



Curriculum Vitae del Prof. Paolo Favali

Laureato *cum laude* nel 1976 in Scienze geologiche nell'Università "La Sapienza" di Roma con specializzazione in geofisica. Ricercatore presso INGV dal 1979, Dirigente di Ricerca presso INGV dal 2000 al 2015. Associato di Ricerca all'INGV dal 2016. Ha oltre 40 anni di esperienza con campi principali di interesse in Rischi naturali (principalmente Sismico), Sismotettonica, Geodinamica, Geofisica Applicata, Geofisica marina e Scienze Ambientali e Marine. Coopera in progetti di ricerca e tecnologici con molte università, con Istituzioni scientifiche e Industrie sia italiane sia internazionali. In questi progetti sono stati sviluppati, realizzati e validati sistemi complessi multidisciplinari sottomarini e prototipi di sensori per utilizzi per acque basse e profonde per applicazioni scientifiche nei campi sopra riportati.

Membro del Consiglio d'Amministrazione dell'Istituto Nazionale di Geofisica dal 1987 al 2000.

Ha insegnato "Fisica della Terra Solida" e "Fisica Terrestre" presso università italiane fin dal 1994; Università della Basilicata (1994-1997), Università di Chieti (1998-2004) e Università "La Sapienza" di Roma (2005-2009). *Tutor* di molti studenti durante le loro tesi di laurea e di dottorato.

Convener fin dal 1996 in Conferenze Scientifiche Internazionali. Nel 1999 è stato Editor del volume edito da Elsevier intitolato "Science-Technology Synergy for research in marine environment: Challenges for the XXI Century" (Developments in Marine Technology, vol. 12). Nel 2004 è stato Editor del numero 46/8 di Environmental Geology edito da Springer. Nel 2006 è stato Editor del volume degli Annals of Geophysics "Special issue dedicated to Giuseppe Smriglio. From land networks to seafloor observatories" (vol. 49/2-3). Nel 2015 è stato Editor del volume stampato da parte di Springer-Praxis Books, Geophysical Series "Seafloor Observatories: A New Vision of the Earth from the Abyss", cui ha contribuito con numerosi capitoli (vedi lista pubblicazioni riportata sotto).

Membro (1999-2003) per l'European Science Foundation del Detailed Programme Group SEIZE (Seismogenic Zone Experiment) dell'Ocean Drilling Programme.

Dal 2005 è membro dello Steering Committee dell'iniziativa europea "The Deep-Sea Frontier".

Coordinatore dei seguenti progetti per lo sviluppo e l'uso scientifico di osservatori e reti multidisciplinari sottomarine e infrastrutture correlate:

GEOSTAR	3° Programma CE-MAST (1995-1998);
GEOSTAR 2	3° Programma CE-MAST (1999-2001);
TYDE	Accesso alle Infrastrutture di ricerca della CE (2000-2003);
ORION-GEOSTAR-3	5° Programma Quadro della CE (2002-2005);
EMSO-PP	FP7 Infrastrutture di Ricerca della Roadmap ESFRI (2008-2012);
MABEL	Programma Nazionale Ricerche in Antartide (PNRA) (2000-2009);
PEGASO	Regione Siciliana (Fondi Strutturali) (2005-2008);

EMSO-MIUR	MIUR Fondi FOE (2010-2015);
EMSO-Medit	MIUR (Fondi Strutturali) (2013-2016)
EMSODEV	H2020 <i>Infrastructure Implementation project</i> (2015-2019)
EMSO-Link	H2020 <i>Infrastructure Implementation project</i> (2017-2020).

Coordinatore (2007-2016) dell'Infrastruttura di Ricerca Europea EMSO (*European Multidisciplinary Seafloor and Water-Column Observatory*, www.emso.eu), inclusa nella prima *Roadmap* ESFRI (2006), nel PNR italiano (fin dal 2011-2013) e nella *Roadmap* italiana per le Infrastrutture di Ricerca. Considerata un'infrastruttura di successo, per cui è stata inclusa come “*Landmark*” nella *Roadmap* ESFRI 2016. EMSO è diventato un ERIC (*European Research Infrastructure Consortium*), cioè un'entità legale indipendente di carattere internazionale, nel 2016.

Fin dal 2000 è Esperto Valutatore di progetti a partire dal 5° Programma Quadro della Commissione Europea.

Rappresentante dell'INGV fin dal 1995 nell'*International Ocean Network* (ION), che ha lo scopo di promuovere attività per lo sviluppo di reti di monitoraggio marine, un'entità inter-associazione dell'*International Union of Geodesy and Geophysics* (IUGG). Dal 2014 è membro dell'*International Scientific Advisory Board* (ISAB) di *Ocean Networks Canada* (ONC).

In 2015 ha ricevuto l'“*Executive Certificate in Strategy and Innovation*” da parte del Massachusetts Institute of Technology (MIT), Sloan School of Management.

Responsabile dal 2001 al 2014 dell'Unità Marina dell'INGV RIDGE (Ricerche InterDisciplinari GEomarine). Ha partecipato e partecipa in molti progetti nazionali e internazionali (ad es.: EC-ASSEM, GNDT-SN1, EC-ESONET-CA, FIRB-APLABES, DPC-V2, DPC-V5, DPC-S2, EC-MOMARNET, EC-KM3NET DS, EC-NEAREST, EC-NERIES, EC-TRANSFER, EC-ESONET-NoE, EC-HYPOX, EC-DS3F, EC-GENESI-DEC, FIRB-SMO, MIUR-RITMARE, EC-SCIDIP-ES, EC-COOPEUS, EC-ENVRI, POR-MONSOON, FESR-MOSSAG, EC-MARSITE, EC-MEDSUV, EC-FIXO3, EC-INDIGO, EC-ENVRIPLUS, EC-COOP+, EC-DANUBIUS-PP).

Ha pubblicato 150 pubblicazioni in riviste internazionali e italiane, e atti (vedere la lista allegata delle sole pubblicazioni su riviste internazionali a partire dal 1998).

Prof. Paolo Favali

Pubblicazioni in Riviste Internazionali (dal 1998)

- 1) L. Beranzoli, A. De Santis, G. Etiope, P. Favali, F. Frugoni, G. Smriglio, F. Gasparoni, A. Marigo, 1998. GEOSTAR: A GEophysical and Oceanographic STation for Abyssal Research.. *Phys. Earth Planet. Int.*, 108:175-183, doi:10.1016/S0031-9201(98)00094-6.
- 2) P. Favali, G. Smriglio, L. Beranzoli, T. Braun, M. Calcara, G. Etiope, F. Frugoni, C. Millot, J.-L. Fuda, M.P. Marani, F. Gamberi, J.V. Dobson, N. Marshall, 1998. GEOSTAR-scientific goals of the project and results of the first test phase, *IEEE-OCEANS '98 Conference Proceedings*, vol. 2, 1088-1090, doi: 10.1109/OCEANS.1998.724404.
- 3) G. Etiope, P. Beneduce, M. Calcara, P. Favali, F. Frugoni, M. Schiattarella, G. Smriglio, 1999. Structural pattern and CO₂-CH₄ degassing of the Ustica Island, Southern Tyrrhenian Basin, *J. Volc. Geoth. Res.*, 88:291-304.
- 4) H.W. Gerber, P. Favali, G. Smriglio, F. Gasparoni, J. Marvaldi, J.-M. Coudeville, 1999. GEOSTAR benthic observatory: Technological results, *J. Acoust. Soc. Am.*, 105/2:1169, ISSN: 0001-4966, doi: <http://dx.doi.org/10.1121/1.425545>.
- 5) R.D. Hyndman, J. Ashi, K. Brown, P. Favali, P. Harjes, P. Huchon, M. Kastner, S. Kodaira, C. Moore, S. Peacock, L. Ruff, E. Silver, M. Zoback, 1999. Seismogenic Zone Deep Drilling and Measurement. Report of the Detailed Planning Group, *JOIDES Journal*, 25(2):20-22.
- 6) M. Agate, L. Beranzoli, T. Braun, R. Catalano, P. Favali, F. Frugoni, F. Pepe, G. Smriglio, A. Sulli, 2000. The 1998 offshore NW Sicily earthquakes in the tectonic framework of the southern border of the Tyrrhenian Sea, *Mem. Soc. Geol. It.*, 55:103-114.
- 7) L. Beranzoli, T. Braun, M. Calcara, D. Calore, R. Campaci, J.-M. Coudeville, A. De Santis, G. Etiope, P. Favali, F. Frugoni, J.-L. Fuda, F. Gamberi, F. Gasparoni, H.W. Gerber, M.P. Marani, J. Marvaldi, C. Millot, C. Montuori, P. Palangio, G. Romeo, G. Smriglio, 2000. European Seafloor Observatory offers new possibilities for deep-sea study, *EOS, Trans. AGU*, 81,5:45-49.
- 8) L. Beranzoli, T. Braun, M. Calcara, A. De Santis, D. Di Mauro, G. Etiope, P. Favali, F. Frugoni, C. Montuori, P. Palangio, G. Romeo, G. Smriglio, F. Gamberi, M.P. Marani, J.-L. Fuda, C. Millot, 2000. GEOSTAR, an observatory for deep-sea geophysical and oceanographic researches: characteristics, first scientific mission and future activity, *Mem. Soc. Geol. It.*, 55:491-497.
- 9) R. Console, R. Di Giovambattista, A. Di Sanza, P. Favali, G. Smriglio, 2000. The role of constraints on joint hypocentre determination in seismotectonic studies. *Geophys. J. Int.*, 143:129-141.
- 10) G. Etiope, F. Italiano, J.-L. Fuda, P. Favali, F. Frugoni, M. Calcara, G. Smriglio., F. Gamberi, M.P. Marani, 2000. Deep Submarine Gas Vents in the Aeolian Offshore, *Physics and Chemistry of the Earth*, 25:25-28.
- 11) A. Argnani, F. Frugoni, R. Cosi, M. Ligi, P. Favali, 2001. Tectonics and Seismicity of the Apulian Ridge south of Salento Peninsula (Southern Italy), *Annali di Geofisica*, 44:527-540.
- 12) M. Calcara, L. Beranzoli, T. Braun, D. Calore, A. De Santis, G. Etiope, P. Favali, F. Frugoni, F. Gasparoni, C. Montuori, G. Smriglio, 2001. MABEL: a Multidisciplinary Benthic Laboratory for Deep-sea, Long-term monitoring in the Antarctica, *Terra Antarctica*, 8:115-118.
- 13) F. Italiano, R. Favara, G. Etiope, P. Favali, 2001. Submarine emissions of greenhouse gases from hydrothermal and sedimentary areas. In: Cidu (ed.) *Water-Rock interaction*, Swets, Zeitlinger: 863-866.

- 14) L. Beranzoli, P. Favali, G. Smriglio (ed.), 2002. Science-Technology Synergy for Research in the Marine Environment: Challenges for the XXI Century, *Developments in Marine Technology*, 12, pp.268, Elsevier, Amsterdam.
- 15) L. Beranzoli, T. Braun, M. Calcara, D. Calore, R. Campaci, J.-M. Coudeville, A. De Santis, D. Di Mauro, G. Etiope, P. Favali, F. Frugoni, J.-L. Fuda, F. Gamberi, F. Gasparoni, H.W. Gerber, M.P. Marani, J. Marvaldi, C. Millot, C. Montuori, G. Romeo, P. Palangio, G. Smriglio, 2002. GEOSTAR: Geophysical and oceanographic station for abyssal research, *Elsevier Oceanography Series*, 66:307-315.
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- 17) T. Dahm, M. Thorwart, E.R. Flueh, T. Braun, H. Herber, P. Favali, L. Beranzoli, G. D'Anna, F. Frugoni, G. Smriglio, 2002. Ocean Bottom Seismometers deployed in Tyrrhenian Sea. *EOS, Trans. AGU*, 83, 29:309-315.
- 18) G. Etiope, P. Carnevale, F. Gasparoni, M. Calcara, P. Favali, G. Smriglio, 2002. Offshore hydrocarbon leakage: hazard and monitoring. In: L. Beranzoli, P. Favali, G. Smriglio (ed.) *Science-Technology Synergy for Research in the Marine Environment: Challenges for the XXI Century, Developments in Marine Technology*, 12:217-228, Elsevier, Amsterdam.
- 19) G. Etiope, F. Italiano, P. Favali, G. Smriglio, 2002. Soil degassing at the Ustica Island: comparison between 1997 and 1999 surveys. *Geofisica International*, 41:217-221.
- 20) P. Favali, G. Smriglio, L. Beranzoli, T. Braun, M. Calcara, G. D'Anna, A. De Santis, D. Di Mauro, G. Etiope, F. Frugoni, V. Iafolla, S. Monna, C. Montuori, S. Nozzoli, P. Palangio, G. Romeo, 2002. Towards a permanent deep sea observatory: the GEOSTAR European experiment. In: L. Beranzoli, P. Favali, G. Smriglio (ed.), *Science-Technology Synergy for Research in the Marine Environment: Challenges for the XXI Century, Developments in Marine Technology*, 12:111-120, Elsevier, Amsterdam.
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- 22) G. Ollier, P. Favali, G. Smriglio, F. Gasparoni, 2002. Perspectives and challenges in marine research. In: L. Beranzoli, P. Favali, G. Smriglio (ed.), *Science-Technology Synergy for Research in the Marine Environment: Challenges for the XXI Century, Developments in Marine Technology*, 12:3-9, Elsevier, Amsterdam.
- 23) L. Beranzoli, T. Braun, M. Calcara, P. Casale, A. De Santis, G. D'Anna, D. Di Mauro, G. Etiope, P. Favali, J.-L. Fuda, F. Frugoni, F. Gamberi, M.P. Marani, C. Millot, C. Montuori, G. Smriglio, 2003. Mission results from the first GEOSTAR observatory (Adriatic Sea, 1998). *Earth Planets Space*, 56:361-373.
- 24) C.W. Holland, G. Etiope, A.V. Milkov, E. Michelozzi, P. Favali, 2003. Mud volcanoes discovered offshore Sicily. *Marine Geology*, 199:1-6.
- 25) S. Monna, L. Filippi, L. Beranzoli, P. Favali, 2003. Rock properties of the upper-crust in Central Apennines (Italy) derived from high-resolution 3-D tomography. *Geophys. Res. Lett.*, 30/7, 1408, 61:1-4, doi:10.1029/2002GL016780.
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- 27) L. Beranzoli, D. Calore, P. Favali, J. Marvaldi, M. Nicot, 2004. ORION-GEOSTAR-3: A Prototype of Seafloor Network of Observatories for Geophysical, Oceanographic and Environmental Monitoring, *ISOPE-Int. Soc.*

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- 28) S. Cenedese, M. Calcara, G. D'Anna, K.-U. Evers, P. Favali, F. Gasparoni, 2004. MABEL-The First Seafloor Observatory for Multidisciplinary Long-term Monitoring in Polar Environment, ISOPE-Int. Soc. Offshore and Polar Engineers, Proc. 14th Int. Offshore and Polar Engineering Conf., Toulon, May 23-28, ISBN: 1-880653-62-1, ISSN:1098-6189.
- 29) G. Etiopè, P. Favali (ed.), 2004. GEM-Geologic Emissions of Methane from lands and seafloor: mud volcanoes and observing systems, *Environmental Geology*, 46/8:987-1135, doi: 10.1007/s00254-004-1082-4.
- 30) G. Etiopè, P. Favali, 2004. Introduction Geologic Emissions of Methane from lands and seafloor: mud volcanoes and observing systems. In: G. Etiopè, P. Favali (ed.), GEM-Geologic Emissions of Methane from lands and seafloor: mud volcanoes and observing systems, *Environmental Geology*, 46/8:987, doi:10.1007/s00254-004-1082-4.
- 31) P. Favali, L. Beranzoli, M. Calcara, G. D'Anna, G. Etiopè, F. Frugoni, N. Lo Bue, G. Marinaro, S. Monna, C. Montuori, T. Sgroi, F. Gasparoni, S. Cenedese, F. Furlan, G. Ferentinos, G. Papatheodorou, D. Christodoulou, J. Blandin, J. Marvaldi, J.-F. Rolin, G. Clauss, H.W. Gerber, J.-M. Coudeville, M. Nicot, E.R. Flueh, F. Gamberi, M.P. Marani, G. Neri, 2004. Single-frame multiparameter platforms for seafloor geophysical and environmental observations: projects and missions from GEOSTAR to ORION, OCEANS '04. MTTs/IEEE TECHNO-OCEAN '04, vol. 4, 2000-2007, doi: 10.1109/OCEANS.2004.1406450.
- 32) P. Favali, L. Beranzoli, A. Maramai, 2004. Review of the Tyrrhenian Sea seismicity: how much is still to be unknown?, in: M.P. Marani, F. Gamberi, E. Bonatti (Ed.), From seafloor to deep mantle: architecture of the Tyrrhenian back-arc basin, *Mem. Descr. C. Geol. d'It.*, LXIV:57-70.
- 33) G. Marinaro, G. Etiopè, F. Gasparoni, D. Calore, S. Cenedese, F. Furlan, M. Masson, P. Favali, J. Blandin, 2004. GMM-a gas monitoring module for long-term detection of methane leakage from the seafloor, in: G. Etiopè, P. Favali (Ed.), GEM-Geologic Emissions of Methane from lands and seafloor: mud volcanoes and observing systems, *Environmental Geology*, 46/8:1053-1058, doi:10.1007/s00254-004-1092-2.
- 34) I.G. Priede, R. Person, P. Favali, 2004. European Seafloor Observatory Network, *Sea Technology*, 46, 10:45-49, ISSN:0093-3651.
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- 36) L. Beranzoli, P. Favali, 2005. SN-1 - The First Italian Seafloor Observatory for Seismic Monitoring. In: M. Maugeri (ed.), *Seismic Prevention of Damage: A Case Study in a Mediterranean City. Advances in earthquake engineering*, 14:367-376, WIT Press, Southampton, (UK) & Boston (USA), ISBN: 1845640047.
- 37) G. Etiopè, G. Papatheodorou, D. Christodoulou, P. Favali, G. Ferentinos, 2005. Gas hazard induced by methane and hydrogen sulfide seepage in the NW Peloponnesus petroliferous basin (Greece), *Terrestrial, Atmospheric & Oceanic Sciences*, 16, 4:897-908.
- 38) S. Monna, F. Frugoni, C. Montuori, L. Beranzoli, P. Favali, 2005. High quality seismological recordings from the SN-1 deep seafloor observatory in the Mt. Etna region, *Geophys. Res. Lett.*, 32, doi:10.1029/2004GL021975.
- 39) J.-F. Rolin, J. Blandin, V. Lykousis, J.M. Strout, G. Etiopè, P. Favali, P. Briole, V. Ballu, G. Papatheodorou, G. Ferentinos, D. Cathy, M. Masson, 2005. Common issues between cabled and non cabled observatories in ASSEM project, OCEANS 2005 - Europe, vol. 2, 872-877, doi: 10.1109/OCEANSE.2005.1513171.

- 40) G. Barberi, L. Beranzoli, P. Favali, G. Neri, T. Sgroi, 2006. Seismic location improvements from an OBS/H temporary network in Southern Tyrrhenian Sea, *Ann. Geophys.*, 49, 2/3:739-749.
- 41) G. Etiope, P. Favali, J.-L. Fuda, F. Italiano, M. Launbenstein, C. Millot, W. Plastino, 2006. The Benthic Boundary Layer: geochemical and oceanographic data from the GEOSTAR-2 observatory, *Ann. Geophys.*, 49, 2/3:705-714.
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