

Giovedì 8 Settembre Thursday 8 September

SESSIONI ORALI/ORAL SESSIONS

MATTINA/MORNING

(08.30-11.00)

S 1. Earthquakes and Active Tectonics: a multidisciplinary approach

Conveners and Chairpersons: Claudio Chiarabba (INGV-Roma1), Giulio di Toro (Università di Manchester), Michele Fondriest (Università di Manchester), Paolo Galli (Dipartimento Protezione Civile), Aldo Zollo (Università di Napoli Federico II)

Aula Coviello (A29)

1-1 08.30 - 08.45

Valente E., Ascione A., Cozzolino M. & Porfido S.: Seismically induced ground effects of the December 2013 – January 2014 Matese seismic sequence (southern Apennines, Italy)

1-2 08.45 - 09.00

Chunga K., Besençon D., Mulas M., Loayza G. & Pindo J.C.: Areal Distribution of Ground Effects Induced by the 2016 Mw 7.8 Pedernales Earthquake (Ecuador)

1-3 09.00 - 09.15

Martin S., Ivy-Ochs S., Rigo M., Viganò A., Alfimov V., Vockenhuber C. & Hippe K.: Changing landscape in the Sarca Valley (Trentino) during Quaternary. Climate or earthquakes?

1-4 09.15 - 09.30

Auciello E. & Boncio P.: Geology of the Piedimonte Matese-Gioia Sannitica active normal fault (southern Matese Mountains, Italy)

1-5 09.30 - 09.45

Giaccio B., Galli P., Messina P. & Peronace E.: Tephrochronology: a continuously enhancing investigation tool of the active tectonic in Peninsular Italy

1-6 09.45 - 10.00

Boncio P. & Caldarella M.: Width of the surface rupture zone for thrust earthquakes and implications for earthquake fault zoning: Chi-Chi 1999 and Wenchuan 2008 earthquakes

1-7 10.00 - 10.15

Di Domenica A., Pizzi A., Ciuffi P., D'Agostino S. & Madonna R.: Speleotectonic evidence for a strong Holocene earthquake in the outer Central Apennines (Maiella, Italy)

1-8 10.15 - 10.30

Ferrario M.F., Livio F., Michetti A.M., Katz O. & Amit R.: Primary surface faulting across the Roman Theatre at Berniki, Sea of Galilee: new archaeoseismic and structural data

1-9 10.30 - 10.45

Roberts G.P., Cowie P.A., Phillips R.J., McCaffrey K., Zijerveld L.J.J., Gregory L.C., Faure Walker J.P., Wedmore L., Dunai T.J., Binnie S.A., Freeman S.P.H.T., Wilcken K., Shanks R.P., Huismans R.S., Papanikolaou I. & Michetti A.M.: Activity migrates between parallel sets of active normal faults on millennial timescales: implications for the mechanics of continental deformation and seismic hazard.

1-10 10.45 - 11.00

Tortorici G., Pavano F., Romagnoli G. & Catalano S.: Late Quaternary contractional deformation along the southern flank of Mount Etna: new evidence from the Catania urban area

S 2. Structural Geology all-round on the Earth and other planets: case studies, modelling and industrial applications – session dedicated to the memory of Marco Beltrando

Conveners and Chairpersons: Massimiliano Rinaldo Barchi (Università di Perugia), Sveva Corrado (Università di Roma Tre), Matteo Massironi (Università di Padova), Fabrizio Storti (Università di Parma)

Aula Amirante (A27)

2-10 08.30 - 09.00

(KEYNOTE) Bertotti G., Bisdom K., Bezerra F.H. & Reijmer J.: Distributed fracturing in reservoir-scale successions of carbonate rocks: Geological drivers and impact on physical properties

2-11 09.00 - 09.15

Viola G., Torgersen E. & Zwingmann H.: Deconvoluting complex structural histories archived in brittle fault zones

2-12 09.15 - 09.30

Turrini C., Lacombe O. & Roure F.: 3D Structural Model of the Po Valley basin (Northern Italy): results, conclusions and perspectives

2-13 09.30 - 09.45

Trippetta F., Ruggieri R. & Lipparini L.: A multi-scale approach for understanding the role of hydrocarbons content on the mechanical properties of rocks: insights and implications for the Majella reservoir (Italy)

2-14 09.45 - 10.00

Giorgetti C., Collettini C., Scuderi M.M., Barchi M.R. & Tesei T.: The role of anisotropy in the mechanics of faulting: an integrated field and laboratory approach

2-15 10.00 - 10.15

La Bruna V., Viveur S., Agosta F., Lamarche J. & Prosser G.: Pre-Pliocene fault networks deciphered after 3D geological modelling of the Monte Alpi area, southern Italy

2-16 10.15 - 10.30

Guzzetta L., Galluzzi V., Ferranti L. & Palumbo P.: Structural setting of the eastern sector of the Caloris basin, *Shakespeare* Quadrangle (H03), Mercury

2-17 10.30 - 10.45

Penasa L., Massironi M., Simioni E., Ferrari S., Lucchetti A., Pajola M., Naletto G., Cremonese G. & the OSIRIS Team: From geological surface data to the interior of a comet: modelling the stratified structure of 67P comet based on scattered attitude observations

2-18 10.45 - 11.00

Pizzi A., Di Domenica A., Komatsu G., Cofano A., Mitri G. & Bruzzone L.: Structural analysis of Ganymede grooved sulci: insights for a global expansion model

S 7. Post-orogenic extension in circum-Mediterranean belts: geomorphic signature, fault systems architecture and tectono-sedimentary evolution of syn-tectonic basins

Conveners and Chairpersons: Francesco Brozzetti (Università di Chieti-Pescara G. D'Annunzio), Luigi Ferranti (Università di Napoli Federico II), Francesco Mirabella (Università di Perugia), Gerardo Pappone (Università di Napoli Parthenope)

Aula DSU4

7-1 08.30 - 09.00

(KEYNOTE) Lavecchia G., Brozzetti F., de Nardis R., Ferrarini F. & Cirillo D.: 3D Quaternary extensional fault model of Italy: from surface to earthquake depths

7-2 09.00 - 09.30

(KEYNOTE) Schiattarella M.: Geomorphological signature of Pliocene-Quaternary tectonics in the axial zone of the southern Apennines, Italy

7-3 09.30 - 09.45

Asti R., Malusà M.G. & Faccenna C.: Unraveling supradetachment basin evolution by detrital apatite fission track analysis: the Gediz Graben (Menderes Massif, Western Turkey)

7-4 09.45 - 10.00

Cosentino D., Asti R., Nocentini M., Gliozzi E., Kotsakis T., Mattei M., Esu D., Spadi M., Tallini M., Cifelli F., Pennacchioni M., Cavuoto G. & Di Fiore V.: New insights into the onset and evolution of the central Apennine extensional intermontane basins from the tectonically active L'Aquila Basin (central Italy)

7-5 10.00 - 10.15

Ferrarini F., Lavecchia G., Boncio P., de Nardis R., Pappone G., Cesarano M. & Aucelli P.P.C.: Inherited fault system control on seismogenic activity: the North Matese case (Molise, Italy)

7-6 10.15 - 10.30

Amato V., Aucelli P.P.C., Cesarano M., Pappone G. & Roszkopf C.M.: The Quaternary tectono-sedimentary evolution of the intermontane basins surrounding the Matese Mountains (Central-Southern Apennines)

7-7 10.30 - 10.45

Porreca M., Beddini G., Mirabella F., Capezzuoli E., Cardellini C. & Pazzaglia F.: A multidisciplinary approach to understand the interaction between faults and fluid circulations: the continental Triponzo basin case history (northern Apennines, Italy)

7-8 10.45 - 11.00

Cirillo D., Brozzetti F., de Nardis R., Lavecchia G., Cardinali M., Orecchio B., Presti D. & Totaro C.: Detailed field mapping and seismic analysis of potentially seismogenic faults at the Calabria-Lucania Boundary (southern Apennines)

S 13. Coastal changes, from past records to future trends: proxy analysis, modelling and monitoring

Conveners and Chairpersons: Fabio Matano (CNR-IAMC Napoli), Pietro P. C. Aucelli (Università di Napoli Parthenope), Stefano Carlino (INGV-OV),

Riccardo Salvini (Università di Siena), Marcello Schiattarella (Università della Basilicata)

Aula A33

13-1 08.30 - 09.00

(KEYNOTE) Pranzini E.: Coastal erosion and protection in Europe

13-2 09.00 - 09.15

Anzidei M., Bosman A., Carluccio R., Carmisciano C., Casalbore D., Chiappini M., Chiocci F.L., D’Ajello Caracciolo F., Esposito A., Fabris M., Muccini F., Nicolosi I., Pietrantonio G., Romagnoli C., Sepe V. & Tusa S.: Multidisciplinary approach to reconstruct flooding scenario along the subsiding coast of Lipari Island

13-3 09.15 - 09.30

Benassai G., Aucelli P.P.C., Di Paola G. & Pappone G.: Monitoring and mitigating the coastal vulnerability in Southern Italy

13-4 09.30 - 09.45

Chunga K., Quiñonez M.F., Mulas M. & Rincon G.: A review of geological hazard records in Quaternary uplifted terraces, central coast of Ecuador

13-5 09.45 - 10.00

Laci S. & Caro E.: Albanian coastline facing the challenges of climate change

13-6 10.00 - 10.15

Mucerino L., Carpi L., Besio G., Benedetti A., Ferrari M. & Firpo M.: Coastal Vulnerability Assessment. Study Case: Bonassola - La Spezia Italy

13-7 10.15 - 10.30

Roskopf C.M., Di Paola G., Rodriguez G. & Walker I.J.: Recent evolution of the Molise coast of Italy: present dynamics and critical issues

13-8 10.30 - 10.45

Soldati M., Barrows T. T. & Prampolini M.: Landslides and sea level changes: evidence of the complex geomorphological evolution of the NW coast of Malta from exposure dating using cosmogenic nuclides

13-9 10.45 - 11.00

Violante C., Esposito E., Braca G. & Tranfaglia G.: Permanent and ephemeral modifications of the Amalfi Coast after the AD 79 eruption of Vesuvius: environmental effects and geohazard implications

S 18. New challenges in Petroleum Geology

Conveners and Chairpersons: Fabrizio Agosta (Università della Basilicata), Sara Civello (Total E&P Italia), Francesco Federici (Edison Spa), Stefano Tavani (Università di Napoli Federico II), Emanuele Tondi (Università di Camerino), Pierluigi Vecchia (Petroceltic Italia), Valentina Zampetti (Shell Holland)

Aula A35

18-1 08.30 - 08.45

Calabrò R. & Perotti C.R.: Hydrocarbon fields and Plate Tectonics: the example of Mesopotamian Petroleum System

18-2 08.45 - 09.00

Barredo S. & Stinco L.: Geodynamic and tectonic modeling of the basins with unconventional shale reservoirs of Argentina

18-3 09.00 - 09.15

Pinter P.R., Butler R.W.H., Hartley A.J. & Maniscalco R.: Deep-water sandstones in tectonically complex systems: the Numidian of Sicily as an example

18-4 09.15 - 09.30

Cotti A., Dall'Igna M., Federici F. & Marchese M.: Sequence-stratigraphic approach to turbiditic systems through spectral decomposition of seismic data: a case study from offshore Falkland Islands

18-5 09.30 - 09.45

Cruciani F., Barchi M.R., Carboni F. & Porreca M.: Kinematic evolution of a giant-scale, gravity driven deep-water fold-and thrust belt: the Lamu Basin case history (East Africa)

18-6 09.45 - 10.15

(KEYNOTE) Moretti I.: The role of geoscientists in the new world of energy

18-7 10.15 - 10.30

Samperi L., Omosanya K.O., Minelli G. & Johansen S.E.: Seismic interpretation and hydrocarbon prospectivity along the Veslemøy High, SW Barents Sea.

18-8 10.30 - 10.45

Maestrelli D., Iacopini D., Jihad A., Bond C. & Bonini M.: Seismic characterization of fluid escape pipes from the Loyal Field (Scotland, UK) using high resolution 4D seismic surveys

18-9 10.45 - 11.00

Iacopini D., Alvarenga R.S., Kuchle J., Scherer C., Goldberg K. & Kneller B.: Challenges in the seismic characterization of the sub-salt Cretaceous Offshore Rift Section of the Campos Basin, Offshore Brazil

S 22. Morphodynamic processes at the seabed and in the Plio-Quaternary stratigraphic record of continental margins: georesources and potential geohazards

Conveners and Chairpersons: Francesca Budillon (CNR-IAMC Napoli), Silvia Ceramicola (OGS Trieste), Francesco L. Chiocci (Università di Roma La Sapienza), Maria Rosaria Senatore (Università del Sannio), Fabiano Gamberi (CNR-ISMAR Bologna), Attilio Sulli (Università di Palermo)

Aula A28

22-1 08.30 - 09.00

(KEYNOTE) Gorini C., d'Acromont E., Lafosse M., Rabaute A., Ercilla G., Belén A., Ammar A., Ceramicola S., Estrada F., Galingo J., Le Roy P., Mercier de Lépinay B., El Mounni B., Poort J. & Vazquez J.-T.: Offshore active fault system and sedimentation in the Al Hoceima region from new high-resolution bathymetric and seismic reflection data

22-2 09.00 - 09.15

Distefano S., Baldassini N., Barreca G., Maniscalco R., Monaco C. & Di Stefano A.: Onshore to offshore stratigraphic-structural correlation in the north-eastern Lampedusa area (Sicily Channel, Mediterranean sea)

22-3 09.15 - 09.30

Misuraca M., Cosentino D., Di Fiore V. & Ferraro L.: Post-orogenic evolution of the central Tyrrhenian margin: insights from high penetration and high resolution seismic reflection profiles

22-4 09.30 - 09.45

Ventura G., Passaro S., Tamburrino S., Vallefuoco M., Tassi F., Vaselli O., Giannini L., Chiodini G., Caliro S., Sacchi M. & Rizzo A.: Seabed morphology, sub-seabed structure, and deformation mechanism of an active degassing field (Gulf of Naples, Italy)

22-5 09.45 - 10.00

Rashed H., Rovere M., Pecchioni E., Gamberi F. & Vaselli O.: Mineralogical and geochemical characterization of marine sediments from the mud diapir province of the Paola Basin (Southern Tyrrhenian Sea)

22-6 10.00 - 10.15

Ceramicola S., Candoni O., Praeg D., Zecchin M., Forlin E., Cova A., Muto F. & Critelli S.: Morphodynamic processes and marine geohazards assessment in the Ionian Calabrian continental margin

22-7 10.15 - 10.30

Lucchi R.G., Pedrosa M.T., Camerlenghi A., Urgeles R., De Mol B. & Rebesco M.: Recent submarine landslides on the continental slope of Storfjorden and Kveithola Trough-Mouth Fans (north west Barents Sea)

22-8 10.30 - 10.45

Orrù P.E., Deiana G., Lecca L., Meleddu A. & Panizza V.: Gravitational processes of Last Glacial Maximum palaeo shoreline in the Sardinian Continental Margin

22-9 10.45 - 11.00

Agate M., Sprovieri M., Passaro S., Tamburrino S., Sulli A., Vallefucio M., Giaramita L., Placenti F., Polizzi S., Lo Iacono C. & Incarbona A.: Eustatic and oceanographic control on sedimentary evolution of middle-late Quaternary shelf margin-to-upper slope deposits on the Egadi Islands offshore (Italy)

S 26. Remote sensing for the Geosciences and the Environment

Conveners and Chairpersons: Francesca Bozzano (Università di Roma La Sapienza), Domenico Calcaterra (Università di Napoli Federico II), Alessandro Ferretti (TRE Europa), Paolo Mazzanti (Nhazca), Alfredo Rocca (Nhazca)

Aula DSU3

26-1 08.30 - 09.00

(KEYNOTE) Lanari R.: Radar interferometry from space for the investigation of surface deformations: 25 years of observations and technological developments

26-2 09.00 - 09.15

Bonì R., Cigna F., Bricker S., Meisina C. & McCormack H.: Application of Persistent Scatterer Interferometry technique to estimate the Chalk aquifer properties in the London Basin

26-3 09.15 - 09.30

Caporossi P. & Mazzanti P.: UAV photogrammetric survey of the Poggio Baldi Landslide (Santa Sofia, North Apennine, Italy)

26-4 09.30 - 09.45

Vitagliano E., Scafetta N., Di Maio R., Calcaterra D. & Zanchettin D.: Isostatic rebound between the riverbanks and the discharge of the Po River (northern Italy) by wavelet coherence analysis of high-resolution remote sensing and discharge data

26-5 09.45 - 10.00

Giannico C., Del Conte S., Tamburini T., Ferretti A. & Barla G.: InSAR applied to tunneling: examples and recent advances

26-6 10.00 - 10.15

Baiocchi V., Giammarresi V., Giannone F., Ialongo R., Liso L., Piccaro C., Vatore F. & Vecchio M.: First tests of Imaging rover techniques for the

geomatic restitution of a sinkhole: the test site known as “Pozzo del Merro”

26-7 10.15 - 10.30

Marinangeli L., Pompilio L, Baliva A., Cardinale M., Tangari A.C., Agostini S. & Colantuono L.: A multidisciplinary and multispectral approach to characterise the Corfinio archeological site (AQ)

26-8 10.30 - 10.45

Rossini M., Panigada C., Zaady E., Tagliabue G., Celesti M., Cogliati S., Colombo R., Rascher U. & Miglietta F.: Mapping of biogenic soil crusts based on innovative remote sensing methods

26-9 10.45 - 11.00

Romeo S., Di Matteo L. & Kieffer D.S.: Contribution of remote sensing to landslide integrated monitoring system: the use of ground-based SAR interferometry in Austrian Alps

S 28. Geomorphological mapping as a fundamental tool for hazards assessment and risks mitigation

Conveners and Chairpersons: Alessandro Chelli (Università di Parma), Laura Coco (Università di Chieti-Pescara G. D'Annunzio), Francesco Dramis (Università di Roma Tre), Domenico Guida (Università di Salerno), Marco Materazzi (Università di Camerino), Gilberto Pambianchi (Università di Camerino), Luisa Pellegrini (Università di Pavia)

Aula Piovani

28-1 08.30 - 09.00

(KEYNOTE) Campobasso C. & Dramis F.: The new ISPRA-AIGEO object-based geomorphological mapping model

28-2 09.00 - 09.15

Aringoli D., Farabollini P., Giacometti M., Materazzi M. & Pambianchi G.: Proposal of a new geomorphological legend for flood hazard evaluation and associated risk. Study cases in the Marche region (central Italy)

28-3 09.15 - 09.30

Giardino M., Bacenetti M., Perotti L. & Fubelli G.: Geomorphological mapping of mountain regions: examples of a new GIS-based approach in the Western Alps

28-4 09.30 - 09.45

Brandolini P., Faccini F. & Paliaga G.: Geomorphological mapping in urban area: changes in stream network of Genoa historical city (Liguria, Italy)

28-5 09.45 - 10.00

Rizzo A.M. & Valiante M.: Geomorphological map of Mt. Pruno southern slope, Roscigno, Cilento, Vallo di Diano and Alburni Geopark

28-6 10.00 - 10.15

Magliulo P. & Valente A.: GIS-based geomorphological map of the Calore River alluvial plain near Benevento (southern Italy) overflowed by the 15th October 2016 event

28-7 10.15 - 10.30

Forno M.G., Gattiglio M., Taddia G. & Lo Russo S.: DSGSD developed along the Cenischia-Nizza tectonic system in the Rodoretto Valley (Western Alps)

28-8 10.30 - 10.45

Palma B., Parise M., Ruocco A. & Calcaterra D.: Geothematic maps as a supporting tool for the choice of engineering works in complex volcanic cliffs: the Ponza case study, central Italy

28-9 10.45 - 11.00

Guida D., Cuomo A., Dramis F., Cestari A., Siervo V. & Palmieri V.: Objective Geomorphological Mapping at Capo Licosa (Cilento Global Geopark, Italy)

S 31. Traditional and innovative approaches for hydrogeological surveys and monitoring

Conveners and Chairpersons: Paolo Fabbri (Università di Padova), Mariachiara Caschetto (Università di Roma La Sapienza), Maria Filippini (Università di Bologna), Marco Masetti (Università di Milano), Sergio Rusi (Università di Chieti-Pescara G. D'Annunzio), Glenda Taddia (Politecnico di Torino), Rosa Di Maio (Università di Napoli)

Aula A36

31-1 08.30 - 08.45

Allocca V., Corniello A., De Vita P., Ducci D., Pizzolante A. & Romano N.: Hydrogeological and vadose zone studies in the framework of the "Campania Trasparente" project (southern Italy)

31-2 08.45 - 09.00

Rani P., Di Maio R., Piegari E., Soupios P. & Milano L.: Time evolution of self-potential anomaly sources due to organic contaminant transport by different data inversion approaches

31-3 09.00 - 09.15

Di Curzio D. & Rusi S.: Multidisciplinary approach and modeling of a case of complex contamination in an Adriatic coastal aquifer

31-4 09.15 - 09.30

Marchesi M., Pietrini I., Stella T., Antelmi M., Antonelli D., de Ferra F., Franzetti A., Shouakar-Stash O., Aravena R. & Alberti L.: Chlorinated solvents contaminated site characterization by the use of advanced techniques: multilevel sampling, CSIA, BMTs and numerical modeling

31-5 09.30 - 09.45

Taddia G., Dabove P., Cerino Abdin E., Manzano A.M. & Lo Russo S.: Open-Loop Groundwater Heat Pump System: dynamic behavior and cross-correlation between the groundwater temperature and electrical conductivity

31-6 09.45 - 10.00

Lancia M., Saroli M. & Petitta M.: Permeability evaluation of fractured rock-masses in the Cassino area (central Italy)

31-7 10.00 - 10.15

Pola M., Fabbri P., Piccinini L., Zampieri D., Dalla Libera N. & Cacace M.: The role of fault damage zones in fluid flow: the case study of the Euganean Geothermal System (NE Italy)

31-8 10.15 - 10.30

Barberio M.D., Billi A., Doglioni C., Lacchini A., Marinelli V. & Petitta M.: Groundwater change and seismic activity: hydrogeological monitoring as a possible key to identification of seismic precursors

31-9 10.30 - 10.45

Allocca V., Coda S., De Vita P., Iorio A. & Viola R.: Piezometric level rise in the coastal alluvial plain of Naples (southern Italy) and its influence on civil engineering structures

31-10 10.45 - 11.00

Menghini A. & Viezzoli A.: Airborne EM mapping over large areas for the hydrogeological study of the Peace River Basin, British Columbia, Canada. Preliminary results

S 34. Cultural Heritage in marine and subaerial environment: knowledge, development, fruition and protection

Conveners and Chairpersons: Giuseppina Balassone (Università di Napoli Federico II), Alessandra Bonazza (CNR-ISAC Bologna), Celestino Grifa (Università del Sannio), Mauro La Russa (Università della Calabria), Antonino Pezzino (Università di Catania), Carmela Vaccaro (Università di Ferrara)

Aula A32

34-1 08.30 - 09.00

(KEYNOTE) Sabbioni C.: Environment and cultural heritage interaction: current state and future perspectives

34-2 09.00 - 09.15

Balassone G., Campanelli A., Di Maio G., Iannelli M.A., De Bonis A., Di Benedetto C., Graziano S.F., Guarino V., Rispoli C., Cappelletti P. & Morra V.: The Roman *villa* of Positano (southern Italy): preliminary mineralogical study of various archaeological findings

34-3 09.15 - 09.30

De Bonis A., Arienzo I., D'Antonio M., Germinario C., Grifa C., Guarino V., Langella A., Mercurio M., Amore F.O., Barra D., Aiello G. & Morra V.: Raw materials for archaeological pottery: a multi-analytical approach

34-4 09.30 - 09.45

Pagnotta S., Bruschini M., Grifoni E., Legnaioli S., Lezzerini M., Lorenzetti G., Palleschi V. & Radi G.: Graph theory applied to Laser Induced Breakdown Spectroscopy for the preliminary clustering of archaeological pottery

34-5 09.45 - 10.00

Photos-Jones E., Christidis G.E., Piochi M., Keane C., Mormone A., Balassone G., Perdikatsis V. & Leanord A.: Testing Greco-Roman medicinal minerals: the case study of solfataric alum

34-6 10.00 - 10.15

Ruffolo S.A., Cerioni A.M., De Santis M., Alvarez de Buergo M., Crisci G.M. & La Russa M.F.: The role of diagnostic analysis in the restoration of the Fontana di Trevi in Rome

34-7 10.15 - 10.30

Volpe L., Maino G. & Vaccaro C.: Multianalytical investigation for dating purpose of contemporary artworks: test case on "Cubist Figure", attributed to Pablo Picasso

34-8 10.30 - 10.45

Germinario C., Cultrone G., Izzo F., Langella A., Mercurio M. & Grifa C.: Micro-Raman spectroscopy in the definition of provenance and technological characterisation of pottery: the study of Campanian Late Roman productions by means of a pseudo-correlative approach

34-9 10.45 - 11.00

Ricca M., Rovella N., Comite V., Crisci G.M., Macchia A., Ruffolo S.A. & La Russa M.F.: New antifouling products for in situ conservation of archaeological artefacts located in underwater environment

POMERIGGIO/AFTERNOON

(15.30-18.00)

S 1. Earthquakes and Active Tectonics: a multidisciplinary approach

Conveners and Chairpersons: Claudio Chiarabba (INGV-Roma1), Giulio di Toro (Università di Manchester), Michele Fondriest (Università di Manchester), Paolo Galli (Dipartimento Protezione Civile), Aldo Zollo (Università di Napoli Federico II)

Aula Coviello (A29)

1-11 15.30 - 15-45

Iannace P., Milia A. & Torrente M.M.: 3-D structural model of the active fault zones in the Salento Peninsula offshore (Ionian Sea, Italy)

1-12 15.45 - 16.00

Maesano F.E., Tiberti M.M. & Basili R.: Three-dimensional modelling of the Calabrian Subduction interface from the interpretation of seismic reflection profiles

1-13 16.00 - 16.15

Serpelloni E., Vannucci G., Anderlini L. & Bennett R.A.: Kinematics, Seismotectonics and Seismic Potential of the Eastern Southern Alps From GPS and Seismic Deformation data

1-14 16.15 - 16.30

Amoroso O., Russo G., De Landro G., Zollo A., Garambois S., Mazzoli S., Parente M. & Virieux J.: High resolution 3D imaging of the Irpinia active fault zone

1-15 16.30 - 16.45

Valoroso L.: High-resolution earthquake catalogs to characterize fault zone structure and its properties

1-16 16.45 - 17.00

Cardello G.L. & Mancktelow N.: Veining and post-nappe transtensional faulting in the SW Helvetic Alps (Switzerland)

1-17 17.00 - 17.15

Collettini C., Scuderi M.M., Tinti E., Viti C. & Marone C.: Laboratory Insights for the Spectrum of Earthquake Failure Modes

1-18 17.15 - 17.45

(KEYNOTE) Pascal B.: The multi-scale cross-coupling between transient deformation and earthquakes

1-19 17.45 - 18.00

Pozzi G., De Paola N., Nielsen S. & Holdsworth R.E.: Can grain size sensitive creep lubricate faults during earthquake propagation?

S 4. Fluid-rock interactions: metamorphism, geothermal resources, faulting processes and induced seismicity

Conveners and Chairpersons: Cristiano Collettini (Università di Roma La Sapienza), Luigi Improta (INGV-Roma1), Mimmo Palano (INGV-Catania), Federico Rossetti (Università di Roma Tre), Anna Tramelli (INGV-OV)

Aula Amirante (A27)

4-1 15.30 - 15-45

Malatesta C., Federico L., Crispini L. & Capponi G.: From ductile to brittle deformation at blueschist-facies conditions: implications for fluid flow in subduction zones

4-2 15.45 - 16.00

Zucchi M., Rimondi V., Liotta D., Brogi A., Ruggieri G., Caggianelli A., Montegrossi G. & Dini A.: Geological structures, HT-fluids flow and permeability in the exhumed geothermal system of Eastern Elba Island (Italy): the case of Cala Stagnone

4-3 16.00 - 16.15

Scuderi M.M. & Collettini C.: The role of fluid pressure in fault creep vs. frictional instability: insights from rock deformation experiments on carbonates

4-4 16.15 - 16.45

(KEYNOTE) Rinaldi A.P., Urpi L., Rutqvist J., Cappa F., Vilarrasa V. & Jeanne P.: Modeling fault reactivation induced by CO₂ underground injection

4-5 16.45 - 17.00

Carlino S., De Natale G., Tramelli A., Di Giuseppe M.G., Troiano A., Troise C. & Somma R.: Geothermal exploitation and fluids withdrawal/reinjection: a numerical modelling for implication on induced seismicity

4-6 17.00 - 17.15

Bagh S., Improta L., De Gori P., Valoroso L., Piccinini D., Buttinelli M., Pastori M., Anselmi M. & Chiarabba C.: Reservoir structure and induced seismicity at the Val d'Agri oilfield (Southern Italy) shown by local earthquake tomography

4-7 17.15 - 17.30

Piccinini D., Atzori S., Bagh S., Bruni R., Buttinelli M., Convertito V.,

Currenti G., Improta L., Nespoli M., Palano M., Tesei T., Todesco M., Valoroso L., Vicari A. & Saccorotti G.: Multiparametric modelling of Reservoir Induced Seismicity (RIS): The Pertusillo Lake (Val d'Agri, Italy) case study

4-8 17.30 - 18.00

(KEYNOTE) Carcione J.M.: Modeling and imaging of induced-microseismic events

S 8. Tectonics and igneous activity

Conveners and Chairpersons: Giacomo Corti (Università di Firenze), Roberto Isaia (INGV-OV), Giovanni Leone (ETH Zurich), Michele Lustrino (Università di Roma La Sapienza), Stefano Vitale (Università di Napoli Federico II)

Aula DSU4

8-1 15.30 - 15-45

(KEYNOTE) Elkins-Tanton L. & Tikoo S.: Water gain and loss and the advent of plate tectonics during the formation of the Earth

8-2 15.45 - 16.00

Leone G., Di Achille G. & Salese F.: Distribution of valleys, tectonics and volcanic features on Mars: insights on the formation processes during the evolution of the planet

8-3 16.00 - 16.15

Nahm A.L., Pendleton M.W. & Kattenhorn S.A.: Formation by dike intrusion for Cerberus Fossae, Mars

8-4 16.15 - 16.30

Di Giuseppe P., Agostini S., Lustrino M., Savaþçýn M.Y., Karaođlu Ö., Ersoy Y. & Manetti P.: Neogene volcanism around the Karlýova triple junction (Eastern Turkey)

8-5 16.30 - 16.45

Sunkari E.D. & Gürsu S.: Petrogenetic Features of the Granitic Pebbles within the Late Ordovician Glacial Diamictites in Tauride-Anatolide Platform of Turkey: Implication of the island arc/A-type magmatic rocks of the Sinai Peninsula

8-6 16.45 - 17.00

(KEYNOTE) Ruch J., Wang T., Xu W., Hensch M. & Jónsson S.: Oblique rift opening and fault reactivation revealed by episodic magma intrusions in central Iceland

8-7 17.00 - 17.15

Cardello G.L., Conti A., Consorti L. & Do Couto D.: Fault-controlled

volcanic vents between the Volsci Range and the magma-rich Tyrrhenian passive margin (Italy)

8-8 17.15 - 17.30

Loreto M.F., Pepe F., De Ritis R., Ventura G., Ferrante V., Speranza F., Tomini I. & Sacchi M.: Geophysical investigation of Pleistocene volcanism and tectonics offshore Capo Vaticano (Calabria, southeastern Tyrrhenian Sea)

8-9 17.30 - 17.45

Piochi M., Isaia R., Giaccio B., Mormone A., Calabrò L., Mozio C., Moretti R., Zanchetta G. & Santacroce R.: The Codola eruption in the potassic-rich belt of the Southern Italy: new constraints on the eruptive dynamics and magma evolution

8-10 17.45 - 18.00

Isaia R., Aiello G., Barra D., Ciarcia S., Iannuzzi E., Marturano A., Prinzi E., Tramparulo F.d'A. & Vitale S.: New data from the central sector of the Campi Flegrei to constraint the long term ground deformation pattern of the caldera

S 13. Coastal changes, from past records to future trends: proxy analysis, modelling and monitoring

Conveners and Chairpersons: Fabio Matano (CNR-IAMC Napoli), Pietro P. C. Aucelli (Università di Napoli Parthenope), Stefano Carlino (INGV-OV), Riccardo Salvini (Università di Siena), Marcello Schiattarella (Università della Basilicata)

Aula A33

13-10 15.30 - 15-45

(KEYNOTE) Giordan D.: The use of innovative monitoring systems for evaluation of rock slope instabilities and coastal dynamic

13-11 15.45 - 16.00

De Natale G., Troise C., Sacchi M., Zeni L., Matano F., Somma R., Carlino S., Caputo T. & Esposito G.: Innovative Monitoring of Coastal and Marine Environment – The MONICA project

13-12 16.00 - 16.15

Esposito G., Salvini R., Matano F., Sacchi M., Somma R., Soravia M., Tammaro U., Troise C. & De Natale G.: Retreat rates estimation of the Torrefumo coastal cliff, Campi Flegrei volcanic district, Southern Italy

13-13 16.15 - 16.30

Francioni M., Coggan J.S., Eyre M.L., Vanneschi C., Penfound-Marks

L.R.G. & Stead D.: A multi-scale and multi-disciplinary approach for the study and monitoring of rocky coastlines

13-14 16.30 - 16.45

Aucelli P.P.C., Cinque A., Giordano F., Mattei G. & Pappone G.: Landscape changes along the coasts of Naples Gulf since the Roman times, inferred from new geoarchaeological data

13-15 16.45 - 17.00

Di Leo P., Bavusi M., Corrado G., Danese M., Giammatteo T., Gioia D. & Schiattarella M.: Ancient settlement dynamics and predictive archaeological models for the Metapontum coastal area in Basilicata, southern Italy: from geomorphological survey to spatial analysis

13-16 17.00 - 17.15

Passaro S., Sacchi M., Matano F., Molisso F., Vallefucio M., Tamburrino S. & Ventura G.: Geomorphology and vertical rate of subsidence in the last ≈ 2 ky in the coastal sectors of the Pozzuoli Bay, Phlegrean Fields Caldera, Naples (Italy)

13-17 17.15 - 17.30

Cinque A., Ruello M.R., Russo Ermolli E., Di Donato V., Molisso F., Ciampo G. & Terrasi F.: Interplay between sea level rise and tectonics in the Holocene evolution of the Sant'Eufemia plain (Calabria)

13-18 17.30 - 17.45

Mastronuzzi G., Stamatopoulos L., Milella M., Piscitelli A. & Sansò P.: Coastal morphology, sea level changes and tectonic in the Holocene of Othoni and Kerkira islands (Ionian Island, Greece)

13-19 17.45 - 18.00

Schiattarella M., Putignano M.L., Orrù P.E. & Voltaggio M.: Late Pleistocene sea-level changes and vertical movements between Formia and Minturno, central Italy

S 18. New challenges in Petroleum Geology

Conveners and Chairpersons: Fabrizio Agosta (Università della Basilicata), Sara Civello (Total E&P Italia), Francesco Federici (Edison Spa), Stefano Tavani (Università di Napoli Federico II), Emanuele Tondi (Università di Camerino), Pierluigi Vecchia (Petroceltic Italia), Valentina Zampetti (Shell Holland)

Aula A35

18-10 15.30 - 15-45

Costanzo A., Feely M. & Hunt J.: The Application of Fluid Inclusion Studies

to the Investigation of Aqueous and Hydrocarbon Fluid Dynamics in Oil Prospective Basins

18-11 15.45 - 16.00

Schito A., Corrado S., Romano C., Guedes A. & Grigo D.: Raman spectroscopy: an insight into the chemical short-range order of kerogen for the assessment of thermal maturity

18-12 16.00 - 16.15

Shiner P. & Turrini C.: The tectono-stratigraphic context of carbonate petroleum systems in the Adriatic

18-13 16.15 - 16.30

Korneva I., Rotevatn A., Bastesen E., Corlett H., Eker A., Hirani J., Hollis C., Gawthorpe R.L. & Taylor R.: Hydrothermal dolomites in carbonate-dominated rifts: spatial and temporal distribution, petrophysical properties and fracture intensity (Hammam Faraun Fault Block, Suez Rift, Egypt)

18-14 16.30 - 16.45

Zambrano M., Tondi E., Mancini L., Trias F.X., Arzilli F. & Lanzafame G.: Quantitative Analysis of Pore-Network and Permeability Estimation in Deformed Porous Carbonate Grainstones

18-15 16.45 - 17.15

(KEYNOTE) Mutti M.: Heterogeneities in carbonate settings across scales

18-16 17.15 - 17.30

Perri E., Tucker M.E. & Słowakiewicz M.: Microbial mats and microbialites: mineral precipitates and source-rock potential (Mesaieed Sabkha, Qatar)

18-17 17.30 - 17.45

Lipparini L., Trippetta F., Ruggieri R., Brandano M. & Romi A.: Densely spaced historic drilling data & modern 3D reservoir modelling of a carbonate oil field (Maiella Mountain, Central Italy); heavy oil distribution and its controlling factors

18-18 17.45 - 18.00

Volatili T., Zambrano M., Cilona A., Huisman B.A.H., Tondi E. & Giorgioni M.: From fracture analysis to flow simulations of fractured carbonates: the case study of Roman Valley Quarry

S 22. Morphodynamic processes at the seabed and in the Plio-Quaternary stratigraphic record of continental margins: georesources and potential geohazards

Conveners and Chairpersons: Francesca Budillon (CNR-IAMC Napoli), Silvia Ceramicola (OGS Trieste), Francesco L. Chiocci (Università di Roma)

La Sapienza), Maria Rosaria Senatore (*Università del Sannio*), Fabiano Gamberi (*CNR-ISMAR Bologna*), Attilio Sulli (*Università di Palermo*)

Aula A28

22-10 15.30 - 15-45

Lo Iacono C., Gales J., Aslam T., Hall R., Guerrero Q., Carter G., Robert K., Guillen J., Le Bas T., Wynn R. & Huvenne V.: Upslope vs downslope asymmetric bedforms evidence complex oceanographic patterns at the head of a submarine canyon

22-11 15.45 - 16.00

Di Blasi. F & Gamberi F.: Allogenic vs. autogenic controls on turbidite systems erosional behaviour: an example from the Capo Ferrata turbidite system (Eastern Sardinian Margin)

22-12 16.00 - 16.15

Longhitano S.G.: Sedimentology of supercritical-flow features preserved in the lower Pleistocene deltaic succession of the Messina Strait (Calabria, Italy)

22-13 16.15 - 16.30

Casalbore D., Ridente D., Bosman A. & Chiocci F.L.: Erosive and depositional processes on shelf prodeltaic deposits linked to a "Fiumara" river in the Gulf of Patti (NE Sicilian margin)

22-15 16.45 - 17.00

Conforti A., De Falco G., Batenburg S.J., Bosman A., Budillon F., Hatsukano K., Simeone S., Voigt S. & Bahr A.: Evolution of the coastal barrier-lagoon system offshore Cabo-Frio – Rio de Campos (E-Brazil) during the late Quaternary transgression

22-14 16.30 - 16.45

Budillon F., Amodio S., Conforti A., De Falco G., Di Martino G., Innangi S., Tonielli R., Donati A. & Lubritto C.: Comparing present-day and relict coastal wedges along the continental margin off Campania; geographical exposure and geological setting

22-16 17.00 - 17.15

Martorelli E., Bosman A., Casalbore D. & Falcini F.: Upper Pleistocene contourite deposits off the Capo Vaticano margin (southern Tyrrhenian Sea, Italy): interplay between down-slope and along-slope sedimentary processes

22-17 17.15 - 17.30

Casalbore D., Bosman A., Romagnoli C. & Chiocci F.L.: Seafloor waveforms in submarine volcanic setting as proxy of active sedimentary dynamics

22-18 17.30 - 17.45

Savini A., Verdicchio G., Marchese F., Vertino A., Bistacchi A. & Corselli

C.: Geomorphic and tectonic control on the distribution of coral-topped mounds in the northern Ionian margin (eastern Mediterranean Sea)

22-19 17.45 - 18.00

Ingrassia M., Argenti L., Martorelli E. & Chiocci F.L.: Fine-scale distribution of coralligenous and maërl habitats off the western Pontine Archipelago (central-Tyrrhenian Sea)

S 26. Remote sensing for the Geosciences and the Environment

Conveners and Chairpersons: Francesca Bozzano (Università di Roma La Sapienza), Domenico Calcaterra (Università di Napoli Federico II), Alessandro Ferretti (TRE Europa), Paolo Mazzanti (Nhazca), Alfredo Rocca (Nhazca)

Aula DSU3

26-10 15.30 - 16.00

(KEYNOTE) Salvini R.: The application of modern technologies of Geomatics in the Engineering Geology

26-11 16.00 - 16.15

Gandolfo L., Busnardo E., Castellarin N., Canella F., Canella C., Stabile M., Curci F. & Petrillo G.: The role of national regulations in RPAS-based mapping projects in the monitoring of natural hazards that could involve infrastructure: the example of the Val Venosta Railway (Northern Italy – Bolzano)

26-12 16.15 - 16.30

Nardò S., Ascione A., Buscher J.T. & Valente E.: Active faults and ground deformation in the southern Matese area (Campania region)

26-13 16.30 - 16.45

Carlino S., Troise C., Mirabile M., Sacchi M., Zeni L., Minardo A., Caccavale M., Darányi V. & De Natale G.: Temperature remote sensing of submerged calderas: an application to off-shore sector of Campi Flegrei caldera (Southern Italy)

26-14 16.45 - 17.00

Vanneschi C., Coggan J., Mastrorocco G., Francioni M., Eyre M.L. & Salvini R.: Remote sensing techniques in underground mining: Application of terrestrial LIDAR for stability analysis and optimization of excavation activities

26-15 17.00 - 17.15

Bordoni M., Boni R., Meisina C., Colombo A., Lanteri L. & Zucca F.: Multi-

sensor SAR data for landslide inventory updating: the case study of Piemonte Region

26-16 17.15 - 17.30

Corucci L., Testa L. & Meta A.: Applications of the MetaSensing's FastGBSAR for vibration and deformation monitoring

26-17 17.30 - 17.45

Bianchi Fasani G., Mazzanti P., Robiati C., Rocca A. & Urbini S.: Assessment of the geomorphodynamic evolution of the Boulder Clay Glacier area (Terra Nova Bay, Antarctica) by SAR spaceborne interferometric analysis

26-18 17.45 - 18.00

Infante D., Confuorto P., Di Martire D., Ramondini M. & Calcaterra D.: Integrated analysis of DInSAR and buildings damage data for preliminary vulnerability assessment of urban settlements affected by slow-moving landslides

S 29. Geomorphological-hydraulic risk and human impact: analysis of the processes and solutions

Conveners and Chairpersons: Corrado Cencetti (Università di Perugia), Piero Farabollini (Università di Camerino), Andrea Fredduzzi (Università di Perugia), Marco Giacometti (Università di Camerino)

Aula Piovani

29-1 15.30 - 16.00

(KEYNOTE) Tacconi P.: Fluvial Dynamics – the morphological-sedimentary approach

29-2 16.00 - 16.15

Mandarino A., Maerker M. & Firpo M.: 150 years of shifts: channel mobility of the lower Scrivia river reach

29-3 16.15 - 16.30

Dragone V., Muciaccia M., Basso A., Ciciretti L., Palombella M. & Polemio M.: A multiple approach to support geo-hydrological risk mitigation pursued by the land reclamation authority (Gargano, Apulia)

29-4 16.30 - 16.45

Farabollini P., Aringoli D., Giacometti M., Materazzi M., Pambianchi G., Tromboni M., Cochetta C., Mangoni M. & Viti F.: Hydro-geomorphological risk in the central and southern Marche: survey, analysis of river criticalities and proposals of intervention

29-5 16.45 - 17.00

Di Francesco R., Farabollini P. & Scaletta G.: Fluvial erosion and landslides processes affecting the pelitic bedrock in the riverbed: examples from middle-lower Marche-Abruzzi fluvial river

29-6 17.00 - 17.15

Scopesi C., Rellini I., Firpo M., Schmaltz E., Maerker M. & Olivari S.: Assessment of land cover changes on flood generation in a small Mediterranean catchment using an SCS-CN modeling approach: A case study in the Vernazza catchment, Cinque Terre National Park, Liguria, Italy

29-7 17.15 - 17.30

Dogliani A. & Simeone V.: Simulation of Natural Hazard related to a severe flood event in a network of ephemeral streams

29-8 17.30 - 17.45

Santangelo N., Santo A., Scorpio V., Forte G., De Falco M. & Vennari C.: Flash flood hazard in Campania (Southern Apennines): the state of knowledge

29-9 17.45 - 18.00

Cencetti C., De Rosa P. & Fredduzzi A.: Analysis and characterization of historical and recent landslide dams in the Umbria-Marche Apennine area

S 30. Groundwater resource among human needs, reuse and environmental requirements

Conveners and Chairpersons: Alfonso Corniello (Università di Napoli Federico II), Antonella Baiocchi (Università della Tuscia), Emma Petrella (Università di Parma), Maurizio Polemio (CNR-IRPI Bari), Michele Saroli (Università di Cassino e del Lazio Meridionale), Marco Tallini (Università de L'Aquila)

Aula A36

30-1 15.30 - 16.00

(KEYNOTE) Candela L.: Wastewater reuse: Weighing the pros & cons of soil and groundwater application

30-2 16.00 - 16.15

Banzato F., Campagnoli L., Morabito G., Orpianesi S., Pollastrelli A. & Petitta M.: Optimization of groundwater and surface water resources integrated management in protected areas: San Chiodo Spring, Sibillini Mounts, Central Italy

30-3 16.15 - 16.30

Saroli M., Lancia M. & Petitta M.: The hydrogeology of the Cassino basin from Boni to Celico: 30 years later

30-4 16.30 - 16.45

Esposito L., Fiorillo F., Testa G., Vernacchia L., Catani V., Revellino P. & Guadagno F.M.: Geological structural effects on groundwater flows: the case of the Riardo Plain (Southern Italy)

30-5 16.45 - 17.00

Armiento G., Baiocchi A., Crovato C., Lotti F., Mazzuoli M., Nardi E., Piscopo V. & Proposito M.: Distribution of arsenic in rocks and groundwater of Cimino-Vico volcanic area: what can be inferred to identify water resources for human consumption

30-6 17.00 - 17.15

Corniello A., Ducci D., Sellerino M., Stellato L., Del Gaudio E., Di Rienzo B. & Tessitore S.: New considerations about nitrate content in groundwater of the alluvial-pyroclastic aquifer of the Campanian Plain (southern Italy)

30-7 17.15 - 17.30

Dalla Libera N., Fabbri P., Mason L., Piccinini L. & Pola M.: Exceedance probability of some arsenic threshold values

30-8 17.30 - 17.45

Gremillion P.: Balancing the Needs of Stakeholders and Ecosystems in the Management of the Nubian Aquifer, Northeast Africa

30-9 17.45 - 18.00

Alberti L., Azzellino A., Colombo L., Cantone M. & Lombi S.: Multivariate data analysis and numerical modeling: a combined approach to assess the Groundwater contamination in Milan Functional Urban Area

S 34. Cultural Heritage in marine and subaerial environment: knowledge, development, fruition and protection

Conveners and Chairpersons: Giuseppina Balassone (Università di Napoli Federico II), Alessandra Bonazza (CNR-ISAC Bologna), Celestino Grifa (Università del Sannio), Mauro La Russa (Università della Calabria), Antonino Pezzino (Università di Catania), Carmela Vaccaro (Università di Ferrara)

Aula A32

34-10 15.30 - 15-45

Amato V., Ciarcia S., Rossi A. & Santoriello A.: The evaluation of

archaeological potential of the Benevento urban area (Southern Italy) inferred by geological and archeo-stratigraphical data

34-11 15.45 - 16.00

Bentivenga M., Cantarelli V., Guidetti G., Lucente S., Prosser G., Rizzo G. & Soldo G.: A geological, archaeological and anthropological journey throughout the north-eastern Basilicata, Italy

34-12 16.00 - 16.15

Ciantelli C., Déqué M., Palazzi E., Vaccaro C., von Hardenberg J. & Bonazza A.: Impact of a Changing Environment on Panamanian UNESCO sites for a Sustainable Culture

34-13 16.15 - 16.30

Di Donato V., Ruello M.R., Giampaola D., Carsana V., Liuzza V., Di Vito M., Morhange C. & Russo Ermolli E.: The palaeoenvironmental history of the *Neapolis* (Naples, Italy) harbor basin from the Augustan Age up to the Late Antique period

34-14 16.30 - 16.45

Di Luzio E., Carfora P., Caratelli M., Boccuti S., & Petrunaro R.: Understanding rock materials exploitation along the Ancient Appia route by means of integrated geoarchaeological and microstratigraphic analyses

34-15 16.45 - 17.00

Ferraro G., Iannelli M.T., Le Pera E. & Bernasconi M.P.: The archaeological site of Kaulonia (Calabria, southern Italy): new insights from drone surveying and sediment provenance

34-16 17.00 - 17.15

Repola L.: Three-dimensional survey and new forms of representation of the underwater cultural heritage. Island of Vivara

34-17 17.15 - 17.30

Passaro S., Bruno A., Lagudi A. & Saggiomo R.: Merging high-resolution bathymetry and 3D optical data for modelling a submerged archaeological site: a test from Capo Colonna onshore area, Crotona (Italy)

34-18 17.30 - 17.45

Valente A., Bravini A., Della Corte G. & Capobianco A.: Technologies of intervention and management of the remains of the villa of Gneo Fonteio (first century BC) in Gaeta (central Italy)

34-19 17.45 - 18.00

Ruggieri N.: An Inventory Proposal For the Conservation of a Historical Anti-Seismic System

SESSIONI POSTER/POSTER SESSIONS

Area Poster

S 1. Earthquakes and Active Tectonics: a multidisciplinary approach

1-20 Panel 1

Adinolfi G.M., De Matteis R., Festa G., Zollo A., de Nardis R., Ferrarini F., Brozzetti F., Cirillo D. & Lavecchia G.: How many information can be retrieved by applying a multidisciplinary approach to investigate a seismic sequence? Case studies from Italian region

1-21 Panel 2

Adinolfi G.M., De Matteis R., Zollo A., Ascione A. & Mazzoli S.: The 2013, ML 4.9, Matese earthquake (Southern Apennines, Italy): a normal faulting earthquake at an anomalous depth

1-22 Panel 3

Alberti S., Crosta G.B., Rivolta C. & Bertolo D.: Integrated monitoring system GB-InSAR and Terrestrial Laser Scanner for Mont de La Saxe landslide, Italy

1-23 Panel 4

Valerio E., Carminati E., Doglioni C., Polcari M. & Stramondo S.: Pre- and co-seismic surface deformation of graviquakes: the 1997 Colfiorito earthquake (Northern Apennines, Italy)

1-24 Panel 5

Bottari C., Ferranti L., Frisetti A. & Marazzi F.: The 847 AD earthquake: historical sources and archeoseismological indications from the Matese-Volturno area (central-southern Italy)

1-25 Panel 6

Cerchiari A., Mittempergher S. & Remitti F.: Meso- and macroscale analysis of an ancient analogue of a shallow megathrust

1-26 Panel 7

Esposito E., Violante C., Vittori E., Giunta G., Caprai A. & Hernandez M.: A reappraisal of geologic effects induced by February 13, 2001 El Salvador Earthquake

1-27 Panel 8

Filomena L., El Hamdouni R., Muto F., Tripodi V., Critelli S. & Chacon J.: Active tectonic evaluation in the Corace Basin (Central Calabria, Italy): insights from geomorphologic indices

1-28 Panel 9

Imposa S., Grassi S., De Guidi G., Battaglia F., Lanaia G. & Scudero S.: The San Biagio 'Salinelle' mud volcanoes (Belpasso, Sicily): a preliminary 3D subsoil model

1-29 Panel 10

Madonia P. & Favara R.: Geofluid transients as proxies of stress/strain induced permeability variations during the seismogenetic process: some examples from active tectonic and tectono-volcanic areas in southern Italy

1-30 Panel 11

Martin S., Castiglioni G., Lafuenti L., Boaga J., Agnini C., Zorzi F., Fedrizzi F., Viganò A., Monego M. & Favaretti M.: Paleotectonics in the Euganean hills (Venetian region). Preliminary data

1-31 Panel 12

Mattia M., Barreca G., Bottari C., Bruno V., Burrato P., Cultrera F., Dardanelli L., De Gregorio S., Ferranti L., Guzzetta L., Madonia P., Monaco C., Pepe F. & Pipitone C.: First results of an INGV project for the integrated analysis of the active tectonics in SW Sicily

1-32 Panel 13

Pepe F., Dardanelli G., Ferranti L., Corradino M., Napoli G., Orecchio B., Bertotti G., Renda P., Paliaga S., Pipitone C. & Presti D.: Active deformation in a sector of the Sicilian-Maghrebian Chain: new insights from integrated GNSS, structural high-resolution seismic reflection and seismological data

1-33 Panel 14

Perdicaro V., Scudero S., De Guidi G. & Caputo R.: Spatial variation of the crustal stress field in the southern Calabrian Arc

1-34 Panel 15

Pierro M., Ferranti L. & Milano G.: Seismicity in the Mercure basin (Calabria-Lucania border, southern Italy) following the 2010-2013 Pollino seismic sequence: existence of both shallow extensional and deep strike-slip kinematics?

1-35 Panel 16

Poli M.E., Falcucci E., Gori S., Marchesini A., Monegato G., Zanferrari A., Affatato A., Baradello L., Böhm G., Dal Bo I., Forte E., Del Pin E. & Grimaz S.: Looking for active and capable faults in Friuli: a multidisciplinary approach to study the Maniago thrust (western Carnic Prealps, NE Italy)

1-36 Panel 17

Pondrelli S., Meletti C., Rovida A. & D'Amico V.: Seismic moment release and cumulative moment tensor maps of the Italian peninsula

1-37 Panel 18

Smeraglia L., Aldega L., Billi A., Carminati E. & Doglioni C.: Phyllosilicate occurrence along extensional faults in carbonate rocks and implications for seismic slip propagation: case studies from the central Apennines, Italy

1-38 Panel 19

Valentini A., Pace B., Vasta M., Ferranti L., Colella A., Vassallo M. & Montagna P.: Could the collapse of a massive speleothem be the record of a large paleoearthquake?

S 4. Fluid-rock interactions: metamorphism, geothermal resources, faulting processes and induced seismicity

4-9 Panel 20

Aloisi M., Cannata A., Cannavò F., Currenti G., Gambino S., Maiolino V., Maugeri R., Palano M., Privitera E., Pulvirenti M., Scaltrito A., Spampinato S., Ursino A., Velardita R. & Vicari A.: May engineering activities located in Sicily (Southern Italy) "potentially" induce seismicity?

4-10 Panel 21

Buttinelli M., Improta L., Bagh S., Valoroso L., Piccinini D. & Chiarabba C.: Underground geological structures of Val d'Agri (Southern Apennines, Italy) and their relationship with natural and induced seismicity

4-11 Panel 22

Chicco J., Verdoya M., Verda V. & Invernizzi C.: Groundwater flow and low enthalpy geothermal resources: the case study of Marche (Central Italy)

4-12 Panel 23

Cucci L., Tertulliani A., Currenti G. & Palano M.: The dewatering of the Fucino lake (1875) and the occurrence of the M7 Fucino earthquake (1915): is there any relationship?

4-13 Panel 24

Cuoco E., Viaroli S., Arienzo I., Somma R., Mazza R. & Tedesco D.: Thermal waters in the aquifers of Mt. Massico (Campania Region, southern Italy): hydrogeochemical and isotopic ($^{87}\text{Sr}/^{86}\text{Sr}$) characterization

4-14 Panel 25

Fregola R.A., Brogi A., Caggianelli A., Ciccolella A. & Liotta D.: Fluid inclusions, petrological and structural study of quartz-carpholite veins in the Lungro-Verbicaro unit (southern Apennines, Calabria): from subduction to exhumation

4-15 Panel 26

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Ciarcia S., Amato V., Benedetto L. & Pellino R.: Geotourism and professional updating: the experience in Campania (southern Italy)

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De Bonis A., D'Angelo M., Guarino V., Massa S., Saiedi Anaraki F., Genito B. & Morra V.: Unglazed Pottery from the *masjed-i jom'e* of Isfahan (Iran): Technology and Provenance

34-25 Panel 157

De Luca R., Cau Ontiveros M.A., Pecci A., Le Pera E., Bloise A., Apollaro C., Crisci G.M. & Miriello D.: Multi-analytical approach for the study of mortars and plasters from the *Forum of Pollentia* (Mallorca - Spain)

34-26 Panel 158

Di Luzio E., Sottili G., Boccuti S. & Arienzo I.: Chemical-petrographic and isotopic provenance analysis of the volcanic rock pavement along the "Via Appia" between Fondi and Itri; insights for possible geoarchaeological scenarios

34-27 Panel 159

Di Maio G., Balassone G., Bergamasco I., Petrosino P., Ricciardi M. & Stefani G.: Pompeii geoarchaeological setting – An archive older than 40,000 years of volcanism, soil formation and geoarchaeological landscape

34-28 Panel 160

Di Maio G., Iannelli M.A. & Parisi I.: Salerno geoarchaeological landscape reconstructions – Urban geoarchaeology

34-29 Panel 161

Dichicco M.C., Laurita S., Mongelli G., Rizzo G., Sinisi R. & Sogliani F.: Matera (Italy), the European capital of culture 2019: lithoids, resources and cave dwellings

34-30 Panel 162

Graziano S.F., Di Benedetto C., Guarino V., Rispoli C., Cappelletti P. & Morra V.: Geomaterials in roman age: the case study of A41 mausoleum from archeological site of "Porta Mediana" Necropolis, Cuma (Italy)

34-31 Panel 163

Guarino V., Arienzo I., Cappelletti P., D'Antonio M., De Bonis A., Peña J.T., Tibbot G. & Morra V.: Minerogeochemical and geochemical characterisation of pottery from Pompeii

34-32 Panel 164

Guarino V., Triggianese A., Angrisani A.C., Finicelli G., Rispoli C., Di Benedetto C., Graziano S.F., Pagliano A., Calcaterra D., Cappelletti P. &

Morra V.: 3-D pdf model of Gesualdo ancient centre (Avellino province): geomaterials and weathering

34-33 Panel 165

Ricca M., Camara B., La Russa M.F., Alvarez de Buergo M., Fort R. & Ruffolo S.A.: Scientific investigation to compare different cleaning methods on archaeological pottery from the underwater site of Baia (Naples, Italy)

34-34 Panel 166

Rispoli C., Guarino V., Budetta T., De Bonis A., Di Benedetto C., Esposito R., Gotti E., Graziano S.F., Morra V. & Cappelletti P.: *Villa of Pollio Felice*: characterization of mortars

34-35 Panel 167

Sinisi R., Rizzo G., Laurita S. & Mongelli G.: The composition of the ancient Calvello ceramics (Basilicata, southern Italy): preliminary results

34-36 Panel 168

Soffritti C., Fabbri E., Pepi S., Marocchino E., Garagnani G.L. & Vaccaro C.: Chemical and textural investigations on medieval slags from “ex-Monte di Pietà” archaeological site (Emilia-Romagna, Italy)

Venerdì 9 Settembre Friday 9 September

SESSIONI ORALI/ORAL SESSIONS

MATTINA/MORNING

(08.30-11.00)

S 6. Geodynamics and Paleogeography of Tethyan belts: from convergence to exhumation – session dedicated to the memory of Marco Beltrando

Conveners and Chairpersons: Rodolfo Carosi (Università di Torino), Marco G. Malusà (Università di Milano-Bicocca), Massimo Mattei (Università di Roma Tre), Andrea Zanchi (Università di Milano-Bicocca)

Aula Amirante (A27)

6-1 08.30 - 09.00

(KEYNOTE) Montomoli C., Iaccarino S. & Carosi R.: Tectonic and metamorphic discontinuities in the Greater Himalayan Sequence in Central Himalaya: new perspectives for exhumation models

6-2 09.00 - 09.15

Ballato P., Cifelli F., Heidarzadeh G., Ghassemi M., Wickert A., Hassanzadeh J., Dupont-Nivet G., Balling P., Sudo M., Zeilinger G., Schmitt A., Mattei M. & Strecker M.: Tectono-sedimentary evolution of the northern Iranian Plateau: insights from middle-late Miocene foreland-basin deposits

6-3 09.15 - 09.30

Rapa G., Groppo C., Mosca P. & Rolfo F.: Tectono-metamorphic architecture and evolution of the Greater Himalayan Sequence in the Gosainkund-Helambu region (central Nepal Himalaya): a field-based and petrologic study

6-4 09.30 - 09.45

Iaccarino S., Montomoli C., Carosi R., Montemagni C., Massonne H.-J., Jain A.K. & Visonà D.: Pressure-Temperature-Deformation-Time constraints on the South Tibetan Detachment System along the Alaknanda–Dhaulī Ganga valleys, Garhwal Himalaya (N India)

6-5 09.45 - 10.00

Pellegrino A.G., Zhang B., Yin C., Maniscalco R., Hernandez-Moreno C. & Speranza F.: Paleomagnetism of the Gaoligong strike-slip fault zone (Yunnan, China): understanding block rotation pattern

6-6 10.00 - 10.15

Piccolo A., Faccenda M., Carosi R., Montomoli C. & Visonà D.: Deciphering the geodynamic evolution of Large Hot Orogens; insight from numerical modeling

6-7 10.15 - 10.30

Rossetti F., Asti R., Faccenna C., Gerdes A., Lucci F. & Theye T.: Activation of the ductile shearing along the Gediz detachment, Mendere Massif core complex (western Turkey)

6-8 10.30 - 10.45

Argnani A.: Subduction evolution of the Dinarides and the Cretaceous orogeny in the Eastern Alps: Hints from a new palaeotectonic reconstruction

6-9 10.45 - 11.00

Cavalcante F. & Prosser G.: Geological map of the Liguride Complex of the Pollino area (Southern Apennines)

S 9. Input and output in subduction settings: chemical and geodynamics implications

Conveners and Chairpersons: Riccardo Avanzinelli (Università di Firenze), Valentina Magni (University of Durham), Nadia Malaspina (Università di Milano-Bicocca)

Aula DSU4

9-1 08.30 - 08.45

Piana Agostinetti N. & Faccenna C.: Seismic structure of the Northern Apennines: insights into subduction dynamics

9-2 08.45 - 09.00

Campione M.: Seismic versus aseismic behaviour of thrust faults of antigorite serpentine

9-3 09.00 - 09.30

(KEYNOTE) Tumiati S.: Experimental constraints on the composition of fluids interacting with a graphite-bearing, carbonate-free subduction melange

9-4 09.30 - 09.45

Zanchetta S., Tumiati S., Pellegrino L. & Malaspina N.: Slab-mantle

interaction during UHP and UHT metamorphism of garnet peridotites and their hosting crustal rocks (Monte Duria, Central Alps, N Italy)

9-5 09.45 - 10.15

(KEYNOTE) Conticelli S., Ammannati E., Casalini M., Jacob D.E., Avanzinelli R. & Foley S.F.: The role of carbon from recycled sediments in the potassic magmatism of the Central Mediterranean region: evidence for carbonate metasomatism in the mantle

9-6 10.15 - 10.30

Iovine R.S., Mazzeo F.C., Arienzo I., D'Antonio M., Wörner G., Civetta L., Pastore Z. & Orsi G.: Sr-O-isotopic data on hybrid volcanic rocks of Arso, the last eruption occurred at Ischia island (Italy; 1302 AD)

9-7 10.30 - 10.45

Wörner G., Iovine R.S., Mazzeo F.C., D'Antonio M., Arienzo I., Civetta L. & Orsi G.: Sr-O isotope systematics in the Campi Flegrei magma systems

9-8 10.45 - 11.00

Pinarelli L., Vaselli O., Capaccioni B., Gioncada A. & Downes H.: The Spiaggia Lunga mafic enclaves (Vulcano, Aeolian Islands): testimony of an older reservoir

S 11. Topography: from the surface to the mantle

Conveners and Chairpersons: Claudio Faccenna (Università di Roma Tre), Carmelo Monaco (Università di Catania), Alessandra Ascione (Università di Napoli Federico II), Maria Laura Balestrieri (CNR-IGG Pisa), Claudia Piromallo (INGV-Roma1)

Aula Coviello (A29)

11-1 08.30 - 09.00

(KEYNOTE) Pazzaglia F.J., Meltzer A.S., Soto-Codero L., Carnes L., Holt W.E. & Ghosh A.: Topography: from the surface to the mantle in eastern North America (ENAM), a seismically active and deforming plate interior

11-2 09.00 - 09.15

Olivetti V., Godard V., Bellier O., Gautheron C. & Faccenna C.: Cenozoic rejuvenation events of massif central topography (France): insights from cosmogenic denudation rates, river profiles and low-t thermochronology

11-3 09.15 - 09.30

Sembroni A., Faccenna C., Becker T.W., Molin P. & Abebe B.: Long-term, deep-mantle support of the Ethiopia-Yemen Plateau

11-4 09.30 - 09.45

Fierro E. & Schettino A.: Mantle dynamics in the Red Sea region

11-5 09.45 - 10.00

Teixell A., Arboleya M.L., Domenech M. & Teson E.: Tectonics and topography of the Moroccan Atlas I: 250 My history of subsidence of uplift in the NW African plate

11-6 10.00 - 10.15

Teixell A., Ayarza A., Carbonell R., Babault J. & Arboleya M.L.: Tectonics and topography of the Moroccan Atlas II: crust and mantle structure and the support of high mountain elevation

11-7 10.15 - 10.30

Siravo G., Faccenna C., Molin P., Fellin M.G., Giachetta E., Bayona G. & Jimenez Diaz G.: Preliminary results on the uplift of the Eastern Cordillera, Colombia

11-8 10.30 - 10.45

Radeff G., Cosentino D., Öğretmen N., Cipollari P., Frezza V., Faranda C. & Gliozzi E.: The multi-phased uplift of the Central Anatolian plateau southern margin: evidence from stratigraphy and implications for the geodynamic model

11-9 10.45 - 11.00

Ballato P., Schildgen T., Parra M., Dunkl I., Yildirim C., Sobel E., Echtler E. & Strecker M.: Spatial patterns in exhumation and surface uplift in the central Pontide mountains during the growth of the northern margin of the Central Anatolian Plateau

S 12. Quaternary study: integrated approaches, constraints and open questions

Conveners and Chairpersons: Nicoletta Santangelo (Università di Napoli Federico II), Marcello Tropeano (Università di Bari Aldo Moro), Maria Marino (Università di Bari Aldo Moro), Mariarita Palombo (Università di Roma La Sapienza), Vincenzo Pascucci (Università di Sassari)

Aula A28

12-1 08.30 - 09.00

(KEYNOTE) Antonioli F., Furlani S. & Mastronuzzi G.: "We saw things in the sea that you people could not even imagine ..."

12-2 09.00 - 09.15

Ferranti L., Antonioli F. & Monaco C.: The timing and spatial pattern of Late Pleistocene-Holocene shorelines uplift in the Calabrian Arc: clues for understanding regional and local tectonic processes

12-3 09.15 - 09.30

Zecchin M. & Caffau M.: The late Quaternary uplift of the Crotone Basin, southern Italy

12-4 09.30 - 09.45

Ascione A. & Valente E.: Geomorphological investigation of active tectonics: case studies from the southern Apennines

12-5 09.45 - 10.00

Öğretmen N., Cipollari P., Frezza V., Faranda C., Gliozzi E., Yildirim C., Radeff G. & Cosentino D.: Biostratigraphical constraints of the youngest marine deposits at the southern margin of the Central Anatolian Plateau (CAP, Turkey): A key to evaluate the long-term uplift rate of the CAP southern margin

12-6 10.00 - 10.15

Mirabella F., Bucci F., Cardinali M., Santangelo M., Barchi M.R. & Guzzetti F.: Alluvial fan shift reveals Quaternary migration of active extension. A case study in the Northern Apennines of Italy

12-7 10.15 - 10.30

Bernardinetti S., Pieruccioni D., Petrolo F., Tufarolo E., Colonna T., Trotta M., Minucci S., Villa V., Aureli D., Pagli M. & Nicoud E.: Subsurface 3D modeling of Giumentina Valley (Majella, Abruzzo, Italy) trough multi-methodic geophysical surveys

12-8 10.30 - 10.45

Chicco J., Invernizzi C., Pierantoni P.P. & Costa M.: Quaternary tectonics from seismic interpretation and its relation with deepest geothermal fluids in the Marche region (Central Italy)

12-9 10.45 - 11.00

Scarciglia F., Mercatante G., Donato P., Ghinassi M., Carnevale G., Delfino M., Oms O., Papini M., Pavia M., Sani F. & Rook L.: A multidisciplinary study of the Homo-bearing Aalat pedostratigraphic succession, Dandiero Basin, East Africa: insights into Pleistocene soil development and paleoenvironmental changes

S 14. Climate and environments from past and present interglacials: natural variability and human-induced landscape changes

Conveners and Chairpersons: Assunta Florenzano (Università di Modena e Reggio Emilia), Anna Maria Mercuri (Università di Modena e Reggio Emilia), Eleonora Regattieri (CNR-IGAG Roma), Barbara Stenni (Università di Venezia Ca Foscari), Andrea Zerboni (Università di Milano)

Aula A33

14-1 08.30 - 09.00

(KEYNOTE) Drysdale R.N., Zanchetta G., Regattieri E., Bajo P., Hellstrom J., Couchoud I., Gierz P. & Woodhead J.: Insights on past interglacials from Corchia Cave (Italy) speleothems

14-2 09.00 - 09.15

(KEYNOTE) Bini M.: Human-Environment Relationship and Landscape Evolution since Etruscan Times: Case Studies from Apuo-Versilia Plain and Pisa Urban Area (NW Italy)

14-3 09.15 - 09.30

D'Agostino R., Adam O., Lionello P. & Schneider T.: A long term perspective on the Hadley Cell evolution: from the last glacial maximum to climate change projections

14-4 09.30 - 09.45

Regattieri E., Zanchetta G., Giaccio B., Nomáde S., Galli P., Peronace E., Drysdale R.N., Hellstrom J.C., Isola I., Boschi C., Wagner B. & Francke A.: Last Interglacial climatic and environmental variability from continental carbonates (speleothems and lacustrine sediment): a coherent framework from central Italy sites

14-6 09.45 - 10.00

Sinopoli G., Sadori L. & Masi A.: Lake Ohrid (FYROM/Albania): palynology of the last interglacial

14-7 10.00 - 10.15

Cremaschi M., Davoli P., Mostafa A.A., Zanchetta G., Baneschi I. & Zerboni A.: Climate and humans at Soknopaiou Nesos (Northern Faiyum, Egypt) during the Holocene

14-8 10.15 - 10.30

Zerboni A. & Biagetti S.: Was the termination of the Holocene African Humid Period abrupt or gradual? Comparison of offshore and continental records and archaeological implications

14-9 10.30 - 10.45

Di Vito M.A., de Vita S., Rucco I., Bini M., Zanchetta G., Boenzi G., Castaldo N., Cesarano M., Ebanista C. & Stanco E.: Volcaniclastic debris flows related to 472 AD eruption at Vesuvius: social and environmental impact from stratigraphic and geoarchaeological data

14-10 10.45 - 11.00

Mercuri A.M.: Palynology from off-sites and on-site contexts as a tool for the assessment of long-term human impact

S 19. Basin analysis: qualitative and quantitative approaches from paleoenvironmental reconstructions to burial history

Conveners and Chairpersons: Fabrizio Berra (Università di Milano), Eugenio Carminati (Università di Roma La Sapienza), Simonetta Cirilli (Università di Perugia), Eduardo Garzanti (Università di Milano-Bicocca), Salvatore Giammetti (ENI), Sergio Longhitano (Università della Basilicata), Massimiliano Zattin (Università di Padova)

Aula A35

19-1 08.30 - 08.45

(KEYNOTE) Grigo D.: Quantitative Geology and Basin Analysis in the last 30 years

19-2 08.45 - 09.00

Corrado S., Schito A., Aldega L. & Grigo D.: A quantitative multi-method approach to assess thermal evolution of the Lower Congo Basin (Angola)

19-3 09.00 - 09.15

Carminati E., Aldega L., Bigi S., Trippetta F. & Corrado S.: Thermal constraints to the tectonic evolution of the SW Zagros (Fars province) along a 250 km transect from internal to external zones

19-4 09.15 - 09.30

Basilone L., Frixia A., Trincianti E. & Valenti V.: Multidisciplinary approach for outcropping and subsurface Permian-Cenozoic deep-water carbonates (Central Sicily): outcome for paleogeography of the Southern Tethyan continental margin

19-5 09.30 - 09.45

Cipriani A., Citton P., Fabbi S. & Romano M.: Evidence for Early Cretaceous syn-sedimentary tectonics in the Umbria-Marche Basin (Northern Apennines, Italy)

19-6 09.45 - 10.00

D'Ambrogi C., Maesano F.E. & Ferri F.: Geological 3D modelling and quantitative Basin Analysis. Workflow, methods and results in the central Po Basin

19-7 10.00 - 10.15

Amadori C., Garcia-Castellanos D., Fantoni R., Di Giulio A. & Toscani G.: Unraveling the coast line in the Po Plain-Northern Adriatic region during the late Messinian sea level drop

19-8 10.15 - 10.30

Mancini M., Moscatelli M., Stigliano F., Cavinato G.P., Marini M., Milli S., Simionato M., Cosentino G. & Polpetta F.: Middle Pleistocene fluvial incised valleys from the subsoil of the centre of Rome: facies, stacking pattern and controls on sedimentation

19-9 10.30 - 10.45

Mueller P., Di Giulio A. & Patacci M.: Determining reservoir heterogeneities in turbidite fans by integrated sedimentological and

stochastic analyses – a comprehensive study of the Bordighera deep-sea-fan

19-10 10.45 - 11.00

Di Achille G.: Martian fluvio-lacustrine deposits: 2D and 3D sedimentary modeling and implications for the climate and the astrobiological potential of the planet

S 25. Geological safety of built and urban areas

Conveners and Chairpersons: Francesco Maria Guadagno (Università del Sannio), Carlo Esposito (Università di Roma La Sapienza), Claudia Meisina (Università di Pavia), Concettina Nunziata (Università di Napoli Federico II), Gabriele Scarascia Mugnozza (Università di Roma La Sapienza), Vincenzo Simeone (Politecnico di Bari)

Aula DSU3

25-1 08.30 - 09.00

(KEYNOTE) Leroi E.: Integrated platform of risk analysis

25-2 09.00 - 09.15

Costanzo M.R. & Nunziata C.: Ground motion modeling for the April 6, 2009 ($M_W=6.3$) earthquake at L'Aquila district

25-3 09.15 - 09.30

Tallini M., Durante F., Macerola L. & Nocentini M.: Does a seismic double-resonance affect L'Aquila historical downtown buildings?

25-4 09.30 - 09.45

Durante F., Pipponzi G., Amoroso S., Cantore L., Cosentino D., Di Domenica A., Di Giulio G., Di Naccio D., Macerola L., Milana G., Nocentini M., Pizzi A., Tallini M., Vassallo M.: Seismic microzonation of Castelnuovo (L'Aquila): investigations to refine the subsoil model for the amplification effect evaluation

25-5 09.45 - 10.00

Macerola L., Tallini M., Durante F., Di Giulio G. & Milana G.: 1D and 2D simulations compared to experimental data to evaluate the topographic seismic site effect (Monteluco relief, L'Aquila)

25-6 10.00 - 10.15

Nunziata C. & Costanzo M.R.: Seismic microzoning of the historical centre of Napoli

25-7 10.15 - 10.30

Varone C., Bozzano F., Lenti L., Martino S. & Scarascia Mugnozza G.: Modelling of earthquake induced deformations in alluvial deposits at Rome (Italy)

25-8 10.30 - 10.45

Grelle G., Bonito L., Sica S., Revellino P., Guerriero L., Sappa G., Pecce M.R. & Guadagno F.M.: Seismic Response by GIS modelling in an urban area: prediction, accuracy and design utility

25-9 10.45 - 11.00

Boncio P., Amoroso S., Vessia G., Francescone M., Nardone M., Monaco P., Famiani D., Di Naccio D., Liberi F., Mercuri A., Manuel M.R., Milana G. & Galadini F.: Liquefaction potential in fine-grained sedimentation environment: Fucino lacustrine basin, central Italy

S 35. Three centuries of Geology in Italy

Conveners and Chairpersons: Marco Pantaloni (ISPRA Roma), Alessio Argentieri (Città Metropolitana di Roma Capitale), Gianbattista Vai (Museo Capellini Bologna), Ezio Vaccari (Università dell'Insubria), Marco Romano (Museum für Naturkunde, Leibniz-Institut für Evolutions und Biodiversitätsforschung Berlin)

Aula A36

35-1 08.30 - 08.45

Vai G.B.: Raimondo Selli's (1916–1983) scientific works

35-2 08.45 - 09.00

Pizzorusso A.C.: Leonardo da Vinci: Cartographer

35-3 09.00 - 09.15

Luzzini F.: The Edition Open Sources Project. Towards a critical edition of Antonio Vallisneri's manuscript *Primi Itineris Specimen* (1661-1730)

35-4 09.15 - 09.30

Sammuri P. & Pantaloni M.: Tuscany: mineral resources mapping in the 18th century

35-5 09.30 - 09.45

Candela A.: Exploring mountains: The geological travel of Paolo Sangiorgio in Valsassina (1770)

35-6 09.45 - 10.00

Abate T. & Branca S.: Illustrating and mapping Etna's eruptions: from the iconographies of XVIII century to the modern geological cartography

35-7 10.00 - 10.15

Visconti A.: Geological landscapes and manufacturing in Lombardy between the 18th and 19 centuries: an increasingly close-knit interconnection

35-24 10.15 - 10.30

Console F., Fabbi S. & Pantaloni M.: Geological mapping in Calabria in XIX century

35-9 10.30 - 10.45

Cubellis E., Luongo G. & Obrizzo F.: Cultural climate in Naples between the birth and development of volcanology

35-10 10.45 - 11.00

Pantaloni M., Console F. & Petti F.M.: 1867: Early geological knowledge from the Italian provinces

S 36. Geoethics: a new way of thinking and practicing geosciences

Conveners and Chairpersons: Stefano Tinti (Università di Bologna), Francesco De Pascale (Università della Calabria), Sabina Di Franco (CNR-IIA Roma), Alessandra Magagna (Università di Torino), Silvia Peppoloni (INGV-Roma1)

Aula A32

36-1 08.30 - 08.45

Dattilo V. & De Pascale F.: The semiosis of the Anthropocene: the triangle "geology/geography – planet illness – society"

36-2 08.45 - 09.00

Giardino M., Lucchesi S., Dellarole E., Bagnati T. & Magagna A.: Ethics of Geodiversity, geoEthics for Diversity: added values for Unesco Geoparks

36-3 09.00 - 09.15

Tinti S.: Geoethics: is it a new science or a new focus in geosciences?

36-4 09.15 - 09.30

Giardino M. & Lucchesi S.: A new paper on Geoethics: THE "Laudato Sii" ENCYCLICAL LETTER by Pope Francis ON THE CARE OF our COMMON HOME, Planet Earth

36-5 09.30 - 09.45

Liserre B.: The importance of environmental education in Niccolò Machiavelli's thought in the context of the Italian Renaissance: a geoethical model

36-6 09.45 - 10.00

De Pascale F., Dattilo V., Muto F., Bernardo M. & D'Amico S.: Teaching resilience and educating to seismic risk reduction at school: a geoethical path in Aiello Calabro, southern Italy

36-7 10.00 - 10.15

Ryazi Khyabani F. & Pieruccioni D.: Will a geologist choose the environmental ethics or the economy?

36-8 10.15 - 10.30

Kalenge Nguvulu C. & Lupia Palmieri A.: The natural capital challenges in the Democratic Republic of Congo: a geoethical emergency

36-9 10.30 - 10.45

Somma R.: Forensic soil analyses in a simulated murder case

36-10 10.45 - 11.00

Tinti S. & Armigliato A.: Are there geoethical aspects involved in geohazard assessment? The case of tsunami hazard quantification and mapping

S 39. The future vision of engineering geology: advances and perspectives for tomorrow's environment

Conveners and Chairpersons: Francesco Russo (Ordine dei Geologi della Campania), Silvia Fabbrocino (Università di Napoli Federico II), Francesco Marchese (Italferr)

Aula DSU5

39-1 08.30 - 09.00

(KEYNOTE) Wasowski J.: Innovative remote sensing technologies and new opportunities for the engineering geology research and practice

39-2 09.00 - 09.15

Acone A., Croce P., Modoni G., Palma B. & Ruocco A.: Investigations and Analyses of the Natural Arch of Palinuro

39-3 09.15 - 09.30

Chiara P.: Engineering applied geophysics: a 2D and 3D widespread and versatile tool to support risk analysis, planning and construction of strategic railways and civil works

39-4 09.30 - 09.45

Costanzo M.R. & Nunziata C.: Vs models in urban areas from ambient noise cross-correlation

39-5 09.45 - 10.00

Fabbrocino S., Todisco F. & Fabbrocino G.: Lessons learned from interdisciplinary efforts towards integrated and reliable procedures for site characterization in seismic areas

39-6 10.00 - 10.15

Belardi G., Vignaroli G., Rossetti F., Ballirano P., Billi A. & Urru G.:

Mitigation of asbestos hazard in natural environments involved by engineering operations

39-7 10.15 - 10.30

Benedetti G., Braga R., Carlomagno F., Gasparotto G., Paolucci F. & Scuri A.: Asbestiform minerals and their impact on underground works. A case study of National Railway Project in the Sultanate of Oman

39-8 10.30 - 10.45

De Guidi G., Petralia F., Scudero S. & Vecchio A.: Remediation and safe making of the quarry area "Monte Calvario", Mt. Etna

39-9 10.45 - 11.00

Di Natale M., Di Ronza S., Eramo C., Vigliotti M. & Ruberti D.: Defence work assessment to prevent beach erosion and river mouth diversion along the Domita Coast (southern Italy) - Experimental survey

POMERIGGIO/AFTERNOON

(15.30-18.00)

S 3. Multi-methodological approaches in the characterization of fractures and fault zones

Conveners and Chairpersons: Giovanni Florio (Università di Napoli Federico II), Alfredo Mazzotti (Università di Pisa), Adele Manzella (CNR-IGG Pisa), Davide Scrocca (CNR-IGAG Roma), Agata Siniscalchi (Università di Bari Aldo Moro), Luisa Valoroso (INGV-Roma1)

Aula DSU4

3-1 15.30 - 15-45

(KEYNOTE) Chiaraluca L. & TABOO working group: A multidisciplinary research infrastructure watching the chemo-physical processes governing active faults and the genesis of earthquakes: the Altotiberina Near Fault Observatory (TABOO) case study

3-2 15.45 - 16.00

Latorre D., Mirabella F., Chiaraluca L., Trippetta F. & Lomax A.: A deterministic velocity model to correlate earthquake locations and geological structures: a case study of the Altotiberina fault system

3-3 16.00 - 16.15

Lo Re D. & Florio G.: Inversion of gravity data across faults: some strategies to obtain density models displaying sharp variations

3-4 16.15 - 16.30

(KEYNOTE) Bonatti E., Ligi M. & Palmiotto C.: Oceanic Megatransforms: A New Type of Plate Boundary

3-5 16.30 - 16.45

Maggi M., Cianfarra P. & Salvini F.: Tectonic Carving in fault zones: its contribution to glaciotectionic erosional processes

3-6 16.45 - 17.00

Iacopini D., Butler R.W.H., Purves S. & McArdle N.: Mapping the seismic expression of fault and their surrounding deformation zones in 3D seismic volumes

3-7 17.00 - 17.15

(KEYNOTE) Vanorio T.: The Rock Physics of Hard Rocks: From Reactive Fluids in Volcanic Regions to High-Performance Concrete-Like Rocks

3-8 17.15 - 17.30

Aleardi M.: Using well log data and statistical Gaussian simulations to

estimate the crack density value within a geothermal reservoir located in fractured hard rocks

3-9 17.30 - 17.45

Arosio D., Zanzi L., Longoni L. & Papini M.: GPR response to fractures with different filling materials

3-10 17.45 - 18.00

Casini L., Cuccuru S., Longo V., Testone V. & Oggiano G.: High-resolution geometry of Castellaccio Pluton by Electrical Resistivity Tomography (ERT)

S 6. Geodynamics and Paleogeography of Tethyan belts: from convergence to exhumation – session dedicated to the memory of Marco Beltrando

Conveners and Chairpersons: Rodolfo Carosi (Università di Torino), Marco G. Malusà (Università di Milano-Bicocca), Massimo Mattei (Università di Roma Tre), Andrea Zanchi (Università di Milano-Bicocca)

Aula Amirante (A27)

6-10 15.30 - 16.00

(KEYNOTE) Molli G.: A revision on the Alps-Apennines relationships: structural signatures and geologic records of interfering orogens

6-11 16.00 - 16.15

Butler R.W.H.: Tracking sand fairways to develop tectonic restorations in the Western Alps and central Mediterranean

6-33 16.15 - 16.30

Malusà M.G., Danišik M. & Kuhlemann J.: Ancient or young Apennines? Insights from low-temperature thermochronology in Corsica-Sardinia

6-13 16.30 - 16.45

Speranza F., Hernandez-Moreno C., Avellone G., Gasparo Morticelli M., Agate M., Sulli A. & Di Stefano E.: Understanding paleomagnetic rotations in Sicily: Thrust vs. transpressive structures

6-14 16.45 - 17.00

Vitale S., Amore F.O., Ciarcia S., Fedele L., Grifa C., Prinzi E.P., Tavani S. & Tramparulo F.d'A.: The Cretaceous-Paleogene Abortive Rift in the southern Adria domain (southern Apennines, Italy)

6-15 17.00 - 17.15

Dal Piaz G.V., Bergomi M.A., Malusà M.G., Monopoli B. & Tunesi A.: U/Pb zircon dating and pre-Alpine evolution of the Grand St Bernard nappe system in the Aosta valley, Italian Western Alps

6-16 17.15 - 17.30

Decarlis A., Manatschal G., Ferrando S. & Carosi R.: Piedmont-Ligurian rifted margins geometry: preservation of a rift-polarity flip inside the Alpine belt

6-17 17.30 - 17.45

Groppo C., Ferrando S., Castelli D., Elia D., Meirano V. & Facchinetti L.: A possible new UHP unit in the Western Alps as revealed by ancient Roman quern-stones from Costigliole Saluzzo, Italy

6-18 17.45 - 18.00

Carosi R., D'Addario E., Mammoliti E., Montomoli C. & Simonetti M.: Vorticity of the flow and strain analysis in the Argentera Massif (External Crystalline Massifs, Western Alps): recognition of a regional pure-shear dominated transpression

S 11. Topography: from the surface to the mantle

Conveners and Chairpersons: Claudio Faccenna (Università di Roma Tre), Carmelo Monaco (Università di Catania), Alessandra Ascione (Università di Napoli Federico II), Maria Laura Balestrieri (CNR-IGG Pisa), Claudia Pìromallo (INGV-Roma1)

Aula Coviello (A29)

11-10 15.30 - 16.00

(KEYNOTE) Roberts G.P., Cowie P.A., Scholz C.H., Faure Walker J.P. & Steer P.: Viscous roots of active seismogenic faults revealed by geologic slip rate variations, central Italy

11-11 16.00 - 16.15

Piana Agostinetti N.: Slab segmentation vs. Apennines segmentation: insights from Receiver Function analysis.

11-12 16.15 - 16.30

Barreca G., Scarfi L., Cannavò F., Koulakov I. & Monaco C.: New structural and seismological evidence and interpretation of a lithospheric scale shear zone at the southern edge of the Ionian subduction system (central-eastern Sicily, Italy)

11-13 16.30 - 16.45

Cultrera F., Barreca G., Ferranti L., Monaco C., Pepe F., Scarfi L., Passaro S., Mattia M., Bruno V., Barberi G. & Musumeci C.: Structural architecture and active deformation pattern in the northern sector of the Aeolian-Tindari-Letojanni fault system (Southern Tyrrhenian Sea - NE Sicily) based on merging of marine and on-land data

11-14 16.45 - 17.00

Serpelloni E., Salimbeni S. & Pondrelli S.: Surface and deep deformation of the great Alpine region from GPS and seismic anisotropy measurements

11-15 17.00 - 17.15

Malusà M.G., Balestrieri M.L. & Wittmann H.: Lithologic control on exhumation and topographic growth: insights from detrital thermochronology and cosmogenic analyses in the Northern Apennines and the Western Alps

11-16 17.15 - 17.30

Fellin M.G., Willett S.D., Chen C.-Y., Christl M. & Chen Y.-G.: Erosion rates across space and time from a multi-proxy study of rivers of eastern Taiwan

11-17 17.30 - 17.45

Pavano F., Pazzaglia F.J. & Catalano S.: Knickpoints as geologic markers of rock uplift and long-term erosion

11-18 17.45 - 18.00

Giachetta E., Capolongo D. & Giannandrea P.: Drainage network evolution and landscape response to active tectonics in the Bradanic trough, Southern Italy

S 12. Quaternary study: integrated approaches, constraints and open questions

Conveners and Chairpersons: Nicoletta Santangelo (Università di Napoli Federico II), Marcello Tropeano (Università di Bari Aldo Moro), Maria Marino (Università di Bari Aldo Moro), Mariarita Palombo (Università di Roma La Sapienza), Vincenzo Pascucci (Università di Sassari)

Aula A28

12-10 15.30 - 16.00

(KEYNOTE) Trincardi F.: Process observation, strata formation and Quaternary "seascape" evolution in coastal to deep-water environments

12-11 16.00 - 16.15

Bertini A., Vannacci M., Buratti N., Marchegiano M., Gliozzi E., Ariztegui D. & Mazza R.: Lake Trasimeno's Quaternary vegetation and climate history from palynological studies

12-12 16.15 - 16.30

Maiorano P., Bertini A., Capolongo D., Eramo G., Gallicchio S., Girone A., Pinto D., Toti F., Ventruti G. & Marino M.: Climate variability through the

Marine Isotope Stage 19 in the Bradano Trough (Southern Italy): a multi-proxy record

12-13 16.30 - 16.45

De Falco G., Conforti A., Pascucci V., Sanna I. & Del Vais C.: Late Holocene evolution of a deltaic-lagoon system related to history of the Othoca Phoenician-Punic center (Gulf of Oristano, western Sardinia)

12-14 16.45 - 17.00

Bernasconi M.P., Cefalà M. & Perri E.: Quaternary climate variations as defined by a coralgial bioconstruction and associated microbialites (Tyrrhenian coast of Calabria, Southern Italy)

12-15 17.00 - 17.15

Cardines C., Di Donato V., Insinga D.D., Iorio M., Molisso F., Rumolo P., Passaro S. & Vallefucio M.: The TEA C6 record: a reference archive from the Gulf of Taranto (Ionian Sea) for the last 15 ka

12-16 17.15 - 17.30

Columbu A., Drysdale R.N., Woodhead J., De Waele J., Chiarini V., Hellstrom J., Sanna L. & Forti P.: Carbonate speleothems from gypsum caves for palaeoclimatic and palaeoenvironmental reconstructions

12-17 17.30 - 17.45

Marra F., Ceruleo P., Pandolfi L., Petronio C., Rolfo M.F. & Salari L.: The aggradational successions of the Aniene River Valley in Rome: evidence for the oldest Neanderthal presence in Europe

12-18 17.45 - 18.00

Mazzini I., Sardella R., Cavinato G.P., Parotto M., Bellucci L., Brilli M., Giustini F., Fioramonti V., Cifelli F., Mattei M., Biddittu I. & Sirna M.: New constraints on the Plio-Quaternary deposits of the Collepardo area (Ernici Range, Central Apennine, Italy)

S 15. Polar region on a changing planet: learning from the past, exploring the future

Conveners and Chairpersons: Giorgio Budillon (Università di Napoli Parthenope), Caterina Morigi (Università di Pisa) Maria Cristina Salvatore (Università di Pisa), Renata Giulia Lucchi (OGS Trieste), Manuel Bensi (OGS Trieste), Florence Colleoni (CMCC Bologna)

Aula A33

15-1 15.30 - 16.00

(KEYNOTE) Baroni C.: Cenozoic glacial variation and landscape evolution in Antarctica: new insights from the continental record

15-2 16.00 - 16.15

Caricchi C., Sagnotti L., Macri P., Lucchi R.G. & the scientific party of the project and cruise CORIBAR: Reconstruction of geomagnetic paleosecular variation for the last 16k years, from the Kveithola trough mouth fans, on the continental margin of northwestern Barents Sea

15-3 16.15 - 16.30

Rui L., Rebesco M., Caburlotto A., Casamor J.L., Lucchi R., Camerlenghi A., Urgeles R., Andreassen K., Hanebuth T., Ozmaral A. & Accettella D.: Downslope and alongslope sedimentary processes on a high latitude continental margin: NW Barents Sea

15-4 16.30 - 17.00

(KEYNOTE) Langone L.: Long time-series of downward particle fluxes over Arctic and Antarctic continental margins

15-5 17.00 - 17.15

Bergamasco A., Colizza E., DeSantis L., Accaino F., Black J., Boehm G., Cotterle D., Geletti R., Kim S.K., Landucci C., McKay R., Mezgec K., Olivo E., Petronio L., Torricella F., Iaiza A., Valle M. & Wardell N.: Sediment, current and bottom morphology: the right partnership to understand present and past environment dynamics. The central-western Ross sea case

15-6 17.15 - 17.30

Rivaro P.F.: Variability in chemical properties and in ventilation of the Ross Sea (Antarctica) waters and links to climate change.

15-7 17.30 - 17.45

Colleoni F.: Ice sheet evolutions: investigating the past to predict the future

15-8 17.45 - 18.00

Pierini S., de Ruggiero P. & Sgubin G.: Southern Ocean modelling and implications related to climate change

S 20. Evolution of continental margins and associated basins: insights into stratigraphy, tectonics and volcanism

Conveners and Chairpersons: Marco Bonini (CNR-IGG Firenze), Emanuele Lodolo (OGS Trieste), Alfonsa Milia (CNR-IAMC Napoli), Marco Sacchi (CNR-IAMC Napoli), Vera Valenti (Università di Palermo)

Aula A35

20-1 15.30 - 16.00

(KEYNOTE) Manatschal G., Tugend J., Gillard M., Decarlis A., Hauptert I., Chenin P., Nirrengarten M., Epin M.E. & Lescoutres R.: Up- and down-

scaling field and seismic observations to test models of rifted margins formation

20-2 16.00 – 16.30

(KEYNOTE) Ligi M. & Bonatti E.: Nature of crust in the northern Red Sea

20-3 16.30 - 16.45

Schettino A., Macchiavelli C., Pierantoni P.P., Zanoni D. & Rasul N.: Plate motions around the Red Sea since the Early Oligocene

20-4 16.45 - 17.00

Sani F., Ghinassi M., Papini M. & Oms O.: The evolution of the Buia basin (Eritrea): inferences on the northern tip of Afar triangle

20-5 17.00 - 17.15

Molin P. & Corti G.: Topography, river network and recent fault activity at the margins of the Central Main Ethiopian Rift (East Africa)

20-6 17.15 - 17.30

Olivetti V., Rossetti F., Balestrieri M.L., Pace D., Talarico F., Cornamusini G., Agostini S. & Smellie J.: Contrasting exhumation and deformation style along a rift shoulder: insights from the Transantarctic Mountains

20-7 17.30 - 17.45

Tavani S., Bertok C., Corradetti A., Granado P. & Vigna B.: A Pyrenean mid-Cretaceous extensional fault system in the Briançonnais Domain of the Alps: implications for the eastern termination of the segmented Bay of Biscay-Pyrenean rift system

20-8 17.45 - 18.00

Milia A., Torrente M.M. & Iannace P.: Interaction between volcanism and extensional faulting in the Campania continental margin

S 25. Geological safety of built and urban areas

Conveners and Chairpersons: Francesco Maria Guadagno (Università del Sannio), Carlo Esposito (Università di Roma La Sapienza), Claudia Meisina (Università di Pavia), Concettina Nunziata (Università di Napoli Federico II), Gabriele Scarascia Mugnozza (Università di Roma La Sapienza), Vincenzo Simeone (Politecnico di Bari)

Aula DSU3

25-10 15.30 - 16.00

(KEYNOTE) Nadim F.: Modern Challenges Faced by Engineers in Risk Assessment and Management

25-11 16.00 - 16.15

Guerricchio A., Doglioni A. & Simeone V.: Natural hazard affecting the ancient town of Mileto (Southern Italy)

25-12 16.15 - 16.30

Cuculo F., Di Ludovico A., di Niro A., Di Nucci L., Izzo M.P.: The evaluation of the security of the built area behind the *Embankment* structures in the final part of the Biferno river (Molise Region)

25-13 16.30 - 16.45

Mascellaro N., Guerriero L., Revellino P., Grelle G. & Guadagno F.M.: Floods, landslides and soil erosion from extraordinary meteorological events in the Benevento Province, southern Italy

25-14 16.45 - 17.00

Fiorillo F. & Meo M.: Landslides and flash floods induced by the 22 November 2011 storm, north-eastern Sicily

25-15 17.00 - 17.15

Schilirò L., Esposito C. & Scarascia Mugnozza G.: Susceptibility analysis of rainfall-induced shallow landslides in the city of Rome (Italy) through a physically-based approach

25-16 17.15 - 17.30

Acito S., Berardi C., Doglioni A., Festa V., Gandi G. & Simeone V.: Stability problems and consolidation works in the ancient town of Matera

25-17 17.30 - 17.45

Castelli F., Cornacchia C. & Lapenna V.: CLOUD platform and smart underground imaging for natural Risk Assessment in urban areas: the Clara project.

25-18 17.45 - 18.00

Tufarolo E., Pieruccioni D., Bernardinetti S., Colonna T., Guastaldi E., Cinà A., Petrolo F., Trotta M. & Minucci S.: Remote sensing and geophysics for a multidisciplinary approach to the stratigraphic reconstruction to support the preliminary project of a new settlement (the case study of Kintélé – Republic of Congo)

S 32. Archaeogeophysics: requirement or choice?

Conveners and Chairpersons: Patrizia Capizzi (Università di Palermo), Valeria Paoletti (Università di Napoli Federico II), Michele Pipan (Università di Trieste), Salvatore Piro (CNR-ITABC Roma), Luigi Sambuelli (Politecnico di Torino)

Aula A32

32-1 15.30 - 16.00

(KEYNOTE) Dabas M.: Decrease of hazards within development projects by a multi-criteria approach; from archeology to modern pollution

32-2 16.00 - 16.15

Capizzi P., D'Alessandro A., Martorana R. & Pirrera C.: The use of non-invasive investigation techniques for the characterization of historical columns

32-3 16.15 - 16.30

Paoletti V., Cicchella M.G., Fedi M., Florio G., La Manna M. & Pappalardo U.: Integrated Geophysical Investigation of a Buried Roman Villa in Pompeii

32-4 16.30 - 16.45

Moscatelli M., Piro S., Piscitelli S., Stigliano F., Mancini M., Gaudiosi I., Giallini S., Peronace E., Zamuner D., Verrecchia D., Giocoli A., Perrone A., Rizzo E. & Romano G.: Integrated geological and geophysical methods to investigate the Palatine hill archaeological area (Rome, Italy)

32-5 16.45 - 17.00

Albano M., Bottari C., Capizzi P., D'Alessandro A., D'Anna R., Doumaz F., Martorana R., Moro M., Rossi M., Saroli M. & Speciale S.: The role of earthquakes and landslides in the destruction of Abakainon necropolis (NE Sicily): results from geomorphological and geophysical investigations

32-6 17.00 - 17.15

De Donno G., Cardarelli E., Oliveti I. & Scatigno C.: Three-dimensional electrical and seismic tomography for assessing the state of conservation of a masonry wall

32-7 17.15 - 17.30

Deiana R., Boaga J., Marson C. & Valluzzi M.R.: Contribution of geophysical methods to the characterization of the subsoil at archaeological seismic sites: the case of Hierapolis (Turkey)

32-8 17.30 - 17.45

Schettino A., Perna R., Pierantoni P.P. & Ghezzi A.: Searching for the Antigonea theatre: A magnetic survey in an ancient Epirus city

32-9 17.45 - 18.00

Dipasquale M., Occhipinti R. & Zurla L.: Geophysics applied to archaeology: multi-instrumental surveys for a Byzantine site recovery in Eastern Sicily

S 35. Three centuries of Geology in Italy

Conveners and Chairpersons: Marco Pantaloni (ISPRA Roma), Alessio Argentieri (Città Metropolitana di Roma Capitale), Gianbattista Vai (Museo Capellini Bologna), Ezio Vaccari (Università dell'Insubria), Marco Romano

(Museum für Naturkunde, Leibniz-Institut für Evolutions und Biodiversitätsforschung Berlin)

Aula A36

35-11 15.30 - 15-45

Roghi G. & Preto N.: Old geological maps of the Dolomites stored in the library of the Department of Geoscience, University of Padova

35-12 15.45 - 16.00

Lipparini L. & Gerali F.: Early oil explorations and production in the Maiella-Tocco Casauria oil province across the 19th and 20th Centuries

35-13 16.00 - 16.15

Foresta Martin F.: The 1906 Ustica earthquake, a case of civil protection of the last century

35-14 16.15 - 16.30

Mosca P. & Fioraso G.: The 'Carta Geologica delle Alpi Occidentali' (Geological Map of the Western Alps) of the Regio Ufficio Geologico d'Italia at the 1:400.000 scale

35-15 16.30 - 16.45

Dal Piaz G.V.: The crystalline basement of the Alps with particular reference to the Italian side: an unpublished report for CNRN by Angelo Bianchi and Giambattista Dal Piaz, 1958

35-16 16.45 - 17.00

Battista F., Leoncini C., Riti L., Citton P. & Nicosia U.: Egidio Feruglio, a geologist of the two worlds

35-17 17.00 - 17.15

Manzoni M.: Michele Gortani – scientist, humanist and statesman

35-18 17.15 - 17.30

Argentieri A., Piro M. & Rotella G.: Urban geology in Rome's natural laboratory: Ugo Ventriglia's legacy

35-19 17.30 - 17.45

D'Angelo S. & Fiorentino A.: When the Geological Survey of Italy goes underwater

35-20 17.45 - 18.00

Vaccari E.: The history of geology in Italy: origins, development and future

S 39. The future vision of engineering geology: advances and perspectives for tomorrow's environment

Conveners and Chairpersons: Francesco Russo (Ordine dei Geologi della Campania), Silvia Fabbrocino (Università di Napoli Federico II), Francesco Marchese (Italferr)

Aula DSU5

39-10 15.30 - 15-45

Doronzo G. & Inserra S.: Best practice in bioengineering for sustainable development and territory management

39-11 15.45 - 16.00

Reina A., Di Donato G. & Saccotelli E.: Assessing the degree of risk of the housing stock: the towns of Puglia (southern Italy)

39-12 16.00 - 16.15

Pilla C.: Proceeding land reclamation the site of railway Terralba in Genova

39-13 16.15 - 16.30

Giugliano S. & Paolucci F.: The management of geological risks in the design of railway infrastructures

39-14 16.30 - 16.45

Perello P. & Damiano A.: Reliability of the geological forecasts in tunnelling: a complex issue with large implications for construction processes and environmental impact

39-15 16.45 - 17.00

Benedetti G., Berti M., Moruzzi F., Rodani S., Sapigni M. & Sciascia F.: Characterization of geological and geomechanical uncertainties and risks – The case study of two railway tunnels (Trento, Southern Alps, Italy)

39-16 17.00 - 17.15

Capozucca F.: The Etroubles tunnel (Aosta): an innovative approach to geomechanical characterization of rocky contexts in Alpine geological environment

39-17 17.15 - 17.30

Perotti F., Rossi F., Pinardi F. & Poli R.: Vibration issues: excavation monitoring during construction of the railway underground link Arcisate-Stabio, function of the geological reference model

39-18 17.30 - 17.45

Coli M. & Pinzani A.: Water inflow in tunnelling: knowledge for prevention

39-19 17.45 - 18.00

Skuk S. & Zurlo R.: Brenner Base Tunnel: Construction works - intermediate geological and geotechnical conclusions based on the construction of 50 km of tunnels

SESSIONI POSTER/POSTER SESSIONS

Area Poster

S 3. Multi-methodological approaches in the characterization of fractures and fault zones

3-11 Panel 1

Bruno P.P. & Castiello A.: Results of high-resolution seismic reflection profiling across Paganica-S. Demetrio Fault, in the epicentral area of the 2009, Mw 6.3 Aquila (Italy) earthquake

3-12 Panel 2

Calderoni G., Rovelli A. & Di Giovambattista R.: Temporal variations in the nucleation zone of the 2009 L'Aquila earthquake through a joint analysis of fault-zone trapped waves and stress release

3-13 Panel 3

de Franco R., Petracchini L., Caielli G. & Scrocca D.: Synthetic seismic reflection modelling of shallow and deep structures of the Larderello geothermal system

3-14 Panel 4

De Guidi G., Currenti G., Grassi S., Imposa S., Malagni S., Palano M., Pepe A., Pepe S., Scudero S. & Vecchio A.: Active tectonics along the Trecastagni-San Gregorio-Acitrezza fault system: southern boundary of Mt Etna unstable sector

3-15 Panel 5

Punzo M., Cavuoto G., Tarallo D., Di Fiore V., Cianflone G., Dominici R., Pelosi N., Iavarone M., Scotto Di Vettimo P., Baculo R., Gallo P., Lirer F., Marsella E. & De Rosa R.: High Resolution seismic method for detection and understanding of suspected active blind faults: the case of Terme Caronte geothermal area (Lamezia Terme-Calabria, Italy)

3-16 Panel 6

Zucchi M., Viti C., Brogi A., Liotta D., Mugnaioli E., Spiess R., Dini A. & Vannuccini G.: Neogene paleoseismicity in the Elba Island exhumed geothermal system (Italy): insights from the Monte Calamita area

3-17 Panel 7

Fondriest M., Mitchell T.M., Di Giulio G., Vassallo M., Balsamo F., Pischiutta M. & Di Toro G.: Multi-scale velocity structure of a seismogenic normal fault zone

3-18 Panel 8

Gandin A., Madonna S. & Rossi F.G.: Travertine deposition and faulting in the geothermal field of Viterbo (Northern Latium/Tuscia, Italy)

3-19 Panel 9

Giallini S., Avalle A., Gaudiosi I., Polpetta F., Razzano R., Simionato M., Sirianni P., Vignaroli G., Di Domenica A., Moscatelli M., Pagliaroli A. & Pizzi A.: Assessing site effects in faulted rock mass by combining geological and geophysical analyses: the case history of Guarcino (Central Italy)

3-20 Panel 10

Luiso P., Paoletti V., Gaudiosi G., Nappi R., Cella F. & Fedi M.: Analysis of the San Giuliano Di Puglia (Southern Italy) active faults: an integrated approach

3-21 Panel 11

Merico A., Cremona M., Ferranti L., Pace B., Colella A., Nazzari M., Cavallo A., Scafa M. & Iezzi G.: The San Benedetto-Gioia dei Marsi (Fucino, central Italy) shear zone

3-22 Panel 12

Pizzi A., Di Domenica A., Pipponzi G., Cosentino D., Durante F., Nocentini M. & Tallini M.: Fault populations growth within the Upper Pliocene-Lower Pleistocene lacustrine deposits of the Aterno Valley graben system (Castelnuovo, L'Aquila)

3-23 Panel 13

Porfido S., Caccavale M., Sacchi M. & Spiga E.: The 1976 Guatemala earthquake: a validation of the ESI scale through re-evaluation of the event based on probabilistic and deterministic hazard analysis

3-24 Panel 14

Riegel H., Rustichelli A., Jablonská D., Tondi E., Agosta F., Di Celma C., Zambrano M., Mattioni L. & Moretti I.: Fault zone characteristics in tight siliciclastic turbidites: an outcrop study on the Macigno Formation, Tuscany, Italy

S 6. Geodynamics and Paleogeography of Tethyan belts: from convergence to exhumation – session dedicated to the memory of Marco Beltrando

6-12 Panel 15

Chiarabba C.: A review of the deep structure of central Mediterranean and inference for the geodynamic evolution

6-19 Panel 16

Arragoni S., Maggi M., Cianfarra P., Pedro Fernández L., Cuesta Fernández L. & Salvini F.: Exotic basement clasts in conglomerates of the Southern Apennines: provenance and implications for the geodynamic evolution of the Central Mediterranean area

6-20 Panel 17

Barruffi A.C., Balestrieri M.L., Montomoli C. & Carosi R.: Post-Variscan exhumation and thermal history of the Variscan Basement in NE Sardinia: insights from apatite fission-track analysis

6-21 Panel 18

Calzolari G., Rossetti F., Della Seta M., Nozaem R., Olivetti V., Balestrieri M.L., Cosentino D., Faccenna C., Stuart F.M., Ault A. & Vignaroli G.: An insight on the spatio-temporal evolution of intraplate strike-slip faulting: the Neogene–Quaternary history of the Kuh-e-Faghan Fault system, central Iran

6-22 Panel 19

Carosi R., Montomoli C., Iaccarino S., Montemagni C., Villa I.M. & Jain A.K.: The Main Central Thrust Zone activity in Garhwal (India, NW Himalaya): insights from geochronological and microthermometric studies

6-23 Panel 20

Carosi R., Iaccarino S. & Montomoli C.: Exhumation of the metamorphic core of the Himalayas: myths and reality

6-24 Panel 21

Chen J., Carosi R., Cao H. & Montomoli C.: The tectonic evolution of the Yalaxiangbo gneiss dome, SE Tibet

6-25 Panel 22

Cipriani M., Curcio A. C., Pacinelli P. & Selli L.: The Belluno Thrust between Monte Coppolo and Monte Agraro (Eastern Southern Alps, Northern Italy)

6-26 Panel 23

Cirrinzione R., Fazio E., Ortolano G., Fiannacca P., Kern H., Mengel K., Pezzino A. & Punturo R.: Syn-shearing temperatures constrained via thermodynamic modelling during the ductile strain-rate evolution in the Symvolon syn-extensional plutonic body (Rhodope core complex, Greece)

6-27 Panel 24

Corrado G., Cavalcante F., Erwan G. & Belviso C.: Detailed characterization of mixed-layer illite/smectite, a useful tool for geodynamic reconstruction. A case study of southern Apennines

6-28 Panel 25

Dal Cin M., Böhm G., Busetti M. & Zgur F.: 3D velocity model from tomographic analysis of seismic reflection data in the Gulf of Trieste (North Adriatic sea)

6-29 Panel 26

Di Rosa M. & Marroni M.: The blueschists-facies metapelites of Corte slices (Corsica, France): microtectonic and geothermobarometric constraints for the Alpine metamorphism

6-30 Panel 27

Forlano S. & Ferranti L.: Pliocene-Quaternary non-coaxial kinematic evolution of the area between M. Raparo and M. Alpi (Lucania Apennines)

6-31 Panel 28

Ghignone S., Gattiglio M., Borghi A. & Balestro G.: New multi-approach constrains for the poliphase evolution of eclogite-blueschist boundary between ophiolitic units in the Susa Valley (Western Alps)

6-32 Panel 29

Malusà M.G., Anfinson O.A., Dafov L.N. & Stockli D.F.: Dating strike-slip motion along the Insubric Fault by detrital zircon U-Pb geochronology

6-34 Panel 30

Marroni M., Meneghini F., Pandolfi L., Hobbs N. & Luvisi E.: A late Eocene-early Oligocene snapshot of Northern Apennines geodynamics at the Alps/Apennines boundary: structure and kinematics of the Ottone-Levanto Line in Eastern Liguria, Italy

6-35 Panel 31

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