

PERSONAL INFORMATION

Mattia Barsanti



📍 Centro Ricerche Ambiente Marino S. Teresa - C.P. 224 - Pozzuolo di Lerici - 19100 La Spezia

☎ 0187 978 292

✉ [mattia.barsanti@enea.it](mailto:mattia.barsanti@enea.it)

Sex M | Date of birth 21/03/1965 | Nationality Italian

POSITION HELD

Permanent employee since 23/12/2010 as Researcher (Level III) at the Biodiversity and Ecosystem Services Laboratory (BES), Division for the Protection and Enhancement of Land and Natural Capital (PROTER), Department for Sustainability of Production and Territorial Systems (SSPT), located at the ENEA S. Teresa Marine Environment Research Centre (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), Pozzuolo di Lerici (La Spezia, Italy).

WORK EXPERIENCE

from 03/06/2003 to 02/12/2010	Awarded a research grant entitled: "Studies and analyses of coastal geomorphology, environmental cartography and geographic information systems" at the ENEA S. Teresa Marine Environment Research Centre (La Spezia, Italy).
Employer:	ENEA, Lungotevere Thaon di Revel, 76 - 00196 Rome, Italy.
Main duties:	Study of the petrographic compositional features of sediments from Italian coasts and seas, and analysis of the petrographic nature of sediment supply and material drift in coastal areas. Design and development of a geographic information system integrating current and historical knowledge. Study of the dispersion of the fine sediment fraction using radioactive tracers.
Business or sector:	Sedimentology and sedimentary petrography.
from 15/01/2001 to 26/05/2003	Awarded a scholarship entitled: "Definition of coastal physiographic units using petrographic methods and related computer processing" at the Department of Earth Sciences, University of Parma. The research activity was carried out at the ENEA S. Teresa Marine Environment Research Centre (La Spezia, Italy). Tutor: Prof. Renzo Valloni.
Employer:	University of Parma, via Università, 12 - 43121 Parma, Italy.
Main duties:	Nationwide identification of coastal sedimentary units, including "Sedimentary Petrographic Provinces", "Natural Physiographic Units" and "Littoral Cells". Creation of a nationwide Geographic Information System.
Business or sector:	Sedimentology and sedimentary petrography.
from 01/07/1998 to 31/12/2000	Permanent employee as application consultant at Micronix Computer S.p.A., Montecatini Terme (PT), Italy.
Employer:	Micronix Computer S.p.A., Via dei Colombi, 2 - 51016 Montecatini Terme (PT), Italy.
Main duties:	Development of business management software in the AS/400 (IBM) environment.
Business or sector:	Technology and information technology.
from 01/02/1998 to 30/06/1998	Internship. Palaeomagnetic analyses on rock samples from Vesuvius, within a research project of the Institute of Geochronology and Isotopic Geochemistry (CNR), Pisa. The

	analyses were carried out at the Institute of Geomagnetism of the University of Paris 6 and CNRS (Avenue de Neptune 4 - 94107 Saint Maur des Fossés Cedex), in collaboration with Prof. Jean-Claude Tanguy.
Employer:	Former Institute of Geochronology and Isotopic Geochemistry (CNR), now Institute of Geosciences and Earth Resources (CNR), Via Giuseppe Moruzzi, 1 - 56124 Pisa, Italy.
Main duties:	Palaeomagnetic analyses of Vesuvius (NA) lava samples. Dating of historical lava flows.
Business or sector:	Volcanology. Palaeomagnetism.
from 01/11/1997 to 30/04/1998	Internship. Studies of the coastal marine environment at the ENEA S. Teresa Marine Environment Research Centre (La Spezia, Italy), in collaboration with Dr Ornella Ferretti (ENEA) and Eng. Roberto Meloni (CNR-IOF).
Employer:	ENEA, Lungotevere Thaon di Revel, 76 - 00196 Rome, Italy.
Main duties:	Sedimentological studies addressing coastal-dynamics issues. The work included seabed topographic surveys and sampling on the continental shelf. Textural analyses of samples and statistical data processing were carried out.
Business or sector:	Sedimentology.

EDUCATION AND TRAINING

from 01/11/2004 to 25/03/2008	PhD in Earth Sciences, 19th cycle. Doctoral thesis title: "Composition and transport of sands along the Italian marine coasts". Coordinator: Prof. Mario Tribaudino; Tutor: Prof. Renzo Valloni.
Institution:	University of Parma, Department of Earth Sciences.
Main subjects covered:	Petrographic and grain-size study of 138 coastal sediment samples along the Italian coasts. Subsequent identification of Littoral Petrographic Provinces and Littoral Cells for the entire Italian coastline.
from 01/11/1987 to 22/11/1996	Degree thesis in Geological Sciences. Thesis title: "He isotopic composition in olivines and pyroxenes from selected products of Vesuvius and the Phlegraean Fields". Final grade: 105/110. Supervisor: Prof. Franco Barberi.
Institution:	University of Pisa.
Main subjects covered:	Isotope geochemistry. Analysis and interpretation of mass-spectrometry data for noble gases in fluid inclusions of mafic minerals, such as olivines and pyroxenes, in pyroclastic products from Vesuvius and the Phlegraean Fields.

PERSONAL SKILLS

Mother tongue	Italian				
Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	C1	C1	C1

Communication skills Good interpersonal skills gained through several projects and teamwork activities during my experience at ENEA and in other professional contexts.

Organisational / managerial skills Good organisational and managerial skills developed through several work experiences, the most recent of which include:

- ENEA scientific coordinator for an Executive Act of the Memorandum of Understanding

between the Italian Ministry for the Ecological Transition (MiTE) and ENEA for activities concerning “Technical assistance to the project - A national marine spatial plan for Vanuatu - including a network of marine protected areas”. Project duration: April 2019 - October 2022. Total amount paid by the client: €112,840.00. Decision no. 64/2019/SSPT-PROTES.

- ENEA scientific coordinator for the execution of analyses and interpretation of gamma spectrometry results within the RECOMARES project (RECONstrucción de las comunidades de MAR Profundo en Márgenes Continentales Ibéricos en las últimas décadas/siglos). Duration: May - October 2021. Total project cost: €4,995.00. Decision no. 119/2021/SSPT-PROTER.
- ENEA scientific coordinator for the collaboration agreement between ENEA and the IAEA (International Atomic Energy Agency) within the IAEA coordinated research project: “Study of Temporal Trends of Pollution in Selected Coastal Areas by the Application of Isotopic and Nuclear Tools” (CRPK41016). Project period: 20 September 2016 - 20 September 2020. Funding: reimbursement of mission expenses. Decision no. 147/2016/SSPT-PROTER.
- ENEA scientific coordinator for a contract between ENEA and IAMC-CNR within an environmental study on the health status of the marine environment in the area influenced by the SOLVAY CHIMICA ITALIA S.p.A. plant in Rosignano Marittimo (LI). Duration: April 2016 - January 2017. Total project cost: €20,000. Decision no. 58/2016/SSPT.
- ENEA scientific coordinator within a technical-scientific collaboration agreement for the geological mapping of Italian seas on behalf of ISPRA, within the European project “EMODnet Geology 3”. Funding: €5,000. Decision no. 37/2018 SSPT-PROTER. Period: 22/10/2018 - 27/03/2019.

Job-related skills

Marine geology. Study of sedimentary processes in coastal and deep-sea environments using natural and artificial radioactive tracers. Study of radionuclide activity profiles along seabed sediment cores. Dating of sediment cores.  
 Analysis of remotely sensed images using modern processing techniques for multispectral and hyperspectral data for the study of land cover, with particular focus on the identification of marine-coastal habitats.  
 Development of Geographic Information Systems (GIS).  
 Study of the petrographic compositional features of coastal sediments and analysis of the petrographic nature of sediment inputs and material drift in coastal areas.

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Advanced user	Advanced user	Advanced user	Advanced user	Advanced user

Excellent computer skills for Windows, Mac OS and Linux operating systems.  
 Excellent knowledge of Microsoft Office and LibreOffice suites.  
 Excellent knowledge of various software packages for raster and vector image analysis.  
 Good knowledge of satellite image analysis software such as eCognition (Trimble Geospatial) and ENVI (L3Harris Geospatial).  
 Basic knowledge of programming in HTML, PHP and SQL, and of computer networking technology and the TCP/IP protocol.  
 Web database management (Apache-PHP-MySQL).

Other skills

Preparation and analysis of biotic and abiotic samples for gamma spectrometry and interpretation of data (sedimentation rates and sediment bioturbation coefficient).  
 Preparation and grain-size analyses of sediment samples using sieves and a laser diffraction analyser.  
 Qualitative and quantitative petrographic analyses using polarised-light petrographic microscopy.

Study of sediment dynamics on the continental shelf for both sandy and fine sediment fractions.

Driving licence

B

#### ADDITIONAL INFORMATION

---

Postgraduate training

- “Information and training course for workers exposed to risks deriving from ionising radiation”. ENEA videoconference course with final assessment passed. ENEA, S. Teresa Centre, 3 November 2021.
- “Training course for workers - General Part”. Delivered through the ENEA e-learning platform, with the required learning assessments passed. Course provider: Ing. Antonio Mori, S. Teresa Centre. Certificate identification no. 00574\_2014\_STE. Duration: 4 hours.
- “Introduction to geostatistics”. Course at the Department of Earth and Geoenvironmental Sciences, University of Bologna. Course coordinator: Prof. William Cavazza. Lecturer: Prof. Antonella Bucciatti. Bologna, 6-9 March 2006.
- “Scanning electron microscopy (SEM). PHILIPS SEM 515.” Course at the ENEA S. Teresa Marine Environment Research Centre. Lecturer: Ing. Mariani. La Spezia, 8-9 November 2005.
- “Multivariate Statistics for Geological Sciences”. Course at the Department of Earth Sciences, University of Parma. Course coordinator: Prof. Maria Sgavetti. Lecturer: Dr Davide Mana. Parma, 28-30 October 2005.
- “GIS Laboratory (Geographic Information System): concepts and applications of numerical cartography and geographic information systems.” Course at the Politecnico di Milano, Como Campus. Course coordinator: Prof. Maria Brovelli. Various lecturers. Como, 18-21 February 2002.
- “Advanced course in Coastal Sciences”. Course organised by the University of Parma in collaboration with the ENEA S. Teresa Marine Environment Research Centre. Course coordinator: Prof. Renzo Valloni. Various lecturers. La Spezia, 1-19 October 2001.

International and national scientific publications

- Peirano, A., **Barsanti, M.**, Delbono, I., Candigliota, E., Cocito, S., Hokafonu, T., Immordino, F., Moretti, L., Matoto, A.L. (2023) Baseline Assessment of Ecological Quality Index (EQI) of the Marine Coastal Habitats of Tonga Archipelago: Application for Management of Remote Regions in the Pacific. *Remote Sens.*, 15, 909.
- Gherardi, F., **Barsanti, M.**, Principe, C., Magro, G. (2022). Helium isotopes in Plinian and inter-Plinian volcanic products of Vesuvius, Italy. *Frontiers in Earth Science*, 10.
- Armiento, G., **Barsanti, M.**, Caprioli, R., Chiavarini, S., Conte, F., Crovato, C., de Cassan, M., Delbono, I., Montereali, M. R., Nardi, E., Parrella, L., Pezza, M., Proposito, M., Rimauro, J., Schirone, A., Spaziani, F. (2022). Heavy metal background levels and pollution temporal trend assessment within the marine sediments facing a brownfield area (Gulf of Pozzuoli, Southern Italy). *Environmental Monitoring and Assessment*, 194 (11), 814.
- Cartes, J. E., Díaz-Viñolas, D., Schirone, A., Lombarte, A., **Barsanti, M.**, Delbono, I., Salas, C., Gofas, S., Serrano, A., & Santos-Echeandía, J. (2022). How the reconstruction of faunal communities in a marine protected area (Columbretes Reserve, western Mediterranean) evidence human and natural impacts on fauna. *Ecological Indicators*, 142, 109209.
- Oliveri, E., Ausili, A., **Barsanti, M.**, Conte, F., Delbono, I., Del Core, M., Giaramita, L., Passaro, S., Placenti, F., Quinci, E. M., Romano, E., Sabatino, N., Schirone, A., Tranchida, G., & Sprovieri, M. (2022). Interferences between natural and anthropic hazards in marine-coastal environments: Assessing transport from

- land to the offshore systems in the crotone basin (Ionian Sea). *Estuarine, Coastal and Shelf Science*, 271 (June 2021), 107854.
- Schirone, A., Rozmaric, **M.**, **Barsanti**, M., Raiteri, G., Sanchez Cabeza, J. A., García-Tenorio, R., & Osvath, I. (2022). Assessment of measurement accuracy in <sup>210</sup>Pb dating sediment methods. *Quaternary Geochronology*, 101255.
  - Wanjeri, V. W. O., Okuku, E. O., **Barsanti**, M., Schirone, A., Delbono, I., & Owato, G. (2021). Baseline radionuclide and heavy metal concentrations in sediments of Sabaki River estuary (Kenya, Indian Ocean). *Marine Pollution Bulletin*, 164 (November 2020), 112033.
  - Garcia-Tenorio, R., Rozmaric, M., Harms, A., De Oliveira Godoy, M., **Barsanti**, M., Schirone, A., Ruiz-fernández, A.C., Sanchez-cabeza, J.A., Mcginnity, P., Fajak, M., Eriksson, M., Hatje, V., Laissaoui, A., Nguyen, H.Q., Okuku, E., Al-Rousan, S.A., Yii, M.W., Heijnis, H., Osvath, I., 2020. From radiometry to chronology of a marine sediment core: A interlaboratory comparison exercise organised by the IAEA Pb dating. *Mar. Pollut. Bull.* 159, 1–10.
  - **Barsanti**, M., Garcia-Tenorio, R., Schirone, A., Rozmaric, M., Ruiz-Fernández, A.C., Sanchez-Cabeza, J.A., Delbono, I., Conte, F., De Oliveira Godoy, J.M., Heijnis, H., Eriksson, M., Hatje, V., Laissaoui, A., Nguyen, H.Q., Okuku, E., Al-Rousan, S.A., Uddin, S., Yii, M.W., Osvath, I., 2020. Challenges and limitations of the <sup>210</sup>Pb sediment dating method: Results from an IAEA modelling interlaboratory comparison exercise. *Quat. Geochronol.* 59, 1–9.
  - Bonsignore, M., Salvagio, D., **Barsanti**, M., Conte, F., Delbono, I., Horvat, M., Maria, E., Schirone, A., Shlyapnikov, Y., Sprovieri, M., 2020. Mercury isotope signatures in sediments and marine organisms as tracers of historical industrial pollution. *Chemosphere* 258, 13.
  - Danovaro, R., Fanelli, E., Canals, M., Ciuffardi, T., Fabri, M.C., Taviani, M., Argyrou, M., Azzurro, E., Bianchelli, S., Cantafaro, A., Carugati, L., Corinaldesi, C., de Haan, W.P., Dell'Anno, A., Evans, J., Foglini, F., Galil, B., Gianni, M., Goren, M., Greco, S., Grimalt, J., Güell-Bujons, Q., Jadaud, A., Knittweis, L., Lopez, J.L., Sanchez-Vidal, A., Schembri, P.J., Snelgrove, P., Vaz, S., Angeletti, L., **Barsanti**, M., Borg, J.A., Bosso, M., Brind'Amour, A., Castellán, G., Conte, F., Delbono, I., Galgani, F., Morgana, G., Prato, S., Schirone, A., Soldevila, E., 2020. Towards a marine strategy for the deep Mediterranean Sea: Analysis of current ecological status. *Mar. Policy* 112.
  - Immordino, F., **Barsanti**, M., Candigliota, E., Cocito, S., Delbono, I., Peirano, A., 2019. Application of Sentinel-2 Multispectral Data for Habitat Mapping of Pacific Islands : Palau Republic (Micronesia, Pacific Ocean ). *J. Mar. Sci. Eng.* 316, 7.
  - Rui, L., Rebesco, M., Casamor, J.L., Laberg, J.S., Rydningen, T.A., Caburlotto, A., Forwick, M., Urgeles, R., Accettella, D., Lucchi, R.G., Delbono, I., **Barsanti**, M., Demarte, M., Ivaldi, R., 2019. Geomorphology and development of a high-latitude channel system: the INBIS channel case (NW Barents Sea, Arctic). *Arktos* 0, 1–15.
  - Tamburrino, S., Passaro, S., **Barsanti**, M., Schirone, A., Delbono, I., Conte, F., Delfanti, R., Bonsignore, M., Del Core, M., Gherardi, S., Sprovieri, M., 2019. Pathways of inorganic and organic contaminants from land to deep sea: The case study of the Gulf of Cagliari (W Tyrrhenian Sea). *Sci. Total Environ.* 647, 334–341.
  - Cartes J.E., Schirone A., **Barsanti** M., Delbono I., Martínez-Aliaga A., Lombarte

- A., 2017. Recent reconstruction of deep-water macrofaunal communities recorded in Continental Margin sediments in the Balearic Basin, Deep Sea Research Part I: Oceanographic Research Papers, 125, pp 52-64.
- Botwe B.O., Schirone A., Delbono I., **Barsanti** I., Delfanti I., Kelderman P., Nyarko E., Lens P.N.L., 2017. Radioactivity concentrations and their radiological significance in sediments of the Tema Harbour (Greater Accra, Ghana). *Journal of Radiation Research and Applied Sciences*, 10, pp. 63-71.
  - Botwe B.O., Abril J.M., Schirone A., **Barsanti** M., Delbono I., Delfanti R., Nyarko E., Lens P.N.L. (2017) Settling fluxes and sediment accumulation rates by the combined use of sediment traps and sediment cores in Tema Harbour (Ghana). *Science of the Total Environment*, 609, pp. 1114-1125. DOI: 10.1016/j.scitotenv.2017.07.139
  - Delbono, I., **Barsanti**, M., Schirone, A., Conte, F., Delfanti, R., 2016. <sup>210</sup>Pb mass accumulation rates in the depositional area of the Magra River (Mediterranean Sea, Italy). *Cont. Shelf Res.* 124, 35–48.
  - **Barsanti** M., Conte F., Delbono I., Iurlaro G., Battisti P., Bortoluzzi S., Lorenzelli R., Salvi S., Zicari S., Papucci C., Delfanti R., 2012. *Environmental radioactivity analyses in Italy following the Fukushima Dai-ichi nuclear accident*. *J. Environ. Radioactivity*, 114, 126-130.
  - Nyarko E., Botwe B.O., Ansong J.E., Delfanti R., **Barsanti** M., Schirone A., Delbono I. 2011. *Determination of <sup>210</sup>Pb, <sup>226</sup>Ra and <sup>137</sup>Cs in Beach Sands along the Coastline of Ghana*. *Afr. J. Environ. Pollut. Health* 9 (2): 17-23.
  - **Barsanti** M., Delbono I., Schirone A., Salvi S., Langone L., Miserocchi S., Delfanti R., 2011. *Sediment reworking rates in deep sediments of the Mediterranean Sea*. *Science of the Total Environment*, 409, pp.2959-2970.
  - Alonso-Hernandez C., Conte F., Misic C., **Barsanti** M., Gomez-Batista M., Diaz-Asencio M., Covazzi-Harriague A., Pannacciulli F.G., 2011. *An overview of the Gulf of Batabanó (Cuba): environmental features as revealed by surface sediment characterization*. *Continental Shelf Research* 31, pp.749–757.
  - Cupido R., Cocito S., **Barsanti** M., Sgorbini S., Peirano A., Santangelo G., 2009. *Unexpected long-term population dynamics in a canopy-forming gorgonian coral following mass mortality*. *Mar Ecol Prog Ser* 394, pp. 195-200.
  - **Barsanti** M., Delbono I., Ferretti O., Peirano A., Bianchi C.N., Morri C., 2007. *Measuring change of Mediterranean coastal biodiversity: diachronic mapping of the meadow of the seagrass *Cymodocea nodosa* (Ucria) Ascherson in the Gulf of Tigullio (Ligurian Sea, NW Mediterranean)*. *Hydrobiologia*, 580-1, pp. 35-41.
  - Pecci L., **Barsanti** M., Delbono I., Ferretti O., Furia S., Valloni R., 2002. *Sistema informatico per la raccolta dei dati bibliografici dell'ambiente marino - costiero*. *Studi costieri. Dinamica e difesa dei litorali – Gestione integrata della fascia costiera*, N. 5 2002, pp. 3-7.
  - **Barsanti** M., Candigliota E., Delbono I., Immordino F., Moretti L., Peirano A. *Copernicus Sentinel-2: habitat mapping per un uso sostenibile dell'ambiente marino nei paesi in via di sviluppo (Oceano Pacifico)*. ENEA, AIT, Copernicus Relays. 13° Workshop tematico di Telerilevamento. Telerilevamento Applicato Ai Processi di Conoscenza e Gestione del Territorio. Bologna, 22-23 settembre 2022.
  - **Barsanti** M., Delbono I., Cocito S. *Tecnologie satellitari per l'Habitat Mapping nei*

Conference proceedings, technical reports, books and outreach

- Paesi in Via di Sviluppo*. Energia, Ambiente e Innovazione, Rivista bimestrale dell'ENEA n. 3 settembre - dicembre 2021.
- **Barsanti M.**, Delbono I., Schirone A., Conte F., Delfanti R., Del Core M., Tamburrino S., Sprovieri M. (2015). *210Pb as tracer of contaminant transport in a complex canyon-channel system (Gulf of Cagliari, South Sardinia, Western Mediterranean Sea)*. Proceedings of the 3<sup>rd</sup> International Conference on Po and radioactive Pb Isotopes, 11-14 October 2015, Kusadasi, Turkey, pp 34-39.
  - Cocito S., Delbono I., **Barsanti M.**, Di Nallo G., Lombardi C., Peirano A. (2015). *Underwater itineraries at Egadi Islands: Marine biodiversity protection through actions for sustainable tourism*. Energia, Ambiente e Innovazione. Rivista bimestrale dell'ENEA. N°4, Luglio-Agosto 2015. Pp. 69-75. DOI 10.12910/EAI2015-072
  - Schirone A., Herut B., Delbono I., **Barsanti M.**, Delfanti R. (2014). *Sedimentation and mixing rates in the Levantine Sea*. PERSEUS 2nd Scientific Workshop – Marrakesh, 2-4 December, 2014. Book of Abstracts. ISBN: 978-96-9798-07-5.
  - Cocito S., **Barsanti M.**, Delbono I., Lombardi C., Peirano A. (2014) *Itinerari sommersi nell'Isola di Marettimo e Levanzo, Isole Egadi*. RES Edizioni, Sarzana (SP), 72 pp.
  - R. Delfanti, M. Pollino, V. Rosato, L. La Porta, M. D'Isidoro, S. Sandri, M. Guarracino, E. Napolitano, M. **Barsanti**, V. Artale, P. Agostini, I. Delbono, F. De Rosa, A. di Sarra, E. Fantuzzi, R. Lorenzelli, E. Negrenti, P.M. Ruti, F. Padoani, G. Zanini (2013). *A Risk Analysis and Decision Support System for Nuclear Accidents in the Mediterranean Area*. Energia, Ambiente e Innovazione, Rivista bimestrale dell'ENEA n. 3-4 maggio-agosto 2013.
  - T. Ciuffardi, A. Giuliani, M. **Barsanti**, A. Bordone, G. Cerrati, G. Di Nallo, P. Picco (2013). *Quarant'anni di dati oceanografici a cura del centro di ricerca ENEA S.Teresa: il quadro del Golfo di LA Spezia – Distribuzione storica dei dati dal 1973 al 2013*. Rapporto Tecnico ENEA, pp. 1-33. (RT/2013/19/ENEA).
  - Cocito S., **Barsanti M.**, Delbono I., Lombardi C., Peirano A. (2012) *Itinerari sommersi nell'Isola di Favignana, Isole Egadi*. RES Edizioni, Sarzana (SP), 80 pp.
  - **Barsanti M.**, Calda N., Valloni R., 2012. *Rearrangement of the Italian Littoral Cells in Response to the Construction of Coastal Structures: Situation at the Beginning of 21st Century*. Extended abstracts Quarto Simposio Internazionale "Il monitoraggio costiero Mediterraneo: problematiche e tecniche di misura", Fondazione LEM Livorno 12-14 Giugno 2012, 97-98.
  - **Barsanti M.**, Calda N., Valloni R., 2011. *The Italian coast: a natural laboratory for the quality evaluation of beach replenishments*. In: A. Micallef ed., Proceedings 3rd International Conference on the Management of Coastal Resources, Grosseto, 27-30 October 2010. Journal of Coastal Research, Special Issue 61, 01-07. ISSN 0749-0208, DOI 10.211.2/SI61-001.1.
  - Valloni R., **Barsanti M.**, Calda N., 2010. *The Role of Sediment Littoral Transport and Dispersal on Sediment Generation Models*. Abstracts 1st WGSG International Workshop: Quantitative Models in Sediment Generation, University of Calabria, Cosenza, June 29 - July 1 2010, Print Universal Book Cosenza, p.80.
  - Delbono I., **Barsanti M.**, Delfanti R., Schirone A., Salvi S., Langone L., Miserocchi S., 2009. *Coefficienti e profondità di mixing nei sedimenti delle piane abissali del Mar Mediterraneo occidentale: risultati preliminari*. Abstract XIX

- Congresso A.I.O.L. (Associazione Italiana di Oceanologia e Limnologia) proceedings, Venice, 22-25 September 2009. pp 91.
- **Barsanti M.**, Calda N. and R. Valloni, 2009. *Gis technology and web-gis applications for the definition of sedimentary units of littoral transport*. Geoitalia 2009, Atti 7° Forum Italiano di Scienze della Terra, Rimini, 9-11 Settembre 2009. Epitome Vol. 3, 137.
  - **Barsanti M.**, Langone L., Delbono I., Misericocchi S., Schirone A., Albertazzi S., Delfanti R., Salvi S., Gallerani A., Tesi T., 2009. *Mixing depths and bioturbation processes in abyssal plains of the Mediterranean Sea. Abstract Progetto V.E.C.T.O.R. (Vulnerabilità delle Coste e degli ecosistemi marini italiani ai cambiamenti climatici e loro ruolo nei cicli del carbonio mediterraneo)*. Proceedings, 2th annual workshop, Rome, 25-26 February, 2009. pp. 9.
  - **Barsanti M.**, Calda N., Valloni R., 2008. *Definizione operativa delle unità sedimentarie di trasporto litorale*. Atti convegno Coste Prevenire, Programmare, Pianificare. Maratea, 15-17 Maggio 2008. Collana Studi e Ricerche dell'Autorità Interregionale di Bacino della Basilicata, 9, Stampa L'Aquilone Potenza, pp. 205-212.
  - Valloni R. and **Barsanti M.**, 2007. *Artificial Beach Nourishment Projects in Italy*. Rapp. Comm. int. Mer Médit., 38, 706.
  - Tricoli C., **Barsanti M.**, Delbono I., 2006. *Offshore wind farms along the Italian coasts: a first selection of suitable areas based on wind and bathymetric data*. Proceedings of the European Seminar OWEMES - Offshore Wind and other marine renewable Energy in Mediterranean and European Seas - Civitavecchia (Rome), April 20-22 2006. pp. 93-102.
  - Valloni R., **Barsanti M.**, Ferretti O., 2005. *Tipi Geologici e Distribuzione Geografica degli Specchi D'acqua Costieri Italiani*. Giornata Mondiale dell'Acqua 22 marzo 2005, "Lagune, Laghi e Invasi Artificiali Italiani" Roma. Atti dei convegni dei Lincei, 222, pp. 201-209.
  - Abbate M., **Barsanti M.**, Cocito S., Delbono I., Ferretti O., Gasparini G.P., Schirone A., 2004. *Il Mare delle Cinque Terre: la costa, le correnti, l'ecosistema*. A cura di ENEA - CNR, Ed. Parco Nazionale delle Cinque Terre, pp. 95.
  - **Barsanti M.**, Bianchi C.N., Delbono I., Ferretti O., Morri C., Peirano A., Vannello O., 2003. *Diachronic G.I.S. Map of a Cymodocea Nodosa Meadow for Coastal Zone Integrated Management in the Tigullio Gulf (Eastern Ligurian Sea)*. Proceedings Fifth International Symposium on GIS and Computer Cartography for Coastal Zone Management – Ottobre 2003. <http://www.gisig.it/coastgis/papers/Barsanti.pdf>.
  - Delbono I., **Barsanti M.**, Corradi N., Ferretti O., 2003. *Sedimentological review of Lavagna coast after its reconstruction in the 70's*. MEDCOAST'03, proceedings of the 6th International Conference of the Mediterranean Coastal Environment, Ravenna, 7-11 Ottobre 2003. pp.1525-1535.
  - Valloni R., Ferretti O., **Barsanti M.**, Ugolotti M., 2003. *The morpho-sedimentological types of Italian coasts and their susceptibility to sea-level rise: a first approximation*. Atti del convegno: Puglia 2003 – Final Conference. Project IGCP 437. Quaternary coastal morphology and sea level changes. Otranto/Taranto – Puglia (Italy) 22-28 September 2003; Addenda V.
  - Ferretti O., Delbono I., **Barsanti M.**, 2003. *Come salvare un sistema dunale: uno*

- studio su Torre Guaceto (Puglia)*. Atti del convegno: Mareamico - XIV Rassegna del Mare. Attività Produttive e Tutela dell'ambiente marino nel quadro del diritto internazionale e comunitario. Bari, 16-18 Giugno 2003, pp. 107-112.
- Corradi N., Delbono I., **Barsanti M.**, Morgigni M., Ferretti O., 2003. *Caratteri morfologici, sedimentologici ed evoluzione del litorale compreso fra Chiavari e Sestri Levante (Liguria Orientale)*. Volume ENEA "Studi per la creazione di Strumenti della Gestione Costiera - Golfo del Tigullio", pp. 21-45.
  - **Barsanti M.**, Delbono I., Ferretti O., Zaquini M., Setti M., 2003. *Caratterizzazione della piattaforma costiera antistante la foce dell'Entella tramite parametri mineralogici e granulometrici*. Volume ENEA "Studi per la creazione di Strumenti della Gestione Costiera - Golfo del Tigullio", pp. 84-99.
  - **Barsanti M.**, Peirano A., Morgigni M., Sgorbini S., Cocito S., Bianchi C.N., Morri C., 2003. *Rilevamenti dei prati di Cymodocea nodosa mediante Side Scan Sonar, ROV ed immersioni subacquee. Area costiera-marina tra Chiavari e Sestri Levante*. Volume ENEA "Studi per la creazione di Strumenti della Gestione Costiera - Golfo del Tigullio", pp.141-155.
  - Ferretti O., Delbono I., Furia S., **Barsanti M.**, 2003. *Elementi di Gestione Costiera, Parte Prima: Tipi morfo-sedimentologici dei litorali italiani*. ENEA, Rapporto Tecnico ENEA, pp. 1-46. (RT/2003/42/CLIM)
  - Ferretti O., Delbono I., Furia S., **Barsanti M.**, 2003. *Elementi di Gestione Costiera, Parte Seconda: Erosione costiera. Lo stato dei litorali italiani*. ENEA, Rapporto Tecnico ENEA, pp. 1-67. (RT/2003/43/CLIM)
  - Ferretti O., Delbono I., Furia S., **Barsanti M.**, 2003. *Elementi di Gestione Costiera, Parte Terza: Difese costiere "rigide". Distribuzione e valutazione delle tipologie*. ENEA, Rapporto Tecnico ENEA, pp. 1-39. (RT/2003/44/CLIM)
  - Ferretti O., Delbono I., Furia S., **Barsanti M.**, 2003. *Elementi di Gestione Costiera, Parte Quarta: Difese costiere "morbide": ripascimenti artificiali. Rassegna tipologica*. ENEA, Rapporto Tecnico ENEA, pp. 1-83. (RT/2003/45/CLIM)
  - **Barsanti M.**, Delbono I., Ferretti O., Zaquini M., Setti M., 2002. *Studio dei processi sedimentari nell'area marina costiera. Utilizzazione del GIS (Geographic Information System) tramite parametri mineralogici e granulometrici*. XV congresso AIOL, Roma, 23 - 25 Settembre 2002. Abstract.
  - Ferretti O., Delbono I., **Barsanti M.**, Conley D.C., 2002. *Dinamica costiera: monitoraggio tramite web-camera e verifica con metodologie tradizionali. Litorale da Sestri Levante a Lavagna*. Atti del III convegno nazionale delle scienze del mare CoNISMa: Ambienti estremi ed aree di transizione. Bari, novembre 2002, pp.108. Abstract.
  - **Barsanti M.**, Delbono I., Ferretti O., Zaquini M., Corradi N., 2002. *Characterisation of the Entella River Delta (NW Italy): Mineralogical, Sedimentological and Seismostratigraphic Aspects*. Atti del convegno: Littoral 2002, Vol. 3 The Changing Coast, Ed Eurocoast Porto – Portogallo; pp. 253 - 258.

Appointments and additional activities

- Since 09/09/2021, appointed as Sole Procedure Manager (RUP) for the ENEA Department for Sustainability of Production and Territorial Systems and registered with the Italian National Anti-Corruption Authority (ANAC).
- Participation in the "CISAS\_2" oceanographic campaign in the Ionian Sea for marine sediment coring activities in collaboration with the Institute for the Coastal Marine

Environment (IAMC) of CNR. Chief scientist: Elvira Olivieri, CNR-IAMC, Naples. R/V Minerva Uno, 07-12 December 2017.

- Participation in the “Anomcity\_2015” oceanographic campaign in the Tyrrhenian and Ionian Seas for marine sediment coring activities in collaboration with IAMC-CNR. Chief scientist: Stella Tamburrino, CNR-IAMC, Naples. R/V Minerva Uno, 04-10 June 2015.
- Since 30/06/2014, GIS (Geographic Information Systems) contact person for the ENEA S. Teresa Marine Environment Research Centre within the GIS-ENEA project.
- Participation in the “Anomcity\_2014” oceanographic campaign in the Sardinia Channel for marine sediment coring activities in collaboration with IAMC-CNR. Chief scientist: Mario Sprovieri, CNR-IAMC, Capo Granitola Section. R/V Minerva Uno, 05-19 June 2014.
- Co-supervisor of the MSc thesis in Earth Sciences: “The littoral platforms in the Gulf of La Spezia: study of the processes responsible for their modelling”. Supervisor: Prof. Marta Pappalardo; co-supervisors: Dr Mattia Barsanti, Dr Alessandro Chelli, Dr Federica G. Pannacciulli; candidate: Dr Ernesto Rosa. University of Pisa, Faculty of Mathematical, Physical and Natural Sciences, Academic Year 2008-2009.
- Participation in the “TRANSMEDOCC-07\_SEDIMENTI” oceanographic campaign in the Western Mediterranean Sea, within the VECTOR project (Vulnerability of Italian coasts and marine ecosystems to climate change and their role in Mediterranean carbon cycles), for deep-sea coring activities. Chief scientist: Leonardo Langone, CNR-ISMAR, Bologna. R/V Urania, 11-27 May 2007.
- Supervisor of the degree thesis in Environmental Sciences: “Diachronic mapping of benthic biocoenoses for the characterisation of the coastal marine environment: the example of the Cymodocea nodosa meadow in the Gulf of Tigullio (Ligurian Sea)”. Supervisors: Prof. Carlo Nike Bianchi, Dr Mattia Barsanti, Dr Giovanni Diviacco; co-supervisors: Prof. Carla Morri, Prof. Mauro Fabiano; candidate: Dr Olivia Vannello. University of Genoa, Faculty of Mathematical, Physical and Natural Sciences, Academic Year 2001-2002.
- Co-supervisor of the degree thesis in Earth Sciences: “Littoral sediment transport cells along the Italian marine coasts: definition using GIS technologies.” Supervisor: Prof. Renzo Valloni; co-supervisor: Dr Mattia Barsanti; external examiner: Prof. Giovanni Mezzadri; candidate: Dr Giulia De Lazzari. University of Parma, Faculty of Mathematical, Physical and Natural Sciences, Academic Year 2004-2005.
- Lecturer of the seminar “Bionomic cartography in the marine environment using GIS (Geographic Information System) techniques”, within the course “Benthic Cartography”, Faculty of Mathematical, Physical and Natural Sciences, University of Genoa. Course holder: Prof. C.N. Bianchi; 25 May 2006.

#### Recent conference participation

- Earth Technology Expo. The Italian Copernicus Relays: the national network for promoting European and national Earth observation services. Immordino F., Candigliota E., Barsanti M., Cocito S., Delbono I., Peirano. Florence, 14 October 2021.
- IX Conference of the Italian Society of Remote Sensing. Florence, 4-6 July 2018. “An application of Sentinel-2 multispectral data for habitat mapping of Pacific islands”. Immordino F., Candigliota E., Barsanti M., Cocito S., Delbono I., Peirano A. Poster.
- European Geosciences Union General Assembly 2018 (EGU2018), Vienna (Austria), 8-13 April 2018. “Contaminants transfer from land to the deep sea: processes and dynamics from the case study of the Gulf of Cagliari (W Tyrrhenian Sea)”. Tamburrino S., Barsanti M., Bonsignore M., Conte F., Delbono I., Del Core M., Delfanti R., Gherardi S., Passaro S., Schirone A., Sorgente R., Sprovieri M. Poster.

Personal data: I authorise the processing of my personal data pursuant to Italian Legislative Decree no. 196 of 30 June 2003 “Personal Data Protection Code”.

18/02/2026  
Mattia Barsanti

