

Publications

1. Aleotti, L., Poletto, F., Miranda, F., Corubolo, P., Abramo, F., and Craglietto, A., 1999, Seismic while-drilling technology: use and analysis of the drill-bit seismic source in a cross-hole survey, *Geophysical Prospecting*, **47**, 25–39.
2. Carcione, J. M., and Poletto, F., 2000, Sound velocity of drilling mud saturated with reservoir gas: *Geophysics*, **65**, 646–651.
3. Carcione, J. M., Petronio, L., Poletto, F., Seriani, G., and Miranda, F., 2001, A 3D Elastic modelling code for seismic wave propagation and 3D SWD surveys: *Science and Supercomputing at CINECA 2001 Report*, 318–324.
4. Carcione, J. M., and Poletto, F., 2000, Simulation of stress waves in attenuating drill strings, including piezoelectric sources and sensors: *J. Acoust. Soc. Am.*, **108**(1), 53–64.
5. Carcione, J. M., and Poletto, F., 2002, A telegrapher equation for electric telemetering in drill strings: *IEEE Transactions of Geoscience and Remote Sensing*, **40**, 1047–1053.
6. Carcione, J. M., and Poletto, F., 2003, Electric drill-string telemetry: *J. Comput. Phys.*, **186**, 596–609.
7. Carcione, J. M., and Poletto, F., and Gei, D., 2004, 3-D wave simulation in anelastic media using Kevin-Voigt constitutive equation: *J. Comput. Phys.*, **196**, 282–297.
8. Carrion, P., Persoglia, S., and Poletto, F., 1995, High resolution travelttime imaging: *The Leading Edge*, January 1995, **14**, No. 1, pp. 26–28.
9. Malusa, M., Poletto, F., and Miranda, F., 2002, Prediction ahead of the bit by using drill-bit pilot signals and reverse VSP (RVSP): *Geophysics*, **67**, 1169–1176.
10. Malusa, M., Poletto, F., and Miranda, F., 2003, SWD using lateral vibrations of PDC bits: 73rd Ann. Internat. Mtg., Soc. of Expl. Geophys., Expanded Abstract, 2223–2226.
11. Miranda, F., Aleotti, L., Abramo, F., Poletto, F., Craglietto, A., Persoglia, S., and Rocca, F., 1996, Impact of seismic while drilling technique on exploration wells: *First Break*, **14**, 55–68.
12. Petronio, L., and Poletto, F., 2002, Seismic-while-drilling by using tunnel boring machine noise: *Geophysics*, **67**, 1798–1809.

13. Petronio, L., Poletto, F., Carcione, J. M., Seriani, G., Luca, A., and Miranda, F., 2001, Seismic-wave modelling of a 3D SWD survey: 63rd Mtg. Assn. Geosci. Eng., Extended Abstracts, Session PO10.
14. Petronio, L., Poletto, F., Schleifer, A., and Morino, A., 2003, Geology prediction ahead of the excavation front by Tunnel-Seismic-While-Drilling (TSWD) method: Soc. Expl. Geophys., 73rd Annual Internat. Mtg., Expanded Abstract.
15. Poletto, F., 2000, A blind interpretation of drill-bit signals: *Geophysics*, **65**, 970–978.
16. Poletto, F., 2000b, Optimum stack of drill-bit data by signal-to-noise analysis: Final Report THERMIE Project OG/136/95/IT/UK, Chapter 2, Rel. OGS 27/2000 GDL 25/2000, (7), 35–39.
17. Poletto, F., 2002, Use of dual waves for the elimination of reverberation in drill string: *J. Acoust. Soc. Am.*, **111** (1), 37–40.
18. Poletto, F., 2005a, Energy balance of the drill-bit seismic source. Part A: rotary energy and radiation properties: *Geophysics*, in press.
19. Poletto, F., 2005b, Energy balance of the drill-bit seismic source. Part B: drill-bit versus conventional seismic sources: *Geophysics*, in press.
20. Poletto, F., and Carcione, J. M., 2001, On the group velocity of guided waves in drill strings: *J. Acoust. Soc. Am.*, **109** (4), 1743–1746.
21. Poletto, F., Carcione, J. M., Lovo, M., and Miranda, F., 2002, Acoustic velocity of SWD borehole guided waves: *Geophysics*, **67**, 921–927.
22. Poletto, F., and Craglietto, A., 1991, Orthogonalized noise subtraction: 53rd Mtg. Assn. Geosci. Eng., Extended Abstracts, 566–567.
23. Poletto, F., and Dordolo, G., 2002, A new approach to offshore drill-bit RVSP: *Geophysics*, **67**, 1071–1075.
24. Poletto, F., Lovo, M., and Carcione, J. M., 2000, Acoustic velocity of drilling mud and SWD borehole guided waves: 70th Ann. Internat. Mtg., Soc. of Expl. Geophys., Expanded Abstracts, 1763–1766.
25. Poletto, F., and Malusa, M., 2002, Reflection of drill-string extensional waves at the bit-rock contact: *J. Acoust. Soc. Am.*, **111** (6), 2561–2565.
26. Poletto, F., Malusa, M., and Miranda, F., 2000, Reflection of drill-bit extensional waves at the bit-rock interface: 70th Ann. Internat. Mtg., Soc. of Expl. Geophys., Expanded Abstracts, 1767–1770.

27. Poletto, F., Malusa, M., and Miranda, F., 2001, Numerical modeling and interpretation of drillstring waves: *Geophysics*, **66**, 1569–1581.
28. Poletto, F., Malusa, M., and Miranda, F., 2003, SWD using rig-pilot arrays: 73rd Ann. Internat. Mtg., Soc. of Expl. Geophys., Expanded Abstracts, 2227–2230.
29. Poletto, F., Malusa, M., Miranda F., and Tinivella, U., 2004, Seismic while drilling by using dual sensors in drill strings: *Geophysics*, **69**, 1261–1271.
30. Poletto, F., Malusa, M., Petronio, L., Lovo, M., and Miranda, F., 2002, First results of the SEISBIT 3D RVSP project: *Boll. Geof. Teor. Appl.*, **43**, 119–130.
31. Poletto, F., and Miranda, F., 1998, Seismic while drilling use of pilot signals with downhole motor drilling: 68th Ann. Internat. Mtg., Soc. of Expl. Geophys., Expanded Abstracts, 147–150.
32. Poletto, F., Miranda, F., Corubolo, P., and Abramo, F., 1997, Seismic while drilling using PDC signals - Seisbit experience and perspectives: 59th Mtg. Eur. Assn. Geosci. Eng., Extended Abstracts, Session E-053.
33. Poletto, F., Miranda, F., Corubolo, P., and Abramo, F., 1997, Monitoring lithology variations in complex exploration areas by the SWD technology. SEISBIT experience and perspectives: Abstr. AAPG Internat. Conference and Exhibition, Vienna, 7–10 September.
34. Poletto, F., Miranda, F., Petronio, L., Bertelli, L., Malusa, M., Luca, A. and Schleifer, A., 2001, 3D RVSP Drill-Bit Survey - Preliminary Results: 63rd Mtg. Eur. Assn. Geosci. Eng., Extended Abstracts, Session M-12.
35. Poletto, F., and Petronio, L., 2003, Transmitted and reflected waves in Tunnel SWD: Soc. Expl. Geophys., 73rd Annual Internat. Mtg., Expanded Abstract.
36. Poletto, F., Petronio, L., Malusa, M., Schleifer, A., Corubolo, P., Miandro, R., Bellezza, C., and Gressetvold, B., 2003, Prediction and 3D imaging while drilling by drill-bit 3D RVSP: 65rd Mtg. Eur. Assn. Geosci. Eng., Extended Abstracts, Session P221.
37. Poletto, F., Rocca, F., and Bertelli, L., 2000, Drill-bit signal separation for RVSP using statistical independence: *Geophysics*, **65**, 1654–1659.
38. Poletto, F., and Savini, L., 1997, The SEISBIT seismic while drilling technology: a selected case history and new trends: The first GCC - EU Conference on advanced Oil and Gas technologies, Preprints, Bahrain 13–15 October.

39. Rossi, G., Corubolo, P., Bohm, G., Ceraggioli, E., Dell'Aversana, P., Morandi, S., Poletto,F., and Vesnaver, A., 2001, Joint 3D inversion of SWD and surface seismic data: First Break, **19**, 453–459.

Book

Poletto, F., and Miranda, F., 2004, Seismic while drilling. Fundamentals of drill-bit seismic for exploration: *Handbook of geophysical exploration, Seismic exploration series, Vol. 35, Elsevier,*