Marco Roveri

Full Professor
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Curriculum vitae

Born in Bologna (Italy) on September 1st, 1959, graduated in Geological Sciences at Bologna University on 1983, he joined Agip S.p.A on 1986, working in the Sedimentology Unit.
Researcher at the CNR Institute of Marine Geology from 1990 to 2000; in this position he participated to several scientific projects and cruises on board of CNR research vessels in the Mediterranean Sea as scientist and chief scientist.
Full Professor of Stratigraphy and Sedimentology at the Earth Science Department of the University of Parma (Italy) since 2000 (now Department of Physics and Earth Sciences).
President of GeoSed (Italian Association for Sedimentary Geology) from 2005 to 2008.
Member of the Commission for the National Scientific Abilitation 2012-2013 (ASN; area 04/A2).
He is currently coordinator of the Earth Sciences Scientific Committee of the University of Parma.

Research themes

Main research interests concern the sedimentology, physical-stratigraphy, palaeoceanography and palaeoecology of Neogene Mediterranean deposits, with particular attention to the problems related to the Messinian Salinity Crisis, the climatic control on high-frequency cyclicity of siciliclastic sedimentary successions and to the relationships between tectonics and sedimentation in syn-orogenic basins and their implications on facies distribution and stratigraphic architectures.

Research Projects

He has been Principal Investigator of:
2003 PRIN-Cofin Project "The late Messinian Lago Mare event: high-resolution stratigraphy, tectonic and climatic control on high-frequency paleoenvironmental changes related to the final stage of the Messinian Salinity Crisis of the Mediterranean area"
2006 PRIN-Cofin Project "Origin, timing and facies distribution of the Messinian Salt deposits in the basins of the central Mediterranean area (Sicily, Calabria and Tuscany) and their larger-scale implications for the Messinian salinity crisis"
2008 PRIN-Cofin Project "High-resolution stratigraphy, palaeoceanography and palaeoclimatology of the Mediterranean area during the Messinian salinity crisis"2005-2008 - President of GeoSed, the Italian Association of Sedimentary Geology
2013 - Among the proponents of DREAM (Deep-sea Record of Mediterranean Messinian events)
He has collaborated with Industry (mainly oil companies; Eni, Petrobras, Edison) in several joint

projects (etc.) focused on outcrop analogs of hydrocarbon reservoirs.

Awards

Norman Falcon Award 2017

Eage Best Paper Award for the paper ´The Messinian salinity crisis: open problems and possible implications for Mediterranean petroleum systems´, published in Petroleum Geoscience, volume 22, issue 4, November 2016, pp. 283-290.

Publications

in press

- MANZI, V., ARGNANI, A., CORCAGNANI, A., LUGLI, ROVERI, M. The Messinian Salinity Crisis in the Adriatic foredeep: Evolution of the largest evaporitic marginal basin in the Mediterranean. MARINE AND PETROLEUM GEOLOGY

2019

- ROVERI, M., GENNARI, R., LIGI, M., LUGLI, S., MANZI, V., REGHIZZI, M. The synthetic seismic expression of the Messinian salinity crisis from onshore records: implications for shallow- to deep-water correlations. BASIN RESEARCH, 31, 1121-1152, DOI: 10.1111/bre.12361

- ISAJI, J., YOSHIMURA, T., KURODA J., TAMENORI, Y., JIMENEZ-ESPEJO, F.J., LUGLI, S., MANZI, V., ROVERI, M., KAWAHATA H. and OHKOUCHI, N. Biomarker records and mineral compositions of the Messinian halite and K-Mg salts from Sicily. PROGRESS IN EARTH AND PLANETARY SCIENCE, 6:60. DOI: 10.1186/s40645-019-0306-x

- ROVERI, M., GENNARI, R., PERSICO, D., ROSSI, F.P., LUGLI, S., MANZI, V., REGHIZZI, M., TAVIANI, M. A new chronostratigraphic and palaeoenvironmental framework for the end of the Messinian salinity crisis in the Sorbas Basin (Betic Cordillera, Southern Spain). GEOLOGICAL JOURNAL., 54, 1617-1637. DOI: 10.1002/gj.3256

- ISAJI, J., KAWAHATA H., TAKANO Y., OGAWA N.O., KURODA J., YOSHIMURA, T., LUGLI, S., MANZI, V., ROVERI, M. and OHKOUCHI, N. Diazotrophy drives primary production in the organic-rich shales deposited under a stratified environment during the Messinian salinity crisis (Vena del Gesso, Italy). FRONTIERS IN EARTH SCIENCE, 07 May 2019 | https://doi.org/10.3389/feart.2019.00085.

- FRESCHI, A., CAU, S., MONEGATTI, P., ROVERI, M. Chronostratigraphic distribution of cetaceans in the Pliocene of Northern Apennines (Italy): palaeoecological implications. PALAEOGEOGRAPHY, PALAEOCLIMATOLOGY, PALAEOECOLOGY, 526, 13-27.

- ISAJI, J., KAWAHATA H., OGAWA N.O., KURODA J., YOSHIMURA, T., JIMENEZ-ESPEJO, F.J., MAKABE, A., SHIBUYA, T., LUGLI, S., SANTULLI, A., MANZI, V., ROVERI, M. and OHKOUCHI, N. Efficient recycling of nutrients in modern and past hypersaline environments. SCIENTIFIC REPORTS, 9, 1-12.

- CAU, S., LAINI, A., MONEGATTI, P., ROVERI, M., SCARPONI, D., TAVIANI, M. Palaeocological anatomy of shallow-water Plio-Pleistocene biocalcarenites (Northern Apennines, Italy). PALAEOGEOGRAPHY, PALAEOCLIMATOLOGY, PALAEOECOLOGY, 514, 839-851.

2018

- REGHIZZI, M., LUGLI, S., MANZI, V., ROSSI. F.P., ROVERI, M., 2018. Orbitally Forced Hydrological Balance During the Messinian Salinity Crisis: Insights From Strontium Isotopes ($^{87}Sr/^{86}Sr$) in the Vena del Gesso Basin (Northern Apennines, Italy). PALEOCEANOGRAPHY AND PALEOCLIMATOLOGY, 33, 716-731.

- MANZI, V., GENNARI, R., LUGLI, S., PERSICO, D., REGHIZZI, M., ROVERI, M., SCHREIBER, B.C., CALVO, R., GAVRIELI, I., GVIRTZMAN, Z., 2018. The onset of the Messinian Salinity Crisis in the deep Eastern Mediterranean Basin. TERRA NOVA. 30, 189-198.

- GENNARI, R., LOZAR, F., TURCO, E., DELA PIERRE, F., MANZI, V., NATALICCHIO, M., LUGLI, S., ROVERI, M., SCHREIBER, B.C., TAVIANI, M., 2018. Integrated stratigraphy and paleoceanographic evolution of the pre-evaporitic phase of the Messinian salinity crisis in the Eastern Mediterranean as recorded in the Tokhni section (Cyprus island). NEWSLETTERS ON STRATIGRAPHY., 51, 33-55.

2017

- GVIRTZMAN Z., MANZI V., CALVO R., GAVRIELI I., GENNARI R., LUGLI S., REGHIZZI M., ROVERI M., 2017. Intra-Messinian truncation surface in the Levant Basin explained by subaqueous dissolution. GEOLOGY, 45, 915-918.

- Y. ISAJI, H. KAWAHATA, J. KURODA, T. YOSHIMURA, N. O. OGAWA, A. SUZUKI, T. SHIBUYA, F.J. JIMÉNEZ-ESPEJO, S. LUGLI, A. SANTULLI, V. MANZI, M. ROVERI, Naohiko Ohkouchi, 2017. Biological and physical modification of carbonate system parameters along the salinity gradient in shallow hypersaline solar salterns in Trapani, Italy. GEOCHIMICA ET COSMOCHIMICA ACTA, 208, 354-367.

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- M. REGHIZZI, R. GENNARI, E. DOUVILLE, S. LUGLI, V. MANZI, P. MONTAGNA, M. ROVERI, F.J. SIERRO, M. TAVIANI, 2017. Isotope stratigraphy (87Sr/86Sr, δ18O, δ13C) of the Sorbas

basin (Betic Cordillera, Spain): Paleoceanographic evolution across the onset of the Messinian salinity crisis. PALAEOGEOGRAPHY, PALAEOCLIMATOLOGY, PALAEOECOLOGY, 469, 60-73.

2016

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