



2003 to date:

Technical Coordinator of the Technical Subcommittee of the National Commission on the Outer Limit of the Continental Shelf (COPLA, Argentina), responsible for managing, monitoring and coordinating the various technical tasks involved.

1976-2002:

Extensive work on projects aimed at solving practical problems posed by the construction of large engineering works of national scope both on the seacoast and on major rivers, and has served as an evaluator of mining resources. Projects in which he has participated or which he has managed include:

- 1998-2002: Monitoring of aerogeophysical surveys, Santa Cruz de la Sierra, Bolivia.
- 1995: Geophysical studies for the Paraná-Paraguay River Waterway Project. Geological and geophysical studies, Buenos Aires-Colonia (Uruguay) Bridge Project over the Río de la Plata.
- 1992: Studies for the siting of the fishing port of Caleta Paula, Santa Cruz.
- 1991-1992: Seismic interpretation for oil prospecting in the El Santiagueño and Meseta Espinosa areas of the Neuquina and San Jorge basins, respectively (CADIPSA).
- 1986: Upgrading of the port of Montevideo, Uruguay.
- 1983: Site study for the operation of an offshore oil rig, Tierra del Fuego (Total Austral).
- 1982: Site seismicity, Atucha II nuclear power plant, Buenos Aires.
- 1980: Channel dredging, Bahía Blanca estuary, Buenos Aires.
- 1977: Siting of a deep-water seaport, Punta Médanos, Buenos Aires.
- 1976: Mining prospecting, Sierra Grande, Río Negro.

#### **Academic activity**

- 1976 to date: School of Engineering, Universidad Católica Argentina. Associate Professor of Topography and Geodetics. Full Professor with tenure since 2008.
- 1996 to date: School of Sea Sciences, Naval University Institute, Argentine Navy. Full Professor. Courses in: Instrument Physics, Topography I and II, Geodetics and Elements of Geophysical Exploration, for the B.Sc.

### Specialized courses

1987 to date: One-year training course in oceanography for commanding officers of the Argentine Navy. Subject: Marine Geophysics.

### Supervision of B.Sc. theses

1997: Technological Institute of Buenos Aires, Department of Oceanography. Title: “Estudio geológico-geofísico aplicado al mejoramiento de un puerto pesquero” (“Geological and geophysical study of the upgrading of a fishing port”).

1996: Technological Institute of Buenos Aires, Department of Oceanography. Title: “Estudios de sitios para la instalación de plataformas off-shore” (“Study of sites for the installation of offshore rigs”).

1994: Technological Institute of Buenos Aires, Department of Oceanography. Title: “Análisis y modelado de una anomalía magnética conspicua en el Golfo San Matías” (“Analysis and modelling of a conspicuous magnetic anomaly in the San Matías Gulf”).

### Publications

Significant publications from the past three years:

#### Scientific journals

1. Parker, G., Violante, R.A., Paterlini, C.M., Marcolini, S., Costa, I.P., and Cavallotto, J.L., Las secuencias sismoestratigráficas del Plioceno-Cuaternario en la Plataforma Submarina adyacente al litoral del este bonaerense (Pliocene-Quaternary seismostratigraphic sequences on the submarine shelf adjacent to the shore of eastern Buenos Aires Province), in *Latin American Journal of Sedimentology and Basin Analysis*, vol. 15, No. 2 (Asociación Argentina de Sedimentología, La Plata, Argentina, 2008), pp. 105-124. ISSN 1669-7316.
2. Hernández-Molina, F.J., Paterlini, C.M., Violante, R.A., Marshall, P., de Isasi, M., Somoza, L., and Rebesco, M., Contourite depositional system in the Argentine Margin: an exceptional record of the influence and global implications of Antarctic water masses, in *Geology*, Vol. 37, No. 6 (Geological Society of America, 2009), pp. 507-510. ISSN 0091-7613.
3. Violante, R.A., Paterlini, C.M., Costa, I.P., Hernández-Molina, F.J., Segovia, L.M., Cavallotto, J.L., Marcolini, S., Bozzano, G., Laprida, C., García Chaporí, N., Bickert, T. and Spiess, V., El Talud Continental adyacente al litoral del este bonaerense: morfología, registro geológico y evolución (The continental slope adjacent to the littoral of eastern Buenos Aires Province: morphology, geological record and evolution), in *Latin American Journal of Sedimentology and Basin Analysis*, Vol. 17, No. 1 (Asociación Argentina de Sedimentología, La Plata, Argentina, 2010), MS 188.
4. Hernández-Molina, F.J., Paterlini, M., Somoza, L., Violante, R.A., Arecco, M.A., de Isasi, M., Rebesco, M., Uenzelmann-Neben, G., Neben, S., and Marshall, P., Giant mounded drifts in the Argentine Basin: origins, global implications in the thermohaline circulation, and gas hydrate potential, in *Marine and Petroleum Geology*, Vol. 27 (2010), pp. 1508-1530.

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**Books and book chapters**

Violante, R.A., Marcolini, S., Cavallotto, J.L., Paterlini, C.M., Costa, I.P., Laprida, C., Dragani, W., Watanabe, S., Totah, V., Rovere, E.I., and Osterrieth, M.L., The Argentine Continental Shelf: morphology, sediments, processes and evolution since the last glacial maximum. Submission for *Continental Shelves During the Last Glacioeustatic Cycle: Shelves of the World Reviews*

continental slope), paper presented at the Twelfth Reunión Argentina de Sedimentología, Buenos Aires, Argentina, June 2008. Abstract 187, A. Tripaldi and G. Veiga, eds.

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15. Hernández-Molina, F.J., Somoza, L., Paterlini, C.M., Violante, R.A., Rebesco, M,