

## PROGRAMMA GENERALE

### Giovedì 25 Ottobre:

ore 9.00 registrazione dei convegnisti

ore 10 –10.50 saluto delle autorità e ricordo di Tonino Decandia e Gaetano Giglia

ore 10.50 –11.10 coffee break e **sessione poster**

ore 11:10 **Comunicazioni ad invito** – chairman: E.Tavarnelli

ore 11.10 –11.40 Y.Lagabrielle - *Mantle exhumation revealed by sedimentary records. What we have learned from the Apennines, the Alps and the oceans.*

ore 11.40 – 12.10 J.Malavieille - *Impact of surface processes on the dynamics of orogenic wedges : insights from analogue models and case studies*

ore 12.10 – 12.40 G. Manatschal - *Mantle exhumation at rifted margins: Where are we 35 years after its first discovery by Decandia and Elter?*

ore 12.40-13.40 pranzo

ore 13:40 **Comunicazioni ad invito** – chairman: E.Tavarnelli

ore 13.40 – 14.10 R.W.H. Butler - *How pre-existing crustal structure can influence the tectonic evolution of orogenic belts*

ore 14.10-14.40 W. Alvarez & D.Shimabukuro – *Closing the Tyrrhenian Sea: What were the geological relationships between Sardinia and Calabria during Alpine and Hercynian times?*

ore 14.40 – 15.10 D.C.P. Peacock & M.W. Anderson - *The complete stress history during inversion and the significance of strike-slip deformation*

**Comunicazioni** - chairman: G.Lavecchia

ore 15.10-15.30 A.G.Leslie, M. Krabbendam, G.S. Kimbell & R.A. Strachan - *Localisation of brittle and ductile lateral thrust ramps and culmination walls in the Moine Thrust Zone above reactivated steep basement shear zones: a new view from a classic thrust belt*

ore 15.30-15.50 L. Carmignani, R. Salvini & F. Bonciani - *Did the Nile River flow to the Gulf of Sirt during the late Miocene?*

ore 15.50-16.20 coffee break e **sessione poster**

ore 16:20 **Comunicazioni** – chairman: G.Lavecchia

ore 16.20-16.40 A.Castellarin - *The Giudicarie lineament: a Late Cretaceous to Early Eocene transfer zone rearranged by neogene compressions*

ore 16.40-17.00 R. Polino, P. Mosca, S. Rogledi & M. Rossi- *The Alps-Apennines junction (i): a patchwork of basement units controlling the evolution of sedimentary basins*

ore 17.00-17.20 M. Rossi, P. Mosca, R. Polino & S. Rogledi - *The Alps-Apennines junction (ii): facies and seismic constraints on the timing of deformation and regional geology*

ore 17.20 –17.40 S.Scarselli, G.Minelli, G.Simpson, P. Allen- *Sea level changes Vs tectonics: a fem numerical model*

ore 17.40 –18.00 G.Gosso & M.I. Spalla - *Stratigraphy in the continental crust: obvious or intriguing?*

ore 18.00 – 18.20 G.Oggiano e A.Funedda - *The Sardinia-Corsica block and its role in the Northern Apennine geodynamic.*

ore 18.20-19.00 aperitivo

ore 20.30 cena sociale presso il Ristorante “I Santi”

## Venerdì 26 Ottobre

ore 9.00 **Comunicazioni** – chairman: G.Oggiano

ore 9.00 –9.20 G.B.Piccardo, Ranalli G. & Vissers R.L.M. - *The geodynamic evolution of the Jurassic Ligurian Tethys viewed from a mantle perspective*

ore 9.20 –9.40 Mantovani E., Viti M., Babbucci D., Tamburelli C. - *Geodynamics of the Tyrrhenian-Apennines system: science or faith?*

ore 9.40-10.00 A.Argnani - *Plate Tectonics and the boundary between Alps and Apennines*

ore 10.00 – 10.20 F. Calamita, P. Esestime, W. Paltrinieri, S. Satolli, V. Scisciani, E. Tavarnelli & M. Viandante - *The role of Adria paleomargin architecture on Geometry and kinematics of Neogene-Quaternary evolution of the Central-Southern Apennine chain.*

ore 10.20 –10.50 coffee break e **sessione poster**

ore 10.50 **Comunicazioni** – chairman: A.Lazzarotto

ore 10.50 – 11.10 V. Scisciani & Calamita F.- *Active intraplate deformation within the Adria microplate: examples from the Adriatic region*

ore 11.10 – 11.30 G. Toscani, P. Burrato, D. Di Bucci, S. Seno, G. Valensise - *Plio-Quaternary tectonic evolution of the Northern Apennines thrust fronts along the Bologna-Ferrara section (Po Plain, Italy), based on geological observations and analogue modelling: seismotectonic implications*

ore 11.30 – 11.50 M. R. Barchi, G. Bortoluzzi, L. Gasperini, M. Ligi & C. Pauselli - *Tectonic-sedimentary evolution of the Lake Trasimeno: a seismic reflection study*

ore 11.50 – 12.10 F. Brozzetti, P. Boncio, D. Di Naccio, G. Lavecchia, D.P. Tinari, L. Torelli, M. Bernini, E. Eva & S. Solarino - *A multidisciplinary approach to the seismotectonics of the Lunigiana and Garfagnana extensional basins (Northern Tuscany, Italy)*

ore 12.10 – 12.30 A. Dini, F. Farina, F. Innocenti, S. Rocchi & D.S. Westerman - *Monte Capanne Pluton revisited 40 years after Giglia's contributions*

ore 12.30-13.30 pranzo

ore 13.30 **Comunicazioni** - chairman: A.Zanferrari

ore 13.30 – 13.50 D. Scafidi, P. Morasca, S.Solarino & C. Eva- *A new deep picture of the alps-apennines system derived from seismological data*

ore 13.50 – 14.10 M. Gattiglio, P. Mosca, A. Borghi, M. Malusà - *The Ambin Massif: a stack of different pre-alpine continental units*

ore 14.10 – 14.30 G.Capponi, L.Crispini & L.Federico- *Transpressional regime at the Alps/Apennine boundary (central Liguria, NW Italy)*

ore 14.30 – 14.50 C. Bertok, A. d'Atri, L. Martire, A. Musso, F. Piana, D. Varrone, G. Martinotti,

- *Pre-Alpine syn-sedimentary tectonics and heterogeneity of "Alpine" deformation in the Apennines-age kinematic evolution of Western Ligurian Brianconnais (Marguareis-Mongioie area)*

ore 14.50 – 15.10 G.Cassinis & C.R. Perotti - *Permian tectonics, unconformities and hiatuses around the Adamello alpine intrusion (N Italy)*

ore 15.10 – 15.30 L.Tortorici, S. Catalano, G. Casini, G. Grasso, G. Romagnoli & G. Tortorici- *Evidence of crustal shearing in the Peloritani Mountains (NE Sicily): new constraints for the evolution of the Calabrian arc*

15.30 – 15.50 E. Gueguen, M. Bentivenga, G. Palladino, G.Prosser & M. Sileo - *Tilting of terraced surfaces in the Taranto Gulf: consequences of Apennines front propagation?*

15.50 – 16.20 coffee break e **sessione poster**

ore 16.20 **Comunicazioni** – chairman: L.Tortorici

ore 16.20 – 16.40 C. Monaco & G. de Guidi - *Structural evidence for Neogene rotations in the Sicilian fold and thrust belt*

ore 16.40 – 17.00 B.Massa, S. Morabito & A. Zuppetta - *Geological studies to investigate areas of active tectonics: an example from Southern Italy.*

ore 17.00 – 17.20 M. Grasso , R. Maniscalco & G. Sturiale - *A case history for messinian evaporite syntectonic deposition: the Corvillo basin of Central-North Sicily*

ore 17.30 Chiusura convegno

## PROGRAMMA SESSIONE POSTERS

**Giovedì 25 ottobre**

ALBERTI M., ANTONI M., BERNARDINI F., CAMPATELLI L., CASINI G., CECCHERINI S., DANI G., GIANNETTI F., MARROCCHESI M., MELANI U., PACCIANI A., ROSSI PACCANI S., ROSSI P.F., SCALCIONE G.M., SPALLONE S., SPINA A., TAVARNELLI E. & TOSONI M. - Tonino Decandia, Professor of Geology at the University of Siena: a Tribute from his Students.

ALDINUCCI M., GANDIN A. & MINZONI N. - The Tithonian-Berriasian carbonates of the Stilo Unit (Aspromonte, Calabria) and Capo Figari (NE Sardinia): depositional setting and paleogeographic significance.

AQUÈ R. & TAVARNELLI E. - The contribution of 3D restoration for the reconstruction of pre-thrusting basin geometry.

BAIETTO A., CADOPPI P., PERELLO P. & MARTINOTTI G. - Structural constraints to the thermal circulations in the Argentera Massif (Western Alps).

BALESTRO G., CADOPPI P. & TALLONE S. - Structural evolution along the inner sector of the Western Alps: the Col del Lis-Trana Deformation Zone.

BENTIVENGA M., COLTORTI M., PALLADINO G. & SILEO M. - Terraced marine and fluvial deposits along the lower Agri River Valley (Lucanian Ionian coast – Southern Italy)

BONINI M., AGOSTINI A., BENVENUTI M., CORTI G., INNOCENTI, MANETTI P., SANI F., ZEOLI A. - Holocene faulting in the Main Ethiopian Rift.

BUCCI F., D'ONOFRIO D., TAVARNELLI E. & PROSSER G. - Triangular Facets or Flatirons? A note of caution from the Lucanian Apennines, Italy.

CENTAMORE E. & ROSSI D. - Tectonics and sedimentation in Central Apennines during Messinian - early Pliocene.

CENTAMORE E., ROSSI D. & TAVARNELLI E. - Geometry and kinematics of Triassic-to-Recent structures in the Northern-Central Apennines: a review and an original working hypothesis.

CILUMBRIELLO A., SABATO L. & TROPEANO M. - Stratigraphic constraints for the Early Pleistocene geodynamic evolution of the Bradanic trough in-fill.

CORBI F., CUGLIARI D., LUCÀ F., FUBELLI G., PELLE T., ROBUSTELLI G., SCARCIGLIA F., DRAMIS F., MUTO F., PULICE I. - Subsidence and uplift during Pliocene and Pleistocene in north-eastern Calabria: geomorphological, stratigraphical and pedological constraints.

CRISPINI L., CAPPONI G. & FEDERICO L. – The “Genova” quadrangle of the 1:50.000 scale geological map of Italy, CARG Project.

DI STASO A., PERROTTA S., GUERRERA F., PERRONE V. & TRAMONTANA M. - The Poggio del Carnaio SandstoneS: age, petrography and importance for the reconstruction of the Northern Apennines evolution.

GALLICCHIO S. - Stratigraphic and tectonic remarks on the easternmost thrust sheets of the Southern Apennine thrust-belt. Paleogeographic implications.

GARFAGNOLI F., MENNA F., NIRTA G., PANDELI E. & PRINCIPI G. - Structural evolution of the contact area between Alpine and Variscan Corsica, in the area between Corte and the Inzecca Massif.

GASCO I., GATTIGLIO M. & BORGHI A. - Alpine structural evolution of oceanic and continental units in the middle Orco Valley, Western Italian Alps.

GIAMMARINO S., OREZZI S., PIAZZA M. & ROSTI D. - Evidence of syn-sedimentary tectonic activity in the "Flysch di Ventimiglia" (Ligurian Alps foredeep basin).

GIAMMARINO S., OREZZI S., PIAZZA M. & ROSTI D. - Structural setting of Ligurian Alps chain front in the Val Argentina – Val Nervia area (NW Italy).

GUEGUEN E., PROSSER G. & ADURNO I. - Relationships between Campano-Lucana Platform and Lagonegro Basin: new data and regional implications.

GOSSO G., MESSIGA B., REBAY G., SPALLA M. I. - The interplay between deformation and metamorphism during Alpine eclogitisation of pre-Alpine amphibolites in the Sesia-Lanzo Zone (Italian Western Alps).

LABRIOLA M., ONOFRIO V., GALLICCHIO S. & TROPEANO M. - Stratigraphic and structural features of the frontal sector of the lucanian Apennines between Acerenza and Oppido Lucano (Potenza, Basilicata).

LAURITA S., PROSSER G., RIZZO G. & CAVALCANTE F. - Structural and metamorphic features of low-grade metasedimentary rocks of the Frido Unit (Southern Apennines).

LAVECCHIA G., BONCIO P., BROZZETTI F., PACE B., VISINI F. - A 500 km long active extensional fault system in central Italy: structural style, seismogenesis and hazard assessment implications.

LIBERI F. & PILUSO E. - Tectonometamorphic evolution of the Northern Calabrian arc ophiolitic accretionary wedge.

MALASOMA A., MARRONI M. & PANDOLFI L. - Tectono-metamorphic evolution of the External Continental Units of Alpine Corsica (France): evidence for involvement of the Europe/Corsica continental margin in the Alpine subduction zone.

PERRONE G., MORELLI M., CADOPPI P. & TALLONE S. - Integration of remotely sensed lineaments and geo-structural analysis in the study of the fault network in the inner sector of the Cottian Alps (Western Alps).

PERTUSATI S., BUONANNO A., ZUPPETTA A. - Structural evolution of a foreland basin succession: the Daunia Unit in the Sannio-Molise sector of the Southern Apennines.

SCALERA G. – A new model of orogenic evolution.

VISINI F., DE NARDIS R., LAVECCHIA G. - Crustal structure and seismotectonics of the Apennine-Maghrebian thrust system: insights from two regional transects across central-eastern Italy (Todi - P.S. Giorgio) and eastern Sicily (Capo d'Orlando - Catania).

## Venerdì 26 ottobre

ALBERTI M., ANTONI M., BERNARDINI F., CAMPATELLI L., CASINI G., CECCHERINI S., DANI G., GIANNETTI F., MARROCCHESI M., MELANI U., PACCIANI A., ROSSI PACCANI S., ROSSI P.F., SCALCIONE G.M., SPALLONE S., SPINA A., TAVARNELLI E. & TOSONI M. - Tonino Decandia, Professor of Geology at the University of Siena: a Tribute from his Students.

AQUÈ R., BROGI A. & LAZZAROTTO A. - Three-dimensional geological model of the Larderello geothermal area (Southern Tuscany, Italy).

AQUÈ R., BROGI A., LAZZAROTTO A. & COSTANTINI A. - Three-dimensional visualisation of a faulted fold system from the inner Northern Apennines (i.e. southern Tuscany, Serre di Rapolano, Italy).

ARTONI A., BERNINI M., PAPANI G., RIZZINI F. & BARBACINI G. - From debris flows to sliding masses in a confined basin at the toe of an orogenic wedge: the case of the Messinian mass-wasting deposits of North-Western Apennine of Italy.

BARSELLA M., BOTTI F., MARRONI M., MENEGHINI F., PALANDRI S. & PANDOLFI L. - Stratigraphy of the thrust sheets lying between the Tuscan Nappe and the Umbria-Romagna Unit (Toscana-Umbria area): elements for the reconstruction of the Oligo-Miocene North-Apennine foredeep.

BONCIANI F., CORNAMUSINI G., CALLEGARI I., CONTI P. & FORESI L.M. - The role of the "Coltre della Val Marecchia" within the tectonic-sedimentary evolution of the Romagnan-Marchean Apennines.

BROGI A. - Permeability feature, hydrothermal alteration and fault zone architecture in the siliceous sedimentary rocks (Diaspri Fm) of the Rapolano Terme area (Northern Apennines, Italy).

BROGI A. & FABBRINI L. - The Monte Penna thrust (Selvena, southern Tuscany): a record of the Northern Apennines collisional event within the Tuscan Nappe

BROGI A., GIORGETTI G. & CERBONESCHI A. - Tectono-metamorphic setting of the Tuscan Nappe in the Colline Metallifere area (Montieri-Poggio Prugnoli, southern Tuscany)

BROGI A., LAZZAROTTO A. & GRASSI S. - The Bagno Vignoni 1 borehole log (northern Mt. Amiata geothermal area, southern Tuscany)

BROGI A., ALDINUCCI M., SANDRELLI F., LAZZAROTTO A., COSTANTINI A. & CORNAMUSINI G. - Collisional records within the Tuscan Nappe from the Monti Livornesi (Northern Apennines, Italy): the Sassetta thrust.

BRUNI P., CIPRIANI N., NEBBIAI M. & PANDELI E. - The contribution of the petrographic modal analysis to the stratigraphy and structure of the Northern Apennines.

DONATELLI U. & TRAMONTANA M. - Jurassic paleogeographic and paleotectonic evolution of the M. Catria - M. Acuto area (Umbria-Marche Apennines, Italy).

CAPEZZUOLI E., COSTANTINI E.A.C., PRIORI S. & SANDRELLI F. - Stratigraphic aspects from the Middle Pleistocene continental deposits of the southern Valdelsa Basin.

CASINI G. & TAVARNELLI E. - Post-orogenic extension in southern Tuscany: distinct extensional episodes or progressive exhumation?

EVA C., EVA E., SCAFIDI D., SOLARINO S., TURINO C. - Seismotectonic analysis of a complex fault system in Italy: the "Garfagnana-North" (Northern Tuscany) line.

FACCENDA M., MINELLI G., TARRAS G. - Dynamics of Continental Plate Retreating: a Numerical Study Applied to the Northern Apenninic Belt.

MENNA F., GARFAGNOLI F., TREVES B. & PRINCIPI G. - The Bracco Massif (Eastern Liguria, Italy): an example of dynamic crystallization during the emplacement of a gabbroic body?

MOLLI G., BONANNI G., BOTTI F., PELLEGRINO F., UNGARI A., BARSELLA M. & BALDACCIO F. - The structure of the Val di Lima Mesozoic inlier: a revision for the F.251 Carg.

MOLLI G., BOTTI F., D'AMATO AVANZI G., NARDI I. & PERTUSATI P.C. - Recent faulting nearby Pisa: geological-geomorphological observations and preliminary structural analyses.

MOLLI G., VASELLI L., CORTECCI G., OTTRIA G., CORTOPASSI A., DINELLI E., BARBIERI M. & MUSSI M. - High angle faulting in the Carrara marble (NW Tuscany, Italy): fault zone architecture and fluid-rock interaction.

MONTOMOLI C., CAROSI R. & PERTUSATI P.C. - Tectonic and metamorphic evolution of Uccellina Mounts (Southern Tuscany, Italy).

MUSUMECI G., MAZZARINI F. & SANI F. - Pliocene crustal shortening in southern Tuscany (northern Apennines, Italy): insight from magmatism and sedimentary basins tectonics.

NIRTA G., GARFAGNOLI F., MENNA F. & PRINCIPI G. - Hypothesis of large-scale strain partitioning during the closure of the Ligurian-Piedmontese Ocean: comparison between the structural evolution of the Ligurian Units in the northern and southern sectors of the Northern Apennine.

PANDELLI E. & PRINCIPI G. - Pre- and post-collisional evolution of the Northern Apennines orogen.

PISCOPO D., GATTIGLIO M. & ROSSO C. - A new structural setting for Mt. Cetona Ridge (Southern Tuscany).

QUARANTA F., PIAZZA M. & VANNUCCI G. - Climatic and tectonic control on the distribution of the Oligocene reefs of Tertiary Piedmont Basin (NW Italy).

VASELLI L., OTTRIA G., MOLLI G. & CORTOPASSI A. - Polyphase evolution of brittle faulting in the Alpi Apuane (NW Tuscany, Italy): an example from the Arni marble basin.