF ASBESTOS

**LUNCH 12.50-14.20**

**Friday 23 September**



## Friday 23 September- AIR Room Plenary Session

- 8.00 - 8.50 **Chairs:** Ray Ferrell & Eduardo Ferreira da Silva  
*Lynda B. Williams*  
ANTIBACTERIAL CLAYS AND THEIR POTENTIAL FOR MEDICINAL APPLICATIONS

## Friday 23 September- AIR Room Session ME4 – Oral Presentations

### ZEOLITES AND CLAYS: ENVIRONMENTAL & MEDICAL USES

**Conveners:** Claudia Belviso

**Chairs:** Claudia Belviso & Fernando Rocha

- 08.50 ME4.Fri.L1  
**Annalisa Martucci**, Luisa Pasti, Marianna Nassi, Roberto Bagatin, Alberto Alberti  
EVIDENCES OF COMPETITIVE ADSORPTION OF HYDROCARBONS INTO AN HYDROPHOBIC ZSM-5
- 09.20 ME4.Fri.L2  
Ali Shodjae, **Ali Pak**  
INVESTIGATION OF THE EFFECT OF ADDING NATURAL ZEOLITE TO SOLID WASTE LANDFILL CLAY LINER FOR ADSORPTION OF Mn AND ZN IONS IN LEACHATE
- 09.40 ME4.Fri.L3  
**Annalisa Martucci**, Luisa Pasti, Marianna Nassi, Elena Sarti  
ADSORPTION OF PHARMACEUTICALS FROM DILUTE AQUEOUS SOLUTIONS INTO SYNTHETIC BETA ZEOLITE
- 10.00 ME4.Fri.L4  
**Makoto Okamoto**, Teiichi Ueno  
OUTLINE OF NATURAL ZEOLITE MINERALS OCCURRING INSIDE THE TAKAMATSU CRATER DISTRICT IN SHIKOKU, JAPAN
- 10.20 ME4.Fri.L5  
Necati Karakaya, **Muazzez Celik Karakaya**  
PRELIMINARY RESULTS OF MINERALOGIC AND GEOCHEMICAL PROPERTIES OF ZEOLITE OCCURRENCES IN AROUND OF KULU (KONYA) AND HAYMANA (ANKARA)

### COFFEE BREAK 10.40-11.00

**Chairs:** Claudia Belviso & Iñacio Sainz-Díaz

- 11.00 ME4.Fri.L6  
**Oliver Schäf**  
COMPARISON OF TWO ADSORPTION MECHANISMS FOR SMALL SIZED MOLECULES ONTO ZEOLITES IN VIEW OF UREMIC TOXIN REMOVAL
- 11.30 ME4.Fri.L7  
**Cisem Bulut** Albayrak, Guler Narin, Semra Ulku  
ADSORPTION OF AFLATOXIN B1 ON THE LOCAL NATURAL ZEOLITE

- 11.50 ME4.Fri.L8  
Piotr Jurkiewicz, Pavel Janda, Milan Bousa, Martin Hof, Milan Kocirik, **Ivan Jirka**  
DIFFUSION OF SUPPORTED PHOSPHOLIPID BILAYER MEMBRANES ON THE SURFACE OF B-ORIENTED MFI FILM WITH CONTROLLED SURFACE ROUGHNESS
- 12.10 ME4.Fri.L9  
C. Ignacio Sainz-Diaz, Misaela Francisco-Marquez, **Catalina Soriano-Correas**  
ADSORPTION OF SULFONAMIDES ON PHYLLOSILICATE SURFACES AS MODELS OF SLOW RELEASE NANOMATERIALS BY DIFFERENT THEORETICAL APPROACHES
- 12.30 ME4.Fri.L10  
**Bakhtyar Kamal Aziz**  
REMOVAL OF TEXTILE DYES FROM WASTE WATER OF KIFFRY TEXTILE FACTORY USING NATURAL CLAY OF THE REGION

**LUNCH 12.50-14.20**

**Friday 23 September –AIR Room  
Session UM3a – Oral Presentations**

**TRACE ELEMENTS AND THEIR SPECIES IN THE ENVIRONMENT-FOOD CHAIN**

**Conveners:** Francesco Cubadda

**Chairs:** Francesco Cubadda & Elena Sturchio

- 14.30 UM3a.Fri.L1  
**William Orem**, David Krabbenhoft, Cynthia Gilmour, George Aiken  
BIOGEOCHEMICAL PROCESSES AND METHYLMERCURY PRODUCTION IN FRESHWATER WETLANDS
- 15.00 UM3a.Fri.L2  
**Francesco Cubadda**, Anna Chiara Turco, Federica Aureli, Marilena D'Amato, Andrea Raggi, Alberto Mantovani  
DIETARY EXPOSURE TO INORGANIC ARSENIC IN AREAS WITH ELEVATED LEVELS OF GEOGENIC ARSENIC IN LATIUM (CENTRAL ITALY)
- 15.20 UM3a.Fri.L3  
Natalia Belén Ortega Morales, Roberto Briones Gallardo, Israel Razo Soto, **Juan Antonio Reyes Aguero**  
ASPHODELLUS FISTULOSUS TOLERANCE TO ARSENIC WITH RELATION TO THE SPECIATION IN SOILS DISTURBED BY MINING ACTIVITIES
- 15.40 UM3a.Fri.L4  
**Vincevica-Gaile Zane**, Klavins Maris, Rudovica Vita, Viksna Arturs  
RISK AND BENEFIT ASSESSMENT OF TRACE AND MAJOR ELEMENTS DETECTED IN HONEY OF DIFFERENT ORIGINS

**COFFEE BREAK 16.20-16.40**

## Friday 23 September –AIR Room Session UM3c – Oral Presentations

### GEOCHEMICAL ASPECTS IN MEDICAL GEOLOGY

**Conveners:** Organizing Committee

**Chairs:** Robert Finkelman & Olle Selinus

16.40 UM3c.Fri.L1

**Barbara Kerek**, Ubul Fugedi, Gyoza Jordan

ENVIRONMENTAL GEOCHEMICAL PROBLEMS IN HUNGARY INTERACTION OF COSMIC RADIATION WITH THE SURFACE OF THE EARTH

17.10 UM3c.Fri.L2

Amélia Reis, **Carla Patinha**, Cristiana Costa, Fernando Rocha, Eduardo Ferreira da Silva, Claudia Dias, Cristina Sequeira, Denise Terroso

THE CONTROL EXERT BY SOIL MINERALOGY IN THE MOBILITY OF POTENTIALLY HARMFUL ELEMENTS TO HUMAN HEALTH IN THE URBAN SOILS OF LISBON, PORTUGAL

17.30 UM3c. Fri.L3

**Josi Herron**, Alan D. Christian, Robyn Hannigan

WATER QUALITY ANALYSIS OF HEAVY METALS As, Cd, Cu, Pb, AND Hg FROM ETANG SAUMATRE LAKE IN HAITI

17.50 UM3c. Fri.L4

**Muguli Tripti**, Gundiga P. Gurumurthy, Keshava Balakrishna, Alevoor S. Bharath Prasad, Mohandas D. Chadaga, Bola S.S. Rao

PHYSICO-CHEMICAL AND TRACE ELEMENT GEOCHEMISTRY OF SWARNA RIVER, SOUTHWEST COAST OF INDIA: A BASELINE STUDY

18.10 UM3c. Fri.Out-of-Program

**Xiaoying Zheng**

THE EFFECT OF SOIL ELEMENTS AND CONTAMINATION WATER ON BIRTH HEALTH IN NORTH OF CHINA

## Friday 23 September –Earth Room Session RA3-4 – Oral Presentations

### MEDICAL GEOLOGY PERSPECTIVE ON THE RISKS ASSOCIATED WITH VOLCANISM AND BROWNFIELDS

**Conveners:** Benedetto De Vivo, Harvey Belkin, Maurizio Manno

**Chairs:** Harvey Belkin & Benedetto De Vivo

08.50 RA3-4.Fri.L1

**Claire HORWELL**, Peter BAXTER, Williamson BENEDICT

THE RESPIRATORY HEALTH HAZARDS OF VOLCANIC ASH: A REVIEW OF CURRENT KNOWLEDGE FROM A MINERALOGICAL AND TOXICOLOGICAL PERSPECTIVE

09.20 RA3-4.Fri.L2

**Armindo S. Rodrigues**, Mònica Arruda, Patricia V. Garcia

GENOTOXIC BIOMONITORING OF HUMANS INHABITING A VOLCANICALLY ACTIVE ENVIRONMENT

09.40 RA3-4.Fri.L3

Uriah Lar, **Adamu Usman**

ENVIRONMENTAL DISTRIBUTION OF TRACE METALS IN THE BIU VOLCANIC PROVINCE NIGERIA: EXPOSURE AND ASSOCIATED HEALTH PROBLEMS

10.00 RA3-4.Fri.L4

**Benedetto De Vivo**, Annamaria Lima, Stefano Albanese, Domenico Cicchella

NATURALLY OCCURRING ARSENIC AND RADIOACTIVITY IN THE NEAPOLITAN VOLCANIC PROVINCE AS A SOURCE OF A POTENTIAL HAZARD FOR HUMAN HEALTH

10.20 RA3-4.Fri.L5

**David Damby**, Claire Horwell

MINERALOGICAL FACTORS AFFECTING THE POTENTIAL TOXICITY OF VOLCANIC ASH

### COFFEE BREAK 10.40-11.00

**Chairs:** Benedetto De Vivo & Maurizio Manno

11.00 RA3-4.Fri.L6

**Stefano Albanese**, Benedetto De Vivo, Annamaria Lima

RISK ANALYSIS OF THE BAGNOLI BROWNFIELD SITE: ASSESSMENT OF THE THREAT FOR THE HEALTH OF LOCAL POPULATION

11.30 RA3-4.Fri.L7

**Miriam Fechetia**, Juliana Flàvia Muglia Araújo, Màrcia Andreia Mesquita Silva da Veiga

BIOACCESSIBILITY OF Pb IN URBAN SOILS AND INFLUENCE OF TEMPORAL VARIATION AND SOIL PARTICLES SIZE RELEVANT TO INGESTION

11.50 RA3-4.Fri.L8

**Gabriela Marques Di Giulio**, Bernardino Ribeiro de Figueiredo, Lucia Costa Ferreira, Phil Macnaghten, Nelly Mañay, Jose Angelo Dos Anjos

PARTICIPATIVE RISK COMMUNICATION AS AN IMPORTANT TOOL IN MEDICAL GEOLOGY STUDIES

- 12.10 RA3-4.Fri.L9  
Sergio Calabrese, **Walter D'Alessandro**, Alessandro Aiuppa, Emanuela Bagnato, Sergio Bellomo, Lorenzo Brusca, Marcello Liotta, Francesco Parello  
THE IMPACT OF VOLCANIC EMISSIONS ON ETNA'S SNOW COVER
- 12.30 RA3-4.Fri.L10  
**Walter D'Alessandro**, Alessandro Aiuppa, Sergio Bellomo, Pietro Bonfanti, Lorenzo Brusca, Konstantinos Kyriakopoulos, Manfredi Longo, Roberto Maugeri  
SULFUR GAS MONITORING IN VOLCANIC/GEOTHERMAL AREAS WITH PASSIVE SAMPLERS: HUMAN HEALTH IMPLICATIONS

**LUNCH 12.50-14.20**

## **Friday 23 September –EARTH Room Session RA1 – Oral Presentations**

### **HEALTH IMPACTS OF MINING ACTIVITIES**

**Convener:** Ashraf El Maghraby

**Chairs:** Ashraf El Maghraby & Fabio Tateo

- 14.30 RA1.Fri.L1  
**Kim Dowling**, Sultan Khawar, Margaret Mearthar, Georgina Clark, Narelle Beattie  
THE GOLD MINING LEGACY: A GEOCHEMICAL HISTORY OF THE VICTORIAN GOLD FIELDS WITH EMPHASIS ON OUR ARSENIC HERITAGE
- 15.00 RA1.Fri.L2  
Muazzez Celik Karakaya, **Necati Karakaya**  
CHARACTERISTICS OF HEAVY METAL CONTAMINATION OF SURFACE WATERS FROM ABANDONED SULFIDE MINES AND THEIR TAILINGS IN AROUND OF ESPIYE (GIRESUN, TURKEY)
- 15.20 RA1.Fri.L3  
**Maria Aurora Armienta**, Esther Aurora Ruiz Huerta, Alejandra Aguayo, Nora Ceniceros, Olivia Cruz  
MAIZE CROPS IN MINING ZONES OF MEXICO. A THREAT TO HUMAN HEALTH?
- 15.40 RA1.Fri.L4  
**Ana Rita Salgueiro**, Paula Helena Ávila, Eduardo Ferreira da Silva, Henrique Garcia Pereira  
SPATIAL ESTIMATION OF SOIL SAMPLES ACCORDING TO HARMFUL EFFECTS ON HUMAN HEALTH: THE CASE OF PANASQUEIRA MINE (CENTRAL PORTUGAL)

**COFFEE BREAK 16.00-16.20**

**Chair:** Ashraf El Maghraby & Fabio Tateo

- 16.20 RA1.Fri.L6  
**Ashraf M.O. El Maghraby**  
ADVERSE HEALTH IMPACTS OF MINING ACTIVITIES
- 16.50 RA1.Fri.L7  
**Ramasamy Murugan**, Rajendran Rajesh, Karthikeyan Brindha, Lakshmanan Elango, Raghavan N. Nair  
AREA AND VOLUME CALCULATION OF PROPOSED URANIUM TAILINGS POND, SERIPALLY, NALGONDA DISTRICT, ANDHRA PRADESH, INDIA

- 17.10 RA1.Fri.L8  
Farid Moore, **Sharareh Dehghani**, Behnam Keshavarzi, Afsar Eslami, Esmat Esmaeil Zadeh  
ENVIRONMENTAL IMPACTS OF COPPER MINING IN THE MIDUK AREA
- 17.30 RA1.Fri.L9  
**Sabina Michnowicz**, Claire Horwell, David Damby, Ivana Fenoglio, Bice Fubini  
A PHYSICO-CHEMICAL ASSESSMENT OF THE POTENTIAL RESPIRATORY HEALTH HAZARD OF  
QUARRIED VOLCANIC DEPOSITS
- 17.50 RA1.Fri.L10  
Wenhui Huang, **Robert Finkelman**  
COAL-RELATED HEALTH ISSUES IN CHINA: PAST, PRESENT, AND FUTURE

## Friday 23 September- WATER Room Session PQ5 – Oral Presentations

### IMPACT OF ALTERATIONS IN WATER ENVIRONMENT ON HUMAN HEALTH

**Convener:** Motomu Ibaraki

**Chairs:** Motomu Ibaraki & Satoshi Takizawa

- 08.50 PQ5.Fri.L1  
Satoshi Takizawa, Aunnopn Wongrueng, **Suraphong Wattanachira**  
SOURCE AND HEALTH EFFECTS OF FLUORIDE IN LAMPHUN PROVINCE, THAILAND
- 09.20 PQ5.Fri.L2  
**Evens Emmanuel**  
CUMULATIVE RISK ASSESSMENT OF LEAD, CHROMIUM AND ZINC IN GROUNDWATER AND DRINKING WATER: A CASE STUDY FROM PORT-AU-PRINCE, HAITI
- 09.40 PQ5.Fri.L3  
**Tewodros R. Godebo**, Brittany R. Merola, Julia Kravchenko, Avner Vengosh, Peter McCornick  
GROUNDWATER GEOCHEMISTRY, QUALITY AND ITS IMPACT ON HUMAN HEALTH: FIELD BASED DENTAL FLUOROSIS ASSESSMENT IN THE MAIN ETHIOPIAN RIFT
- 10.00 PQ5.Fri.L4  
**Azza Fouad**  
POSSIBLE EFFECTS OF MINERALIZATION AND LITHOLOGICAL INTERACTION ON NATURAL WATER
- 10.20 PQ5.Fri.L5  
**Hector Rubio**, Gilberto Soto-Chacon, Rey Quintana, Celia Holguin, Francisco Camarillo  
METAL CONCENTRATION IN SEDIMENTS OF LAGUNA DE BUSTILLOS IN MEXICO  
IMPLICATIONS ON HUMAN HEALTH

### COFFEE BREAK 10.40-11.00

**Chairs:** Motomu Ibaraki & Satoshi Takizawa

- 11.00 PQ5.Fri.L6  
**Laura Ruhl**, Avner Vengsoh, Gary Dwyer  
ENERGY AND WATER RESOURCES: UNDERSTANDING THE IMPACT OF COAL COMBUSTION RESIDUES ON THE ENVIRONMENT BY EVALUATING THE EFFECTS OF THE 2008 COAL ASH SPILL IN TENNESSEE, USA
- 11.30 PQ5.Fri.L7  
**Junko Okumura**, Satoshi Nakamura, Taro Yamamoto  
PRESENCE OF MULTIDRUG-RESISTANT ORGANISMS IN AQUATIC ENVIRONMENT: WHAT IS ITS IMPLICATION ON HUMAN HEALTH?
- 11.50 PQ5.Fri.L8  
**Karthikeyan Brindha**, Rajendran Rajesh, Lakshmanan Elango  
FLUORIDE RICH ROCKS AND ITS IMPACT ON GROUNDWATER QUALITY
- 12.10 PQ5.Fri.L9  
**Motomu Ibaraki**  
INVESTIGATION OF SNAIL POPULATION DYNAMICS FOR SCHISTOSOMIASIS TRANSMISSION CONTROL USING STRONTIUM ISOTOPE TRACERS

### LUNCH 12.50-14.20

**Friday 23 September –POSTER Room**  
**Sessions ET9, ET12, ME4, PQ1, PQ5, RA1, RA3-4, RA5, RA6, UM3[2°]**  
**Poster Presentations**

**Posting Time:** Friday 23 September; **Removal:** Saturday 24 September

**Attendance Time:** Friday, 23 September, 17.50–20.00

**ET9 - BIOMONITORING AND BIOMARKERS AND RISK ASSESSMENT**

- ET9.Fri.P1      Cristina ALVAREZ, Mariela PISTON, Giovanna CLAVIJO, Maria Elvira GOMEZ, **Nelly Mañay**  
 DEVELOPMENT OF ARSENIC ANALYTICAL METHODOLOGIES IN WATER AND URINE BY Hg-AAS FOR ROUTINE DETERMINATIONS IN URUGUAY
- ET9.Fri.P2      Manuela INÁCIO, Eduardo FERREIRA DA SILVA, **Virginia PERREIRA**, Anne-Marie GUIHARD-COSTA, Sandra VALENTE  
 EVALUATION OF URINARY ARSENIC IN CHILDREN AND THEIR MOTHERS LIVING NEAR AN INDUSTRIAL COMPLEX (ESTARREJA, PORTUGAL)
- ET9.Fri.P3      Gianluigi DE GENNARO, Silvano DRAGONIERI, Francesco LONGOBARDI, Marina MUSTI, Sabrina PISTILLO, Gaetano STALLONE, Livia TRIZIO, **Maria TUTINO**  
 MALIGNANT PLEURAL MESOTHELIOMA FROM SUBJECTS WITH SIMILAR PROFESSIONAL ASBESTOS EXPOSURE
- ET9.Fri.P4      Paolett LOYA-OLIVAS, Hector RUBIO, Alberto SANCHEZ, **Rosa FLORIDO**  
 RAPID ASSESSMENT PROGRAM (RAP) IN A SUBURBAN WETLAND IN MEXICO
- ET9.Fri.P5      **Carla PATINHA**, Amélia REIS, Claudia REIS, Eduardo FERREIRA DA SILVA, Fernando ROCHA, Cristiana COSTA, Cristina SEQUEIRA, Denise TERROSO  
 Zn, Pb AND As ORAL BIOACCESSIBILITY OF LISBON URBAN SOILS
- ET9.Fri.P6      **Annamaria PERNA**, Immacolata INTAGLIETTA, Amalia SIMONETTI, Sandra MEDICI, Juan MARIOLI, Gabriel SARLO, Gustavo VELIS, Martin EGUARAS, Emilio GAMBACORTA  
 CONTAMINATION OF ENVIRONMENT OF HEAVY METALS: HONEY AS A SENSITIVE INDICATOR

**ET12 - SOLVING MEDICAL QUESTIONS WITH GEOCHEMISTRY**

- ET12.Fri.P1      **Calin TATU**, William OREM, Nikola PAVLOVIC, Harry LERCH, Alexandra GRUIA, Anne BATES, Diana SZILAGYI, Valentin ORDODI, Virgil PAUNESCU  
 BALKAN ENDEMIC NEPHROPATHY: THE COMPLEX EQUATION OF MULTIFACTORIAL ETIOLOGY
- ET12.Fri.P2      Robin HANNIGAN, **Tomas DARRAH**  
 PT-BASED ANTI-CANCER TREATMENTS - A GEOCHEMICAL PERSPECTIVE ON BIOCHEMICAL INTERACTIONS
- ET12.Fri.P3      **Eduardo Paim VIGLIO**, Hernando BAGGIO, Leila Menegasse VELASQUEZ  
 USE OF REGIONAL GEOCHEMICAL PROSPECTING OF FLUORINE IN SUB-BASINS OF THE MIDDLE PART OF THE SÃO FRANCISCO RIVER, NORTH OF MINAS GERAIS/BRAZIL

**ME4 - ZEOLITES AND CLAYS: ENVIRONMENTAL & MEDICAL USES**

- ME4.Fri.P1 **Sanja JEVTIC**, Svetlana GRUJIC, Nevenka RAJIC  
A STUDY OF THE RELEASE OF ASPIRIN FROM MODIFIED SURFACE OF THE NATURAL CLINOPTILOLITE
- ME4.Fri.P2 **Claudia BELVISO**, Achille PALMA, Pietro RAGONE, Saverio FIORE  
APPLICATION OF ZEOLITE SYNTHESIZED FROM FLY ASH FOR THE REMOVAL OF Pb
- ME4.Fri.P3 **Tatsuo OHGUSHI**, Tooru UEMIZU, Masanobu HORIE  
EXAMINATION OF ELIMINATIONS OF VOC AND MOISTURE WITH ZEOLITES QUICKLY REACTIVATED BY MICROWAVE HEATING
- ME4.Fri.P4 Giuseppe ZACCARIA, **Maria D.R. PIZZIGALLO**, Paola DI LEO, Nicoletta DITARANTO, Luigia SABBATINI  
"MECHANOCHEMICAL RETENTION" OF CADMIUM IN DIOCTAHEDRAL AND TRIOCTAHEDRAL SMECTITES
- ME4.Fri.P5 **Parvaneh ROOZBAHANI**, Seyed-Mohammad HAKIMI, Morteza KASHEFI  
PROCESSING CLAY AS EFFECTIVE DRUG FOR CURING OF DIGESTIVE INFECTIOUS DISEASE

**PQ1 - ARSENIC AND THE ENVIRONMENT: FROM GEOLOGY TO MEDICINE THROUGH THE FOOD CHAIN**

- PQ1.Fri.P1 **Ciopec MIHAELA**, Davidescu MIRCEA CORNELIU, Negrea ADINA, Muntean CORNELIA, Negrea PETRU, Popa ADRIANA, Lupa LAVINIA  
ARSENIC(III) ADSORPTION FROM AQUEOUS SOLUTION BY USING FE(III)-LOADED XAD-8 RESIN IMPREGNATED WITH DEHPA
- PQ1.Fri.P2 Priscilla BOCCIA, Miriam ZANELLATO, Claudia MECONI, Giuseppe MERCURIO, **Elena STURCHIO**  
EVALUATION OF THE ARSENIC EFFECTS ON C. ELEGANS MODEL SYSTEM
- PQ1.Fri.P3 Laura CASORRI, **Elena STURCHIO**, Eva MASCIARELLI, Claudio BENI, Paolo NAPOLITANO, Mauro MECOZZI  
INVESTIGATION OF MOLECULAR MODIFICATIONS BY FTIR AND FTNIR SPECTROSCOPY
- PQ1.Fri.P4 **Arezo ABEDI**, Mojtaba SAEB  
INVESTIGATION ON ARSENIC CONCENTRATION IN WATER AND SEDIMENT SAMPLES AROUND THE ABANDONED TORGHABEH GOLD DEPOSIT, NE IRAN
- PQ1.Fri.P5 **Letizia DA SACCO**, Antonella BALDASSARRE, Nadia PANERA, Gianfranco RISULEO, Anna ALISI, Andrea MASOTTI  
GENE EXPRESSION, HOMEOSTASIS AND APOPTOTIC PROCESSES IN TWO HEPATOBLASTOMA CELL LINES TREATED WITH AS(III) AND AS(V)

**PQ5 - IMPACT OF ALTERATIONS IN WATER ENVIRONMENT ON HUMAN HEALTH**

- PQ5.Fri.P1 Alex EISEN-CUADRA, Alan CHRISTIAN, Emmanis DORVAL, Tom DARRAH, Robert POREDA, **Robyn HANNIGAN**  
ASSESSMENT OF GROUNDWATER AVAILABILITY, WATER QUALITY, AND HABITAT OF THE ÉTANG SAUMÂTRE REGION, HAITI FOLLOWING THE 01-12-2010 EARTHQUAKE

- PQ5.Fri.P2 Lyn HOGAN, Adam WIGHTWICK, **Kim DOWLING**  
CHANGING WATER ENVIRONMENTS: THE INTERACTION BETWEEN VITICULTURE,  
WATER USAGE AND SEDIMENTS
- PQ5.Fri.P3 Pedro ALMEIDA, Norberto CARVALHO, Nuno OLIVEIRA, Ana SILVA, Margarida ANTUNES, Ana  
FERREIRA, **Teresa ALBUQUERQUE**,  
CHARACTERIZATION OF THE IMPACT CAUSED BY THE DISCHARGES OF A WASTEWATER  
TREATMENT PLANT INTO A FLUVIAL LEISURE AREA - A PORTUGUESE EXAMPLE
- PQ5.Fri.P4 **Miye Kwon**, Cheonghoon LEE, Sang-Jong KIM  
COLIPHAGES DETECTION BY PCR AS A FECAL INDICATOR IN WATER
- PQ5.Fri.P5 **Walter D'ALESSANDRO**, Sergio BELLOMO, Lorenzo BRUSCA  
ELEVATED TRACE METALS AND REE CONTENTS IN THE CO<sub>2</sub>-RICH GROUNDWATERS OF  
FLORINA (N. GREECE) A NATURAL ANALOGUE OF CARBON STORAGE SYSTEMS
- PQ5.Fri.P6 **José Paulo PECCININI PINESE**, Kenia ZANETTI, Valmir de FRANÇA, Edvard Elias DE SOUZA  
FILHO,  
HIDROGEOCHEMICAL CONSIDERATIONS AND RELATIONSHIP WITH THE  
ENVIRONMENTAL HEALTH IN THE UPPER PARANÁ RIVER, PORTO RICO REGION,  
BRAZIL
- PQ5.Fri.P7 **Takeshi HAYASHI**, Satoshi TAKIZAWA, Cau LE NGOC, Naoko WATANABE, Tomochika  
TOKUNAGA  
NATURAL AND ANTHROPOGENIC POLLUTANTS IN LAKE SEDIMENTS IN HANOI CITY
- PQ5.Fri.P8 Vicente ANDREU, Pablo VAZQUEZ-ROIG, Cristina BLASCO, **Yolanda PICO**  
SPATIAL DISTRIBUTION OF ABUSE DRUGS IN HUMID AREAS
- PQ5.Fri.P9 Juan Antonio PASCUAL AGUILAR, **Vincente ADREU**, Yolanda PICO, Pablo VAZQUEZ-ROIG,  
THE INFLUENCE OF CONNECTED URBAN AND OF EMERGING AGRICULTURAL SURFACE  
WATER FLOWS IN THE PRESENCE CONTAMINANTS (PHARMACEUTICAL COMPOUNDS)  
IN PROTECTED NATURAL WETLANDS

#### **RA1 - HEALTH IMPACTS OF MINING ACTIVITIES**

- RA1.Fri.P1 **Harumi Yazmin RAMOS**, Maria del Carme OJEDA, Roel CRUZ , Maria Isabel LAZARO,  
Roberto BRIONES  
BIOREMEDIATION OF SOIL IMPACTS BY MINING ACTIVITIES BY MICROBIAL SULFATE  
REDUCTION
- RA1.Fri.P2 **Miguel BORRUEL**, Diego FRIDMAN, Gaston BORRUEL, Daniel STAMBOULIAN,  
EVALUATION OF HEALTH IMPACT IN AN OPEN-PIT MINING AREA IN CATAMARCA,  
ARGENTINA
- RA1.Fri.P3 Rachael ROBERTS, **Kim DOWLING**  
GRAZING OF EQUUS CABALLUS (THE HORSE/PONY) IN THE GOLDFIELDS REGION OF  
VICTORIA, AUSTRALIA: DOES ELEVATED METALS IN THE SOIL TRANSLATE TO  
ELEVATED BODY BURDEN IN THE ANIMAL?
- RA1.Fri.P4 Mirjana GOLOMEOVA, **Afrodita ZENDELSKA**, Boris KRISTEV, Blagoj GOLOMEOV  
HEAVY METALS IN THE SURROUNDING WATER AND SEDIMENTS OF TAILING DAM OF  
SASA MINE

- RA1.Fri.P5 RachaelL MARTIN, **Kim DOWLING**, Raquel QUINLIVIAN  
MINERAL SPRING WATER IN VICTORIA, AUSTRALIA: POTENTIAL HEALTH  
IMPLICATIONS OF NATURALLY OCCURRING ARSENIC AND ANTIMONY SULPHIDES  
LINKED TO A MINING AFFECTED LANDSCAPE
- RA1.Fri.P6 **Maria Orquídia NEVES**, Maria Manuela ABREU  
URANIUM CONCENTRATION ON AGRICULTURAL SOILS NEAR CUNHA BAIXA MINE  
(PORTUGAL CENTRE-NORTH) AFTER A SEASONAL PERIOD OF IRRIGATION
- RA1.Fri.P7 **Marina CABRAL PINTO**, Maria Manuela VINHA SILVA, Ana NEIVA  
POLLUTION OF WATER RELATED WITH AN ABANDONED URANIUM MINE AND HEALTH  
EFFECTS

#### **RA3-4 - MEDICAL GEOLOGY PERSPECTIVE ON THE RISKS ASSOCIATED WITH VOLCANISM AND BROWNFIELDS**

- RA3-4.Fri.P1 **Claire HORWELL**, David DAMBY, Peter BAXTER  
A MINERALOGICAL AND TOXICOLOGICAL ASSESSMENT OF THE HEALTH HAZARD OF  
ASH FROM THE 2010 MERAPI ERUPTION
- RA3-4.Fri.P2 **Lala ANDRIANAIVO**, Voahanginirina J. RAMASIANINORO,  
AIR POLLUTION AND THE NEED FOR REMEDIAL MEASURES IN ANTANANARIVO
- RA3-4.Fri.P3 **Stefano ALBANESE**, Diego CIVITILLO, Antonio COSENZA, Annamaria LIMA, Benedetto DE VIVO  
AN ECOLOGICAL RISK ASSESSMENT ON COASTAL SEA SEDIMENTS AT THE BAGNOLI  
BROWNFIELD SITE (ITALY)
- RA3-4.Fri.P4 Sergio CALABRESE, **Walter D'ALESSANDRO**, Sergio BELLOMO, Lorenzo BRUSCA, Francesco  
PARELLO  
CHEMICAL AND MINERALOGICAL CHARACTERIZATION OF ETNEAN VOLCANIC  
EMISSIONS USING ACTIVE BIOMONITORING TECHNIQUE (MOSS-BAGS)
- RA3-4.Fri.P5 Lisa PIZZOL, **Elisa GIUBILATO**, Andrea CRITTO, Antonio MARCOMINI, Martin BITTENS,  
Stephan BARTKE  
DEVELOPMENT OF AN EXPERT SYSTEM FOR OPTIMIZING THE EVALUATION AND  
SELECTION OF RISK BASED APPROACHES AND TECHNOLOGIES FOR BROWNFIELD  
REHABILITATION: PERSPECTIVES FROM TIMBRE PROJECT
- RA3-4.Fri.P6 **Lia Didero**, Carmela Paletta, Nando Campanella, Matteo Valentino  
HEALTH RISK ASSESSMENT IN UNEXPECTED CONTAMINATION WITH A COMBINATION  
OF CARCINOGENIC AGENTS
- RA3-4.Fri.P7 Nessa GOLDEN, **Chaosheng ZHANG**, Paul GIBSON, Liam MORRISON  
HIGH RESOLUTION MAPPING OF METAL CONTAMINATION IN AN URBAN  
SPORTSGROUND (GALWAY, IRELAND) USING ORDINARY COKRIGING WITH MAGNETIC  
SUSCEPTIBILITY DATA
- RA3-4.Fri.P8 **Luigi Viscigliio**, Maurizio MANNO, Stefano ALBANESE, Andrea SIMONETTI, Egidio  
CELENTANO, Luca LICCIARDI, Maurizio MANNO  
MORTALITY RATES FOR ALL CAUSES, ALL TUMORS, AND LUNG CANCER IN THE  
FORMER INDUSTRIAL AREA OF BAGNOLI AND FUORIGROTTA, NAPLES, FROM 2001 TO  
2007: PRELIMINARY DATA

**RA5 - MEDICAL GEOLOGY AND OCCUPATIONAL MEDICINE**

- RA5.Fri.P1 **Daniela Bellomo**, Carmelo Gargano  
INAIL RISK INSURANCE FOR ASBESTOSIS IN ROAD AND RAIL YARDS IN BIANCAVILLA AREA
- RA5. Fri.P2 **Giuseppe CASTELLET Y BALLARÀ**, Liliana FRUSTERI, Claudio KUNKAR  
NATURAL, INCIDENTAL AND MANUFACTURED NANOPARTICLES IN THE ENVIRONMENT: BEHAVIOR, FATE, BIOAVAILABILITY, RISK ASSESSMENT AND HEALTH EFFECTS
- RA5. Fri.P3 Cinzia GERBELLI, Francesco MAGNANI, **Orietta SALA**, Giovanni PECCHINI, Tiziana BACCI, Paolo PAGLIAI  
WORKERS' ASBESTOS EXPOSURE ASSESSMENT IN QUARRYING THE GREENSTONES (OPHIOLITES) IN THE PARMA PROVINCE

**RA6 - HEALTH IMPACT ASSESSMENT**

- RA6.Fri.P1 **Carla Patinha**, Amélia Reis, Joanna Wragg, Mark Cave, Claudia Dias, Eduardo Ferreira da Silva  
A DIFFERENT PERSPECTIVE ON ORAL BIOACCESSIBILITY OF Cu, Zn AND Cr IN LISBON AND NORTHAMPTON URBAN SOILS
- RA6.Fri.P2 Percy RODRIGUEZ, Julian ALONSO, M. Angeles GARCIA, Ana BRAVO, Jose Luis CASCALLANA, **M. Julia MELGAR**  
CADMIUM LEVELS IN LIVER AND KIDNEY OF RAZORILL AND COMMON MURRE AFFECTED BY THE PRESTIGE OIL TANKER SPILL
- RA6.Fri.P3 **Laura PEREIRA TESTA**, Adriana COUSILLAS, Giovanna CLAVIJO  
OCCUPATIONAL EXPOSURE EVALUATION OF WORKERS OF PORTLAND CEMENT INDUSTRY IN URUGUAY
- RA6.Fri.P4 **Adriana COUSILLAS**, Nelly MAÑAY, Laura PEREIRA TESTA,  
PORTLAND CEMENT AND HEALTH IMPACTS

**UM3 MISCELLANEOUS [2°]**

- UM3.Fri.P1 M. Angeles GARCÍA, Julian ALONSO, **M. Julia MELGAR**  
ASSESSMENT OF MERCURY LEVEL IN CANNED FISHES (TUNA AND BONITO). INFLUENCE OF THE TECHNOLOGY AND TOXICOLOGICAL RISK
- UM3.Fri.P2 **Francesco CUBADDA**, Federica AURELI, Silvia CIARDULLO, Marilena D'AMATO, Andrea RAGGI, Marina CARCEA  
BIOGEOCHEMICAL MAPPING OF PHYTOAVAILABLE ARSENIC, CADMIUM AND LEAD IN ITALIAN AGRICULTURAL SOILS
- UM3.Fri.P3 **M. Julia MELGAR**, Julian ALONSO, M. Angeles GARCÍA  
CHROMIUM ACCUMULATION IN WILD EDIBLE MUSHROOMS: UPTAKE AND TOXICITY

- UM3.Fri.P4 **Lucia SPADA**, Cristina ANNICCHIARICO, Nicola CARDELLICCHIO, Antonella DI LEO, Santina GIANDOMENICO,  
CONTAMINATION OF MARINE ORGANISMS (MOLLUSKS AND FISH) IN TARANTO GULF  
IN RELATION TO MERCURY SPECIATION IN SEDIMENTS
- UM3.Fri.P5 **Beatriz ZAYAS**, Carlos A. ROSADO-BERRIOS, Christian VÉLEZ  
EFFECTS OF PLASTICIZERS ON HUMAN (TK6) LYMPHOBLAST CELLS
- UM3.Fri.P6 Sergio LUEVANO, Hector RUBIO, Rosa FLORIDO, Alberto SANCHEZ, **Leticia GARCIA-MAGANA**,  
FISH AS BIOLOGICAL HEALTH INDICATORS IN AN AQUATIC POND IN VILLAHERMOSA,  
TABASCO MEXICO
- UM3.Fri.P7 **Birgitte HANSEN**, Vibeke ERNSTSEN, Søren MUNCH KRISTENSEN, Kim ESBENSEN  
IODINE IN GROUNDWATER AND HUMAN HEALTH IN DENMARK
- UM3.Fri.P8 Lorena GONZATTO, Guzmán PEINADO, Julia TORRES, Carlos KREMER, **Eduardo KREMER**  
SPECIATION OF Mo(VI) OXYANIONS IN NATURAL WATERS
- UM3.Fri.P9 **Antonella Di Leo**, Cristina ANNICCHIARICO, Nicola CARDELLICCHIO, Santina GIANDOMENICO,  
Lucia SPADA  
MERCURY DISTRIBUTION IN DEEP-SEA SEDIMENTS OF THE MEDITERRANEAN SEA
- UM3.Fri.P10 **Staniša STOJILJKOVI**  
ROLE OF BENTONITE CLAY IN THE ECOLOGY OF THE HUMAN BODY



**Saturday 24 September**



## Saturday 24 September - AIR Room

- 8.00 - 8.50 **Plenary Session - Chairs:** José A. Centeno & Nelly Mañay  
*Chien-Jen Chen*  
 ARSENIC IN DRINKING WATER CAUSES MULTIPLE HEALTH HAZARDS: AN EMERGING ENVIRONMENTAL PANDEMIC

## Saturday 24 September- AIR Room Session PQ1 – Oral Presentations

### ARSENIC AND THE ENVIRONMENT: FROM GEOLOGY TO MEDICINE THROUGH THE FOOD CHAIN

**Conveners:** Jochen Bundschuh, Jiin-Shuh Jean, Prosun Bhattacharya, Andrea Masotti

**Chairs:** Jiin-Shuh Jean & Andrea Masotti

- 08.50 PQ1.Sat.L1  
**Jochen Bundschuh**, Jiin-Shuh Jean  
 ARSENIC EXPOSURE IN LATIN AMERICA BY DRINKING WATER: EXPERIENCES FROM 14 COUNTRIES
- 09.20 PQ1.Sat.L2  
**Oswaldo Ramos**, Vladimir Orsag, Luis Ribeiro, Lourdes Chambi, Prosun Bhattacharya, Gunnar Jacks, Israel Quino, Jorge Quintanilla  
 ARSENIC AND THEIR ENVIRONMENTAL IMPACTS ON SOILS AND CROPS IN THREE SUB-BASINS OF BOLIVIAN ALTIPLANO
- 09.40 PQ1.Sat.L3  
**R. Brittany Merola**, Avner Vengosh, Julia Krauchanka, Mirek Styblo  
 NATURALLY OCCURRING ARSENIC OCCURRENCE IN GROUNDWATER AND BIOMARKER ASSESSMENT IN EXPOSED POPULATIONS FROM NORTH CAROLINA, USA
- 10.00 PQ1.Sat.L4  
**Elena Giménez-Forcada**  
 DISTRIBUTION OF ARSENIC IN SPRING WATERS FROM TWO BASINS ASSOCIATED TO MESSEJANA PLASENCIA DYKE (AMBLES AND CORNEJA VALLEYS, SPAIN)

### COFFEE BREAK 10.40-11.00

**Chairs:** Prosun Bhattacharya & Jochen Bundschuh

- 11.00 PQ1.Sat.L6  
 Zdenka Slejkovec Magnus Moörth, **Jacks Gunnar**  
 NATURAL ARSENIC IN NORTHERN SWEDEN - A RISK ASSESSMENT
- 11.30 PQ1.Sat.L7  
**Shehong Li**, Mingguo Wang, Hui Wang, Baoshan Zheng, Qiang Yang, Yan Zheng  
 ARSENIC ENRICHMENT IN SURFACE WATER AND SOIL IN YARLUNG TSANGPO AND SINGE TSANGPO DRAINAGES IN TIBET, CHINA
- 11.50 PQ1.Sat.L8  
**Shehong Li**, Mingguo Wang, Hui Wang, Baoshan Zheng, Qiang Yang, Yan Zheng  
 ARSENIC ENRICHMENT IN SURFACE WATER AND SOIL IN YARLUNG TSANGPO AND SINGE TSANGPO DRAINAGES IN TIBET, CHINA

- 12.10 PQ1.Sat.L9  
**William Cullen**  
ARSENIC IN MINE-IMPACTED SEDIMENTS: CHARACTERIZATION, BIOAVAILABILITY, AND MOBILITY

**LUNCH 12.50-14.20**

**Chairs:** Jochen Bundschuh & Jiin-Shuh Jean

- 14.30 PQ1.Sat.L11  
**Jose A. Centeno**, Robert B. Finkelman  
ARSENIC - A BENEFICIAL THERAPEUTIC AND AN ENVIRONMENTAL POISON
- 15.00 PQ1.Sat.L12  
**Sandeep Kar**, Jyoti Prakash Maity, Jiin-Shuh Jean  
HUMAN EXPOSURE TO ARSENIC FROM DRINKING WATER AND ASSOCIATION WITH SKIN LESIONS
- 15.20 PQ1.Sat.L13  
**Jiin-Shuh Jean**, Sandeep Kar, Chia-Chuan Liu, Chen-Wuing Liu, Jochen Bundschuh  
BIOACCUMULATION AND DISTRIBUTION OF ARSENIC IN AQUACULTURAL FISH RAISED IN CONTAMINATED GROUNDWATER: POTENTIAL RISKS FOR HUMAN INTAKE
- 15.40 PQ1.Sat.L14  
**Nelly Mañay**, Mariela Piston, Cesar Goso  
FACING ARSENIC ENVIRONMENTAL AND HEALTH ISSUES IN URUGUAY WITH A MEDICAL GEOLOGY APPROACH

**COFFEE BREAK 16.00-16.20**

## Saturday 24 September –EARTH Room Session ET12 – Oral Presentations

### SOLVING MEDICAL QUESTIONS WITH GEOCHEMISTRY

**Conveners:** Robyn Hannigan, Paolo Censi

**Chairs:** Paolo Censi & Robyn Hannigan

- 08.50 ET12.Sat.L1  
Paolo Censi, Angela Cuttitta, **Loredana Randazzo**, Pierpaolo Zuddas, Elisa Tamburo, Elvira Oliveri  
SOURCE RECOGNITION OF INHALED ATMOSPHERIC PARTICLES ACCORDING TO GEOCHEMICAL AND STATISTICAL EVALUATIONS OF TRACE ELEMENTS SIGNATURE
- 09.20 ET12.Sat.L2  
**Chaosheng Zhang**, Ligang Dao, Nessa Golden, Liam Morrison  
INFLUENCES OF TRAFFIC POLLUTION ON SPATIAL DISTRIBUTION OF HEAVY METALS IN ROADSIDE SOILS
- 09.40 ET12.Sat.L3  
**Moshe Shirav-Schwartz**, Shimon Ilani, Ludwik Halicz, Olga Yoffe, Yehudit Har Lavan, Aviad Zick, Yakir Rottenberg  
SOIL GEOCHEMISTRY AND CANCER - A CASE OF MEDICAL GEOLOGY, ISRAEL
- 10.00 ET12.Sat.L4  
**Mayen Adiuku-Brown**, Dalyop Davou  
THE HEALTH IMPLICATION OF (U) AND THORIUM (TH) CONTAMINATION OF SOILS FROM THE YOUNGER GRANITE COMPLEX OF JOS PLATEAU, NORTH CENTRAL NIGERIA
- 10.20 ET12.Sat.L5  
**Olga Karnachuk**, Anna Gerasimchuk, David Banks  
METAL SULFIDE FORMATION IN THE HUMAN INTESTINE: POTENTIAL FOR NEW INSIGHT INTO MICROBIAL SULFATE REDUCTION

**COFFEE BREAK 10.40-11.00**

## Saturday 24 September –EARTH Room Session UM3c – Oral Presentations

### GEOCHEMICAL ASPECTS IN MEDICAL GEOLOGY

**Convener:** Organizing Committee

**Chairs:** Robert Finkelman & Olle Selinus

- 11.00 UM3c.Sat.L6  
**Theo Davies**  
MEDICAL GEOLOGY IN AFRICA
- 11.30 UM3c.Sat.L7  
**Veronica Ngole**  
HEAVY METALS AND PATHOGEN LOAD IN VEGETABLES GROWN ON SLUDGE-AMENDED SOIL: THE ROLE OF SOIL TYPE

- 11.50 UM3c.Sat.L8  
**Karzan Jalal Salih**, Muhammad Ali Abdullah, Bakhtyar Kamal Aziz  
 KINETICS, THERMODYNAMICS AND ADSORPTION ISOTHERMS OF REMOVAL OF HEAVY METAL IONS ( $\text{Cu}^{2+}$  AND  $\text{Pb}^{2+}$ ) USING KURDISTAN/KIFFRY CLAY
- 12.10 UM3c.Sat.L9  
**Veronica Ngole**, Georges-Ivo Ekosse, Sandile Songca  
 CAN GEOPHAGIA IMPROVE MEDICAL AND NUTRITIONAL DEFICIENCIES OF GEOPHAGIC INDIVIDUALS? A CASE OF GEOPHAGIA IN EASTERN CAPE PROVINCE, SOUTH AFRICA
- 12.50 UM3c.Sat.L10  
**M. Tahir SHAH**, Said MUHAMAMD, Sardar KHAN  
 THE ROLE OF MAFIC AND ULTRAMAFIC ROCKS IN THE CONTAMINATION OF WATERS AND SOILS: A CASE STUDY IN THE KOHISTAN REGION OF NORTHERN PAKISTAN

**LUNCH 12.50-14.20**

## Saturday 24 September –EARTH Room Session ET9 – Oral Presentations

### BIOMONITORING AND BIOMARKERS AND RISK ASSESSMENT

**Convenor:** Robert Finkelman & Olle Selinus

**Chairs:** Nelly Mañay & William H. Orem

- 14.30 ET9.Sat.L1  
**Monica Paoliello**, Gina Koyashiki, Eduardo De Capitani  
 EFFECT OF LEAD LEVELS IN BREAST MILK ON ESTIMATED INFANT INTAKE OF LEAD
- 15.00 ET9.Sat.L2  
**Nelly Mañay**, Adriana Cousillas, Teresa Heller, Laura Pereira  
 BIOMONITORING AND BIOMARKERS OF LEAD EXPOSURE: EXPERIENCE IN URUGUAY
- 15.20 ET9.Sat.L3  
**Samuel Sojinu**, Oludayo Sonibare, Ezra Gayawan  
 COMPOSITIONAL PROFILES OF POLYCYCLIC AROMATIC HYDROCARBONS IN HIGHER PLANTS USING MULTIVARIATE ANALYSIS TECHNIQUES
- 15.40 ET9.Sat.L4  
**Geoffrey S. Plumlee**, James Durant, Antonio Neri, Suzette Morman, Ruth Wolf, Greg Meeker, Carrie Dooyema  
 RESPONDING TO THE 2010 NIGERIAN LEAD POISONING OUTBREAK LINKED TO ARTISANAL GOLD ORE PROCESSING: CONTRIBUTIONS FROM THE EARTH SCIENCES

**COFFEE BREAK 16.00-16.20**

## Saturday 24 September- WATER Room Session UM2 – Oral Presentations

### GLOBAL ENVIRONMENTAL CHANGE IMPACTING HUMAN HEALTH

**Conveners:** Shrikant D. Limaye & Giuseppe Matronuzzi

**Chairs:** Giuseppe Mastronuzzi & Bernardino Ribeiro de Figueiredo

- 08.50 UM2.Sat.L1  
**Gabriela Marques Di Giulio**, Lucia Costa Ferreira, Bernardino Ribeiro de Figueiredo  
RISK GOVERNANCE: A NEW APPROACH TO HANDLE GEOHAZARDS AND ENVIRONMENTAL AND CLIMATE CHANGES
- 09.20 UM2.Sat.L2  
**Filomena Pietrapertosa**, Senatro Di Leo, Simona Loperte, Monica Salvia, Carmelina Cosmi  
THE ROLE OF ENERGY EXTERNAL COSTS FOR A COMPREHENSIVE EVALUATION OF SUSTAINABLE ENERGY STRATEGIES
- 09.40 UM2.Sat.L3  
**Patrícia V. Garcia**, Diana P.S. Linhares, André F.S. Amaral, Armindo S. Rodrigues  
BIOMONITORING GENOTOXICITY IN THERMOELECTRIC POWER PLANT WORKERS EXPOSED TO VOLATILE ORGANIC COMPOUNDS OF FUEL-OIL
- 10.00 UM2.Sat.L4  
**Giuseppe Mastronuzzi**, Maurilio Milella, Cosimo Pignatelli, Arcangelo Piscitelli  
PREDICTION OF MAXIMUM POSSIBLE TSUNAMI FLOODING AIMED TO THE REDACTION OF PREVENTION, MITIGATION AND INTERVENTION PLANS
- 10.20 UM2.Sat.L5  
Nando Campanella, **Carmela Paletta**, Matteo Valentino, Lia Didero  
CLIMATE CHANGE, FAMINE CRISIS, CHOLERA OUTBREAK AND EMERGENCY RELIEF RESPONSE IN CHAD

**COFFEE BREAK 10.40-11.00**

## Saturday 24 September- WATER Room Session RA6 – Oral Presentations

### Health Impact Assessment

**Conveners:** Organizing Committee

**Chairs:** Karin Ljung & Chaosheng Zhang

- 11.00 RA6.Sat.L1  
**Pierre Goovaerts**  
GEOSTATISTICS: A COMMON LINK BETWEEN MEDICAL GEOGRAPHY, MATHEMATICAL GEOLOGY, AND MEDICAL GEOLOGY

- 11.30 RA6.Sat.L2  
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