

ANGELO CAMERLENGHI, Curriculum Vitae, November, 2020

Born in Bergamo, Italy, 26 August 1960, married, with 3 children.

EDUCATION

Laurea, Milano, Earth Sciences, 1984

MS, College Station TX, Geological Oceanography, 1988 Doctorate, Milano, Earth Sciences, 1991

PRESENT POSITION (since 2012):

Dirigente di Ricerca

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale OGS Borgo Grotta Gigante 42/C

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Mother language: Italian Fluent in English, Fluent in Spanish, Basic knowledge of Catalan

PROFESSIONAL BACKGROUND

Research Assistant, Ocean Drilling Program, 1000 Discovery Dr., Texas 77843, Sep 1986 to Sep 1988. Assistant Secretary at the ESCO (ESF Scientific Consortium for ODP) Secretariat, Department of Earth Sciences, University of Milano, Jul 1989 to Sep 1991.

Researcher at Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS), Dec 1991 to Jul 2004.

ICREA Research Professor, Institutió Catalana de Recerca i Estudis Avançats, C/o Departament d'Estratigrafia, P. i Geociències Marines Universitat de Barcelona / Facultat de Geologia, Sep 2004 to Jul 2012.

TEACHING EXPERIENCE AND ACADEMIC ADVISORSHIPS

Tutor or co-tutor of 9 PhD programs, Universities of Siena, Barcelona, Trieste, Granada

External Examiner of PhD dissertations in Italy, Spain, Belgium, U.K., and Norway

Lecturer, Laboratory of Geology, University of Milano, 1990-1991

Invited Lecturer International School of Earth and Planetary Sciences (CNR and University of Siena, Italy), 1996

Contract Professor Marine Geology, University of Milano, 1997-1998

Lecturer, Geosciences, International Maritime Academy di Trieste, Italy, 1999

Associate Professor of the University of Barcelona, Faculty of Geology. Courses: Fluid circulation in Marine Sediments, European Master Program of Oceanography and Management of the Marine Environment.

Antarctic Marine Geology, Doctorate Program Marine Sciences, University of Barcelona, 2007-2010

Contract Professor, University of Trieste, Department of Mathematics and Geosciences, Course: Marine Geology, 2012 - present

CO-ORDINATION AND MANAGEMENT OF RESEARCH STRUCTURES AND ACTIVITIES

ESCO Delegate to the ODP Site Survey Panel, 1992-1995.

Member of the Scientific Board of the CNR Research Institute GeoMare Sud, Naples, 1994-2002.

Member of the CNR Committee for the co-ordination for the Italian participation in the Ocean Drilling Program, 1995-2003.

Chairman of IODP-Italia, National Committee for the Italian Participation to the Integrated Ocean Drilling Program (IODP) and Italian Delegate to the ECORD Science Support and Advisory Committee (ESSAC), 2004-2005.

Member of the Scientific Board of MARUM, University of Bremen, Germany, 2006 – present.

Member of IODP-España, Management Committee for the Spanish participation in IODP, 2006-2011.

MUR (Italian Ministry of University and Research) delegate in the Management Board of CIESM (The Mediterranean Scientific Committee), 2013

MUR (Italian Ministry of University and Research) delegate in the Management Board of JPI Oceans, 2013- present.

MUR (Italian Ministry of University and Research) delegate in the Western Mediterranean Dialogue Forum (5+5) Research and Innovation, 2013- present.

Member of the Scientific review Panel of the “Alfred Wegener Institute” (AWI), Helmholtz Association of German Research Centers and its research center, 2018.

LEADING SCIENTIFIC ACTIVITY WITHIN THE OCEAN DRILLING RPOGRAM

Principal Proponent of ODP drilling proposal "Time progressive Continental Collision: The Mediterranean Ridge Accretionary Complex in the Eastern Mediterranean. ODP Leg 160, 1993-1995.
Co-proponent of ODP drilling proposal "Antarctic Peninsula Pacific Margin: Antarctic Glacial History and Causes of Sea Level Changes", ODP Leg 178 (Antarctic Peninsula), 1995-1998.
Co-chief Scientist of ODP Leg 178 (Sea-Level Change and Glacial History, Antarctic Peninsula), 1998.
Principal proponent of ECORD Magellan+ Workshop Deep-sea Record of Mediterranean Messinian events (DREAM) Brisighella (Ravenna) Italy., 5-8 May 2013.
Principal proponent of IODP Multiple Platform Drilling Proposal 857-MDP2, Uncovering a Salt Giant. Endorsed by the IODP Scientific Evaluation Panel (SEP) in January 2015.
Co-Proponent of IODP Drilling Proposal P857B_1 Deep-Sea Records of the Messinian Salinity Crisis. Under review by the IODP Scientific Evaluation Panel (SEP). 2015

LEADING SCIENTIFIC ACTIVITY IN THE ITALIAN ANTARCTIC PROGRAM (PNRA)

Structural Evolution of the Pacific Margin of the Antarctic Peninsula: Progressive collision between trench and ridge 1993-94. €46,500.00_
Giant Sedimentary Deposits by Bottom Currents on the Pacific Margin of the Antarctic Peninsula (SEDANO). In co-operation with the British Antarctic Survey. 1994-96. €121,000.00_ plus 30 days ship time of R/V OGS-Explora.
Sediment Drifts of the Antarctic Offshore (SEDANO-II) in co-operation with the British Antarctic Survey. 1996-97. €102,800.00_ plus 30 days ship time of R/V OGS-Explora.
ODP (Ocean Drilling Program) Leg 178. In co-operation with the British Antarctic Survey and Hamilton College. 1997-98 and 1998-99. €84,700.00_ plus 7 days ship time of R/V OGS-Explora.
High Resolution Morphological Mapping of a Complete Glacial Depositional System of the Antarctic Peninsula (SEDANO-IIIB) in co-operation with the Spanish Antarctic Program 1999-2000. €41.300.00.

LEADING SCIENTIFIC ACTIVITY WITHIN EC-FUNDED PROGRAMS

Principal investigator (OGS Partner) of the MAST-II project An Integrated Investigation of the Fluid Flow Regime of the Mediterranean Ridge (MEDRIFF) (Contract MAS2-CT92- 0037 MEDRIFF), 1993-1996. €69,000
Principal investigator (OGS Partner) of the FPV project Techniques for the Quantification of Methane Hydrate in European Continental Margins (HYDRATECH) (Contract EVK3-CT- 2000-00043), 2001-2003. €121,153.00.
Principal investigator (OGS Partner) of the of the FP V Research Training Networks “European Deep Ocean Margins: A New Training-Through-Research Frontier” (EURODOM) (Contract HPRN-CT-2002-00212), 2003-2006. €196,200.00.
Principal proponent at OGS within the Integrated Project Hotspot Ecosystems Research on the Margins of European Seas (HERMES), co-ordinated by Phil Weaver, 2005-2008 (allocated €200,120.00).
Co-ordinator of Marie Curie action proposal (intra-European fellowships) Geological Assessment of Gas Hydrates in the Mediterranean Sea (HYDRAMED) (Contract MEIF- CT-2003-501814). €197,239.00.
Co-ordinator of COST Action CA15103 (Uncovering the Mediterranean Salt Giant), 2015- 2020.
OGS Coordinator as Beneficiary Institution of Marie Skłodowska-Curie Action - Submarine Landslides And Their Impact On European Continental Margins - SLATE, 2017-2021, Total contribution pprox. €254,000.00.
OGS Coordinator as Beneficiary Institution of Marie Skłodowska-Curie Action - Understanding the Mediterranean Salinity Crisis – SALTGIANT, 2018-2022, Total contribution pprox. €254,000.00.

SCIENTIFIC ACTIVITY IN INDUSTRY-FUNDED PROJECTS

Research Contract with SINTEFF Civil and Environmental Engineering (Norway) within the project Ormen

Lange Verification on Seabed Stability, Activity 7 - Gas Hydrates. 2000- 2003. €36,553.85.
Associate research Contract with the University of Parma for the project Study of the mechanisms of deformation of the Eastern Mediterranean accretionary wedge. Project funded by ENI AGIP Division (Contract AGIP n. 01-7909457/AB, 10/11/1998). €10,325.00.
UB- GRC Geociències Marine team member in contract with ENDESA for seabed characterization between the islands of Mallorca, Ibiza, and Formentera prior to electrical cable deployment (Contract ref. FBG 303242), 2005, €30,000.00.
ANAV - ASOCIACION NUCLEAR ASCÓ-VANDELLÓS II, A.I.E. Realizacion de los ensayos necesarios a realizar para la caracterizacion de la falla de la Almadrava y de la falla del Camp. Onshore and Offshore. Contact OGS. 2013-2014.

LEADING RESEARCH ACTIVITY FUNDED BY OTHER INSTITUTIONS

The development of an Arctic ice stream-dominated sedimentary system: The southern Svalbard continental margin (SVAIS) (POL2006-07390/CGL), Spanish International Polar Year (IPY). 2006 – 2009. €272,250.00 plus 20 days of ship time of the BIO Hesperides.
Deep Sedimentary Environment of the South Balearic Margin (SBAL-DEEP). In-kind OGS funding of 10 days of ship-time of the R/V OGS-Explora (20-30 September 2005), equivalent to €180,000.
Evolución de la DINámica SEDimentaria en márgenes continentales durante cambios de régimen climático (EDINSED) (CTM2007-64880/MAR) (coordinator since october 2009) Ministerio de Educación y Ciencia (MEC) de España. 2007-2010. €58,000.00.
Corrientes de hielo del Neogeno y procesos sedimentarios en margenes continentales polares (IPY - NICE STREAMS) CTM2009-06370-E/ANT. 2009-2010. €45,000.00.
Historia de la deglaciacion del mar de Barents norte-occidental en sedimentos marinos de paleo-corrientes de hielo (DEGLABAR). CTM2010-17386 funded by the Ministerio de Ciencias y Innovación (MCIN). Principal Investigator until 2012. 2010 – 2015. Total Contribution: €230,000.00.

OUTREACH AND EDUCATIONAL ACTIVITY

Scientific advisor and author of texts within the Agreement of Cooperation between OGS and CNR-IRPI to produce scientific documentaries. 5 documentaries produced and published by OGS and CNR. 1999-2004.
Co-ordinator of the project: Mare Nostrum, Terra Nostra, Generalitat de Catalunya. €1,900.00 (2004) €5,000.00 (2008) and €6,000.00 (2009).
Member of the EGU Sub-Committee on Education. 2003 - 2014
Coordinator of the project: Geoscience information for teachers 1/2/3 (CataGIFT), funded by the Generalitat de Catalunya with a grant of €8,400.00 in 2007, €4,000.00 in 2008 and €5,000.00 in 2009.
Speaker in the University of Catalan Kids event organized by the association of public universities in Catalunya (19/10/2010).

PUBLICATIONS RECORD

125 scientific articles in SCOPUS (November 2020). Hirsch index H = 38. Total citations: 4402

Last 10 publications in peer-reviewed scientific journals

Spatola, D., del Moral-Erencia, J.D., Micallef, A., **Camerlenghi, A.**, Garcia-Castellanos, D., Gupta, S., Bohorquez, P., Gutscher, M., and Bertoni, C. 2020. A single-stage megaflood at the termination of the Messinian salinity crisis: Geophysical and modelling evidence from the eastern Mediterranean Basin, *Marine Geology*, vol. 430. Article number 106337. <https://doi.org/10.1016/j.margeo.2020.106337>
Petrini, M., Colleoni, F., Kirchner, N., Hughes, A.L.C., **Camerlenghi, A.**, Rebesco, M., Lucchi, R.G., Forte, E., Colucci, R.R., Noormets, R., and Mangerud, J., 2020. Simulated last deglaciation of the Barents Sea Ice Sheet primarily driven by oceanic conditions, *Quaternary Science Reviews*, 238, 106314, <https://doi.org/10.1016/j.quascirev.2020.106314>
Camerlenghi, A., and Aloisi, V., 2020. Uncovering the Mediterranean Salt Giant (MEDSALT) – Scientific Networking as Incubator of Crossdisciplinary Research in Earth Sciences. *European Review*, Academia

- Europaea, 28(1), pp. 40-61 <https://doi.org/10.1017/S1062798719000255>
- Garcia-Castellanos, D., Micallef, A., Estrada, F., **Camerlenghi, A.**, Ercilla, G., Perriáñez, R. and Abril, J.M., 2020. The Zanclean megaflood of the Mediterranean – Searching for independent evidence. *Earth-Science Reviews*, Volume 201. February 2020, Article number 103061. <https://doi.org/10.1016/j.earscirev.2019.103061>
- Poort, J., Lucazeau, F., Le Gal, V., Dal Cin, M., Leroux, E., Bouzid, A., Rabineau, M., Palomino, D., Battani, A., Akhmanov, G.G., Ferrante, G.M., Gafurova, D.R., Si Bachir, R., Koptevr, A., Tremblin, M., Bellucci, M., Pellen, R., **Camerlenghi, A.**, Migeon, S., Alonso, B., Ercilla, G., Yelles-Chaouche, A.K. and Khlystov, O.M., 2020. Heat flow in the Western Mediterranean: Thermal anomalies on the margins, the seafloor and the transfer zones. *Marine Geology* Volume 419, January 2020, 106064. <https://doi.org/10.1016/j.margeo.2019.106064>
- Caricchi, C., Sagnotti, L., Campuzano, S.A., Lucchi, R.G., Macrì, P., Rebesco, M. and **Camerlenghi, A.** 2020. A refined age calibrated paleosecular variation and relative paleointensity stack for the NW Barents Sea: Implication for geomagnetic field behavior during the Holocene. *Quaternary Science Reviews*, Volume 229, 1 February 2020, 106133 <https://doi.org/10.1016/j.quascirev.2019.106133>
- Ford, J. and **Camerlenghi, A.**, 2019. Geostatistical characterisation of internal structure of mass-transport deposits from seismic reflection images and borehole logs. *Geophysical Journal International*, <https://doi.org/10.1093/gji/ggz570>
- Cicconi, A., Lupi, C., and **Camerlenghi, A.**, 2019. Effective Teacher's Professional Development: the case of School of Rock in Italy. *Rendiconti Online della Società Geologica Italiana*, 49, 99-106. <https://doi.org/10.3301/ROL.2019.58>
- Camerlenghi, A.**, Del Ben, A., Hübscher, C., Forlin, E., Geletti, R., Brancatelli, G., Micallef, A., Saule, M., Facchin, L., 2019. Seismic markers of the Messinian salinity crisis in the deep Ionian Basin. *Basin Research*. <https://doi.org/10.1111/bre.12392>
- Tommasi, P., Avalue, A., Budillon, F., Romeo, R., Caburlotto, A., Conforti, A., Di Martino, G., Pagliaroli, A., Magagnoli, M., Urgeles, R., Llopert, J., **Camerlenghi, A.**, 2019. Evaluation of disturbance induced on soft offshore sediments by two types of gravity piston coring techniques, *Marine Geology*, 417, art. no. 106005. <https://doi.org/10.1016/j.margeo.2019.106005>