

## Patents

- 1 Rüter, H., and Strack, K.-M., 1991, Bedrock exploration system using transient electromagnetic measurements, WO 91/14954
- 2 Rüter, H., and Strack, K.-M., 1995, Method of processing transient electromagnetic measurements in geophysical analysis, US patent 5,467,018. (unassigned)
- 3 Singer, B., Maurer, H. -M., and Strack, K. -M., 1996, Method and apparatus for measuring formation resistivity through casing using single-conductor electrical logging cable, US patent 5,543,715. (assigned to Baker Hughes)
- 4 Yu, G., Tang, X., Cheng, A., and Strack, K.-M., 1998, Apparatus and method for combined acoustic and seismoelectric logging measurements ,US patent 5841280.(assigned to Baker Hughes)
- 5 Mezzatesta, A.G., Jervis, M.A., Beard, D.R., and Strack, K.-M.,1999, Systems and Methods for forward modeling of well logging tool responses, US patent 5862513. (assigned to Baker Hughes)
- 6 Strack, K. -M., Tabarovsky, L. A.,1999, Method of determining formation resistivity utilizing combined measurements of inductive and galvanic logging instruments, US patent 5,883,515. (assigned to Baker Hughes)
- 7 Frenkel, M., Mezzatesta, A.G., Strack, K.-M., Tang, X., and Vozoff, K., 1999, Joint inversion processing methods for resistivity and acoustic well log data, US patent 5,870,690. (assigned to Baker Hughes)
- 8 Beard, D.J., v.d. Horst, M., Strack, K.-M., and Tabarovsky, L.A., 1998, Electrical logging of a laminated Earth formation, PCT application WO 98/00733. (assigned to Shell)
- 9 Payton, C.C., Strack, K.-M., and Tabarovsky, L.A., 1999, Method and Apparatus for measuring transient electromagnetic and electrical components propagated in an Earth formation, US patent 5955884.. (assigned to Baker Hughes)
- 10 Strack, K.-M., Tabarovsky, L.A., Beard, D.B., and van der Horst, M., 2000, Determining electrical conductivity of a laminated earth formation using induction logging, US patent US patent 6147496.
- 11 Strack, K.-M., 2003, Integrated borehole system for reservoir detection and monitoring, US patent US patent 6,541,975. (also Canadian, Chinese, Eurasia patent granted)
- 12 Strack, K.-M., 2003, Integrated borehole system for reservoir detection and monitoring, US patent US patent 6,670,813. Continuation of 6,541,975.
- 13 Strack, K.-M., 2004, Combined surface and wellbore electromagnetic measurement system and method for determining formation fluid properties, US patent 6,739,165 B1
- 14 Hanstein, T., Rueter, H., and Strack, K., 2003, LWD induction deconvolution methods, US patent US patent 6,891,376.
- 15 Strack, K.M., and Rueter, H., 2005, System for measuring earth formation resistivity through an electrical conductive wellbore casing, US patent US patent 6,975,121.
- 16 Strack, K.M., and Rueter, H., 2006, System for measuring earth formation resistivity through an electrical

- conductive wellbore casing, additional claims, US patent US patent 7,034,538.
- 17 Strack, K.M., and Rueter, H., 2004, Method and apparatus for measuring formation conductivities from within cased wellbores by combined measurement of casing current, leakage and electromagnetic response, US patent US patent 7,202,671
  - 18 Strack, K.-M., Thomsen, L.T., and Rueter, H., 2006, Method of acquiring transient electromagnetic surveys data, US patent US patent 2006, US 7,203,599
  - 19 Strack, K.M., and Rueter, H., 2007, Method and apparatus for measuring formation conductivities from within cased wellbores by combined measurement of casing current, leakage and electromagnetic response, US patent 7,272,503.
  - 20 Strack, K. M., Thomsen, L., and Rueter, H., 2008, Integrated earth formation evaluation method using controlled source electromagnetic survey data and seismic data, US 7,328,107.
  - 21 Strack, K.-M., Allegar, N., 2008, Method of acquiring and interpreting seismoelectric & electroseismic data, US patent US patent 7,340,348.
  - 22 Stoyer, C.H., Strack, K.-M., 2008, Method of acquiring and interpreting electromagnetic measurements, US patent US patent 7,356,411.
  - 23 Strack, K.M., and Rueter, H., 2008, System for measuring earth formation resistivity through an electrical conductive wellbore casing, US patent 7,388,382
  - 24 Strack, K.M., 2009, Method for combined transient and frequency domain electromagnetic measurements, US 7474101 .
  - 25 Strack, K.M., 2009, Fast 3D inversion of electromagnetic survey data using a trained neural network in the forward modeling branch, US 7574410 .
  - 26 Strack, K.M., and Helwig, S.L., 2010, Method for measuring the magnetotelluric response to the earth's subsurface, US 7,746,077.
  - 27 Strack, K.M., 2010, Fast 3D inversion of electromagnetic survey data using a trained neural network in the forward modeling branch, US 7,574,410.
  - 28 Strack, K.M., McMillan, I., and Helwig, S., 2010, Buoy-based marine electromagnetic signal acquisition system, US 7,705,599.
  - 29 Strack, K.M., and Helwig, S., 2010, Method for measuring the magnetotelluric response to the earth's subsurface, US 7,746,077.
  - 30 Strack, K.-M., and Helwig, S., 2010, Multi-component marine electromagnetic signal acquisition cable and system, US 7,800,374.
  - 31 Strack, K.-M., and Helwig, S., 2011, Multi-component marine electromagnetic signal acquisition cable and system, US 7,872,477 B2.
  - 32 Strack, K.M., and S. L. Helwig, 2012, Method for determining electric field response to an electromagnetic field induced by the Earth's surface, US 8,154,295

- 33 Helwig, S. L., and K.-M. Strack, 2012, Marine electromagnetic acquisition apparatus with foldable sensor arm assembly, US 8,148,990
- 34 Helwig, S.L., 2012, Method of testing electric field recordings iof a marine electromagnetic sensor cable, [US 8,134,369](#).
- 35 Strack, K.M., and Helwig, S.L., 2012, Method for determining electric field response to an electromagnetic field induced by the Earth's surface, [US 8,154,295](#).
- 36 Strack, K.M., and Helwig, S.L., 2014, Methods for determining an electric field response of the Earth's subsurface, [US 8,890,532](#).
- 37 Helwig, S.L., 2014, Method of testing electric field recordings iof a marine electromagnetic sensor cable, [US8,810,248](#) continuation of [US 8,134,369](#).
- 38 Jiang, J., Aziz, A.A., Liu, Y., and Strack. K.M., 2015, Geophysical acquisition system, [US 9,057,801](#)

**More patents in process and many additional international filings (over 100).**

### Selected Publications

- 1 Strack, K.-M., Ibrahim, A. W., Keller, G. V., Stoyer, C. H., 1982, *A method for the determination of thermal conductivity of sandstones using a variable state approach*, **Geophysical Prospecting** 30, 454-469.
- 2 Strack, K. -M., 1984, *The deep transient electromagnetic sounding technique: First field-test in Australia*, **Exploration Geophysics** 15, 451-459.
- 3 Strack, K. -M., 1985, *Das Transient-Elektromagnetische Tiefensondierungsverfahren angewandt auf die Kohlenwasserstoff und Geothermie Exploration*, in: Ebel, A., Neubauer, F. M., Raschke, E., Speth, P. (Hrsg.), **Mitt. des Institutes f. Geophys. u. Met. der Universität zu Köln** 42, 188 pp.
- 4 Greinwald, S., Strack K.-M., 1986, *Transient Elektromagnetik (TEM) Erkundung der Leitfähigkeit mit wandernden Stromsystemen*, **Geophysikalische Schlüsselexperimente in der KTB**, 45-53.
- 5 Strack, K.-M., 1986, *Analyse der Störungen des Erdschwerefeldes in der Kontinentalen Tiefbohrung (Bohrlochgravimetrie)*, in: FKPE (Hrsg.), **Geophysikalische Schlüsselexperimente in der KTB**, 69-77.
- 6 Strack, K.-M., Hanstein, T. H., Eilenz, H. N., 1989, *LOTEM data processing for areas with high cultural noise levels*, **Physics of the Earth and Planetary Interior** 53, 261-269.
- 7 Wilhelm, H., Berkold, A., Bonjer, K.-P., Jäger, K., Stiefel, A., Strack, K.-M., 1989, *Heat flow, electrical conductivity and seismicity in the Black Forest crust, SW Germany*, in: Mereu, R.F., Müller, S., Fountain, D.M., **Properties and Processes of the Earth's lower crust**. IUGG Volume 6, Am. Geophys. Union, Washington, D.C., 215-232.
- 8 Strack, K.-M., Lebrocq, K., Moss, D. C., Petry, H., Vozoff, K., Wolfgram, P. A., 1989, *Case histories of long-offset transient electro-magnetics (LOTEM) in hydrocarbon exploration*, **First Break** 7, 467-477.
- 9 Strack, K.-M., Lüschen, E., Kötz, A. W., 1990, *Long-offset transient electromagnetic (LOTEM) depth soundings applied to crustal studies in the Black Forest and Swabian Alb, FRG*, **Geophysics** 55, 834-842.
- 10 Stephan, A., Schniggenfittich, H., Strack, K.-M., 1991, *Long-offset transient EM sounding north of the Rhine-Ruhr coal district*, **Geophysical Prospecting** 39, 505-525.
- 11 Stephan, A., Strack, K.-M. 1991, *A simple approach to improve the signal to noise ratio for TEM' data using multiple receivers*, **Geophysics** 56, 863-869.
- 12 Strack, K.-M., Hördt, A., Vozoff, K., Wolfgram, P.A, 1991, *Integrated electromagnetic and seismic methods for petroleum exploration*, **Exploration Geophysics** 22, 375-378.
- 13 De Beer, J. H., Le Roux, C. L., Hanstein, T., Strack, K.-M., 1991, *DC Resistivity and LOTEM model for the deep structure of the northern edge of the Kaapvaal Craton, South Africa*, **Physics of the Earth and Planetary Interior** 66, 51-61.
- 14 Strack, K.-M., 1991, *German Transient EM Systems*, in Nabighian, M.N., (ed), **Electromagnetic Method Vol II**, Soc. Explor. Geophys., 422-425.
- 15 Hördt, A., Jödicke, H., Strack, K.-M., Vozoff, K., Wolfgram, P.A., 1992, *Interpretation of long-offset TEM soundings near the borehole Münsterland 1, Germany, and comparison with MT measurements*, **Geophys. J. Internatl.** 108, 930-940.

- 16 Wolfgram, P.A., Casten, U, Gatto, H., Neubauer, F.M., Richter, J.E.T., Strack, K.-M., 1992, *Interpretation of Borehole Gravity Data from the German Continental Deep Drilling Project*, **Scientific Drilling** 3, 70-75.
- 17 Hördt, A., Druskin, V.L., Knizhnerman, L.A., Strack, K.-M., 1992, *Interpretation of 3-D effects in long-offset transient electromagnetic (LOTEM) soundings in the Münsterland area /Germany*, **Geophysics** 57, 1127-1137.
- 18 Tabarovsky, L.A., Goldman, M.M., Rabinovich, M.B., Strack, K.-M., 1996, *2.5-D Modeling in electromagnetic methods of geophysics*, **Journal of Applied Geophysics** 35,261-284.
- 19 Strack, K.-M., Vozoff, K., 1996, *Integrating long-offset transient electromagnetics (LOTEM) with seismics in an exploration environment*, **Geophysical Prospecting** 44, 99-101.
- 20 Singer, B. Sh., and Strack, K.-M., 1998. *New aspects of through-casing resistivity theory*, **Geophysics**. 63, 52-63.
- 21 Fanini, O., Haines, H., Hunziker, J., Maurer, H.-M., R. Siegfried II, and Strack, K.-M., 1999, A Major Technology Breakthrough - Cased-Hole Resistivity Tool, **in-depth** 5, 12-25. (KS senior author)
- 22 Mirotchnik, K., Kryuchkov, S., and Strack, K., 2004, A novel methods to determine NMR petrophysical parameters from drill cuttings, Transactions of the SPWLA vol. 45, paper MM
- 23 Strack, K.M., and Pandey, P.B., 2007, Exploration with controlled source electromagnetics under basalt cover in India, *The Leading Edge*, 26, 360-363.
- 24 He, Z., Wang, Z., Yu, G., Strack, K.M., and Liu, H., 2007, Modeling of 3D MCSEM and sensitivity analysis, *PIERS online*, 3(5).
- 25 Strack, K.M., 2010, K. Vozoff's influence on Lotem hydrocarbon applications, 21 ASEG Conference and Exhibition, Expanded abstract volume.
- 26 Strack, K., 2010, Advances in Electromagnetics for Reservoir Monitoring, 8th International Conference & Exposition, Hyderabad.
- 27 Strack, K.M., Hanstein, T., Stoyer, C.H., and Thomsen, L., 2011, Time Domain Controlled Source Electromagnetics for hydrocarbon applications, in *The Earth's Magnetic Interior*, IAGA Special Sopron book series, Petrovský, E., Herrero-Bervera, E.; Harinarayana, T. and Ivers, D. (Eds.), 101- 115.
- 28 Strack, K.M., and Aziz, A.A., 2012, Full Field Array ElectroMagnetics: Advanced EM from the surface to the borehole, exploration to reservoir monitoring, in Lane, R. (Editor), *Natural Fields EM Forum 2012*, Geoscience Australia Record 2012/04, 176-198.
- 29 Strack, K.M., and Aziz, A.A., 2013, Full Field Array ElectroMagnetics for hydrocarbon reservoir exploration and monitoring, *Geohorizons (Special Issue on Shale Gas)*, 18, 32-43.
- 30 Strack, K.-M., 2014, Future directions of Electromagnetic Methods for Hydrocarbon Applications, *Surveys in Geophysics*, 35, 157-177.

### Textbooks, edited books, recent courses

1. Strack, K.-M., 1992, *Exploration with deep transient electromagnetics*, Elsevier, 373 pp. (reprinted 1999)
2. Frenkel, M., King, G., Strack, K.-M., Tang, X., and Tubman, K. (eds.), 1995, *Integration of seismic data with well logs*, SEG 1995 Summer Research Workshop. 173 pp. (also workshop co-chairman)
3. Array resistivity measurements and interpretation, 1998, SPE alternate distinguished lecture
4. Introduction to Geophysics (for non-Geoscientists), 1998, co-author with G. Yu.
5. Introduction to Borehole Geophysics, co-author with G. Yu, 1998.
6. Advanced Logging School: New Technologies, 1999, 12 lectures on new logging technology, co-editor/co-author with Gang Yu. (Baker Atlas proprietary)
7. Through Casing Resistivity, 1998-1999, SPE Distinguished lecture.
8. Petrophysics Fundamentals, J. Schoen, G. Yu and K. -M. Strack, 1999. Lecture given in USA, Malaysia, Indonesia, Australia (co-author)
9. Electromagnetic Methods in Petroleum Exploration (MT & LOTEM), 1999, Vozoff (MT) and Strack (LOTEM) short course given at Curtin University, Perth, Western Australia.
10. Gasparotto, F., Strack, K. -M., and Treitel, S. (eds.), *Geoinversion: Model-based inversion challenges the technology transfer*, SEG 1999 Summer Research Workshop, 49pp. (also workshop chairman).
11. Borehole geophysics. Graduate lecture at University of Houston fall semester 2000-2009. Course also taught to Petrobras (2005) and at Petroleum University Beijing (2006).
12. before 1992: numerous lectures at the University of Cologne on Applied Geophysics; Hydrocarbon exploration with electrical methods; Geophysical Field Camp etc etc.
13. Strack, K.M. (lead), Cluff, R., Klein, J., & Thomsen, L, Special Editors, 2001, Petrophysics vol 42 (2), issue on borehole anisotropy, SPWLA.
14. Strack, K.M. (lead), Cluff, R., Klein, J., & Thomsen, L, Special Editors, 2001, Petrophysics vol 42 (4), issue on borehole anisotropy, SPWLA
15. Strack, K.M., Hagiwara, T., and Zhou, Q., 2004, Resistivity Logging – Short Course, presented at SPWLA annual conference,
16. Strack, K.M., 2008-2009, Electromagnetics for hydrocarbon applications, short course given at: University of Houston, SPG India (Hyderabad (2x), Kochi), ONGC, Saudi Aramco, ION, Mahidol University, Yangtze University, PTTEP – Thailand, EM Induction workshop 2014 Weimar - Germany.
17. Strack, K.-M., 2010-2014, Reservoir Characterization with Borehole Geophysics, course taught at University of Houston from 2000 to 2014, PTTEP- Thailand; University Bonn, Mahidol University Bangkok

### Published abstracts, contributions to proceedings, reports etc.

- 1 Bond, M.A., Burgett, W.A., James, B.A., Nicoletis, S.A., Strack, K.-M., Washburne, J.C., 1981, *A comparison of the TDEM sounding method in the near and far zones*, report GP671T-1980, Colorado School of Mines, Golden, 29pp.
- 2 Strack, K.-M., 1981, *A method for the determination of thermal conductivities of sandstones using a variable state approach*, M. Sc. Thesis T-2476, Colorado School of Mines, Golden, 162pp.
- 3 Strack, K.-M., 1981, *Area calibration of cryogenic magnetometers*, Group Seven Inc., technical report, 21pp.
- 4 Ibrahim, A.W., Keller, G.V., Bussey, H.E., Jennings, J.B., Strack, K.-M., 1982, *Developments and applications of wide band laboratory dielectric constant measurement system*, U.S. Dept. of Energy, Contract DE-AC19-79BC10123.
- 5 Walker, R.C., Harthill, N., Strack, K.-M., Lee, D.S., 1982, *Sensitivity analysis for transient electromagnetic sounding inversion*, 52nd Annual Meeting, Society of Exploration Geophysicists, paper NS 8.
- 6 Strack, K.-M., 1983, *The long offset transient electromagnetic sounding technique - initial investigations in Australia*, Report Centre for Geophysical Exploration Research, Macquarie University.
- 7 Stoyer, C.H., Strack, K.-M., 1984, *The deep transient electromagnetic (TDEM) sounding technique*, 46th Annual Meeting, European Association for Exploration Geophysicists, London, paper 401.
- 8 Strack, K.-M., 1984, *Forward modeling for time-domain electromagnetic (TDEM) sounding surveys*, 46th Annual Meeting, European Association for Exploration Geophysicists, London, paper 402.
- 9 Strack, K.-M., 1984, *Transient Elektromagnetische Tiefensondierungen mit Anwendungsbeispielen der Kohlenwasserstoffexploration*, in: Haak, V., Homilius, J., (Hrsg.), Prot. Koll. Elektr. Tiefensond. Grafrath, NLfB, 269-282.
- 10 Strack, K.-M., Tasci, M.T., Harthill, N., 1984, *Exploration with the deep time-domain EM sounding method in the United States and Australia*, 46th European Association for Exploration Geophysicists meeting in London, paper 404.
- 11 Strack, K.-M., 1985, *Anwendung von Transient-elektromagnetischen Tiefensondierungen auf die Kohlenwasserstoff-Exploration*, in Dresen, L., Fertig, J., Rüter, H. (Hrsg.), 5. Mintrop Seminar, Nichtseismische Verfahren für Seismiker, 153-196.
- 12 Hanstein, T., Reimers, L.E., Schalkowski, W., Strack, K.-M., 1986, *Selective stacking with automated rejection criteria*, 48th European Association for Exploration Geophysicists meeting in Ostend, paper 302.
- 13 Kuth, Ch., Neubauer, F.M., Strack, K.-M., 1986, *2D-and 3D-Modelling of Induction-Wave-Log-Measurements for the KTB*, 2. KTB-Kolloquium, Seeheim, 66.
- 14 Büttgenbach, T., Richter, J., Neubauer, F.M., Strack, K.-M., 1986, *Bohrloch-Gravimetrie*, in: Kontinentales Tiefbohrprogramm der BRD, 2. KTB-Kolloquium, Seeheim, 67.

- 15 Wohlenberg, J., Voigt, G., Wendel, C., Bluemecke, T., Seidel, U., Rath, V., Martinez, M., Brasse, H., Leonhardt, M., Musmann, G., Weidelt, P., Drews, C., Bahr, K., Jensen, U., Czarkowski, U., Strack, K., M., Eilenz, H. N., Hausteil, T., Kalle, C. H., and Haak, V., 1986, *KTB - Ein Modell der elektrischen Leitfähigkeit für die Lokation Oberpfalz*, in: Kontinentales Tiefbohrprogramm der BRD, 2. KTB-Kolloquium, Seeheim, 25.
- 16 Eilenz, H.N., Hanstein, T.H., Kalle, C.H., Koetz, A.W., Krawietz, M.P., Neubauer, F.M., Strack, K.-M., 1986, *LOTEM-Tiefensondierung zur Bestimmung der elektrischen Leitfähigkeit in der Oberpfalz und im Schwarzwald*, in: Kontinentales Tiefbohrprogramm der BRD, 2.KTB-Kolloquium, Seeheim, 65.
- 17 LOTEM-Arbeitsgruppe, 1986, *Schwarzwald, LOTEM-Tiefensondierung*, in: Kontinentales Tiefbohrprogramm der BRD, 2. KTB-Kolloquium, 48.
- 18 Hanstein, T., Eilenz, H., Strack, K.-M., 1987, *Einige Aspekte der Aufbereitung von LOTEM-Daten* in: Haak, V., Homilius, J. (Hrsg.), Prot. Koll. Elektr. Tiefensond. Lehrbach, NLFb, 319-328.
- 19 Strack, K.-M., 1987, Entwicklung eines Transient-Elektromagnetischen Tiefensondierungssystems (TDEM-System) mit Anwendung auf die Exploration nach Kohlenwasserstoffen und geothermischen Lagerstätten: Statusreport 1.1-31.12.1986, 03E-6360-A (marked confidential, added 2007)
- 20 Petry, H., Strack, K.-M., Weidelt, P., 1987, *Das Auflösungsvermögen von LOTEM-Sondierungen*, in: Haak, V., Homilius, J. (Hrsg.), Prot. Koll. Elektr. Tiefensond. Lehrbach, NLFb, 329-340.
- 21 Strack, K.-M., Lüschen, E., Wolfgram, P.A., and Wilhelm, H., 1987, *Comparison of LOTEM depth sounding data with seismic data in Southern Germany*, Terra Cognita 7, 166.
- 22 Strack, K.-M., 1987, 'All Time' Definition des scheinbaren spezifischen Widerstandes für die LOTEM-Methode, in: Haak, V., Homilius, J. (Hrsg.), Elektromagnetische Tiefenforschung, Lehrbach, NLFb, 341-347.
- 23 Bonjer, K.-P., Jäger, K., Stiefel, A., Wilhelm, H., Berkold, A., Strack, K.-M., 1987, *Crustal heat flow, seismicity and electrical conductivity in the Black Forest crust, SW Germany*, IUGG XIX general assembly, Vancouver.
- 24 Neubauer, F.M., Lüschen, E., Strack, K.-M., Wilhelm, H., 1987, *Correlation of low velocity and low resistivity zones from crustal seismic studies and LOTEM depth soundings*, IUGG XIX assembly, Vancouver.
- 25 Petry, H., Hanstein, T.H., and Strack, K.-M., 1987, *The joint interpretation of both the magnetic and electric fields of LOTEM data for resistive layers*, 49th Annual Meeting, European Association for Exploration Geophysicists, Belgrade, 80-81.
- 26 Strack, K.-M., Eilenz, H.N., Hanstein, T.H., and Kötz, A.W., 1987, *Deep LOTEM sounding application (D-28)*, 49th Annual Meeting, European Association for Exploration Geophysicists, Belgrade, 81-82.
- 27 Strack, K.-M., Kuth, Ch., and Lüschen, E., 1987, *Introducing LOTEM to deep crustal studies*, 13th annual convention and seminar on exploration geophysics, European Association for Exploration Geophysicists, India, Abstract vol., A44.
- 28 Wilhelm, H., Stiefel, A., Berkold, A., Strack, K.-M., Bonjer, K.-P., Schneider, T., 1987, *Heat flow, electrical conductivity and stress sounding in the Black Forest, SW Germany*, Terra Cognita 7, 166.
- 29 Büttgenbach, T., Richter, J., Neubauer, F. M., Strack, K.-M., 1987, *Untersuchung von Korrelationsbeziehungen zwischen der Dichte und der seismischen Geschwindigkeit mit Hilfe der Datenbank DABACOS*, in Haenel, R., and Schopper, R., (eds.), KTB Report 87-2: Grundlagenforschung und Bohrlochgeophysik, 153-172.



- 30 Büttgenbach, T., Neubauer, F.M., Richter, J., Strack, K.-M., 1988, *Integrated interpretation of borehole gravity measurements using databases*, in: Kontinentales Tiefbohrprogramm der Bundesrepublik Deutschland, 1. KTB Schwerpunkt-Kolloquium, Giessen, 43.
- 31 Kuth, Ch., Neubauer, F.M., Strack, K.-M., 1988, *3-D Induction log simulations*, 1. KTB Schwerpunkt Kolloquium, Giessen, 44.
- 32 Strack, K.-M., Eilenz, H.N., Hanstein, T.H., Koetz, A.W., Krawietz, M., Neubauer, F.M., Petry, H., Weidelt, P., Wolfgram, P.A., 1988, *Entwicklung eines Transient-Elektromagnetischen Tiefensondierungssystems mit Anwendung auf die Exploration nach Kohlenwasserstoff und geothermischen Lagerstätten*, in: KFA-Jülich (Hrsg.), Statusreport 1988. Geotechnik und Lagerstätten, 83-94.
- 33 Wolfgram, P.A., Strack, K.-M., Seara, J.L., Karmann, R., 1988, *Demonstrationsmessungen mit dem Transient Elektromagnetischen Tiefensondierungsverfahren in Problemgebieten der Kohlenwasserstoffexploration in Indien und China*, in: KFA- Jülich (Hrsg.), Statusreport 1988. Geotechnik und Lagerstätten, 1988, 95-104.
- 34 Strack, K.-M., Eilenz, H.N., Hanstein, T.H., Koetz, A.W., Krawietz, M., Neubauer, F.M., Petry, H., Weidelt, P., Wolfgram, P.A., 1988, *The transient electromagnetic sounding method for hydrocarbon and geothermal exploration*, in: Commission of the European Communities (ed.), Hydrocarbon Symposium Luxembourg 3, 31-40.
- 35 Büttgenbach, T., Neubauer, F.M., Richter, J., Strack, K.-M., 1988, *Anwendung geophysikalischer Datenbanken bei der Interpretation von Korrelationsbeziehungen*, 48. DGG-Tagung, Köln, 89.
- 36 Hanstein, T.H., Strack, K.-M., 1988, *Sensitivitätsanalyse für transient elektromagnetische Felder*, 48. DGG-Tagung, Köln, 174.
- 37 Wolfgram, P.A., Strack, K.-M., LeBrocq, K., Moss, D., Vozoff, K., 1988, *Resolving resistive layers in hydrocarbon exploration with the LOTEM method*, 48. DGG-Tagung, Köln, 177.
- 38 Strack, K.-M., LeBrocq, K., Moss, D.C., Petry, H., Vozoff, K., Wolfgram, P.A., 1988, *Resolving resistive layers with LOTEM in hydrocarbon exploration: case histories*, paper 4-23, 50th Annual Meeting, European Association for Exploration Geophysicists, The Hague, Abstr. vol., 158.
- 39 Stephan, A., Strack, K.-M., Eilenz, H.N., Bürger, P.J., 1988, *Interpretation von LOTEM-Messungen im Bereich der Halterner Sande*, in: Haak, V., Homilius, J. (Hrsg.), Prot. 12. Koll. Elektromagnetische Tiefenforschung, Königstein, NlfB., 259-271.
- 40 Hördt, A., Strack, K.-M., Wolfgram, P.A., Vozoff, K., 1988, *Joint inversion of LOTEM and MT data*, IX. International Workshop on Electromagnetic Induction in the Earth and Moon, Sochi, USSR.
- 41 Strack, K.-M., Hanstein, T., Wolfgram, P.A., Vozoff, K., 1988, *Can we resolve resistive layers with LOTEM?*, IX. International Workshop on Electromagnetic Induction in the Earth and Moon, Sochi, USSR, Abstr. vol., 71.
- 42 Petry, H., Strack, K.-M., Vozoff, K., 1988, *Inversion of LOTEM data*, in: Vogel, A., Gorenflo, R., Kummer, B., Ofoegbu, C.O. (eds.), *Inverse modeling in exploration geophysics*, Proceedings of the 6th International Mathematical Geophysics Seminar held at the Free University of Berlin, Feb. 3-6, Vieweg, 145-159.
- 43 LOTEM-Arbeitsgruppe (Wolfgram, P., Bürger, P., Eilenz, H., Hanstein, T., Kötz, A., Petry, H., Stephan, A., Strack, K.-M.), 1989, *LOTEM-Messungen an der KTB-Lokation*, in: Bram, K. (Hrsg.), KTB-Report 12-88,

153-167.

- 44 Karmann, R., Matzander, U., Rossow, J.R., Seara, M.J., Strack, K.-M., Wolfgram, P.A., 1989, *Frontier technologies for hydrocarbon exploration. deep transient electromagnetic soundings (DTEM)*. Beijing '89 International Symposium of Exploration Geophysics, Beijing, PRC.
- 45 Stephan, A., Bürger, P.J., Strack, K.-M., 1989, *Long-Offset transient EM measurements north of the Ruhr District, F.R. Germany*, 51st Annual Meeting, European Association for Exploration Geophysicists, Berlin, Abstract vol.,
- 46 Rossow, J., Liu Guodong, Seara, J.L., Strack, K.-M., Wolfgram, P.A., Zhang Musheng, 1989, *Case histories of LOTEM soundings in lithospheric investigations*, presented at: Beijing '89 International Symposium of Exploration Geophysics, Beijing, PRC, June 19 – 23.
- 47 Kuth, Ch., Bürger, P.J., Büttgenbach, T., Neubauer, F.M., Richter, J.E.T., Schruth, P.K., Strack, K.-M., 1989, *Combined geophysical investigations on waste sites - two case histories in F.R.G.*, 51st Annual Meeting, European Association for Exploration Geophysicists, Berlin, Abstract vol.
- 48 LeRoux, C.L., Hanstein, T.H., deBeer, J.H., Strack, K.M., Kopie, P., Vozoff, Keeva, 1989, *LOTTEM and DC electrical investigations of a deep crustal conductor on the northern Kaapvaal boundary in R.S.A.*, 6th IAGA Assembly, Exceter
- 49 Hanstein, T., Le Roux, C.L., Strack, K.-M., 1990, *Investigations of LOTTEM-soundings to the lower crust and examination of robust stacking and smoothing techniques*, 52nd Annual Meeting, European Association for Exploration Geophysicists, Copenhagen, Abstract vol.,
- 50 Wolfgram, P.A., Seara, J.L., Strack, K.-M., 1990, *LOTTEM case histories in frontier areas of hydrocarbon exploration*, 52nd Annual Meeting, European Association for Exploration Geophysicists, Copenhagen, Abstract vol.
- 51 Strack, K.-M., Martin, W., Rüter, H., Speth, T., 1990, *A new multichannel deep transient electromagnetic system*, 52nd Annual Meeting, European Association for Exploration Geophysicists, Copenhagen, Abstract vol., 154.
- 52 Büttgenbach, T., Neubauer, F.M., Strack, K.-M., 1990, *DABACOS - A reference data base for physical properties of rocks*, paper P26, 52nd Annual Meeting, European Association for Exploration Geophysicists, Copenhagen, Abstract vol., 180.
- 53 Richter, J., Neubauer, F.M., Strack, K.-M., 1990, *Interactive 3D interpretation of borehole and surface gravity data - a case history from Northern Switzerland*, 52nd Annual Meeting, European Association for Exploration Geophysicists, Copenhagen, Abstract vol., 194.
- 54 Karlik, G., Strack, K.-M., 1990, *'ALL-TIME' scheinbare Widerstandskurven für LOTTEM*, in: Haak, V., Homilius, J. (Hrsg.), Prot. 13. Koll. Elektromagnetische Tiefenforschung, Hornburg, NlfB., 135-144.
- 55 Vozoff, K., Hördt, A., Kriegshäuser, B., Strack, K.-M., Wolfgram, P.A., 1990, *1D interpretation of 3D LOTTEM data*, 10th Workshop on Electromagnetic Induction in the Earth, Ensenada - Mexico, IUGG and IAGA, paper 8.2.
- 56 Wolfgram, P.A., Strack, K.-M., Casten, U., Gatto, H., Richter, J.E.T., 1990, *Interpretation of borehole gravity data in crystalline environment*, European Association for Exploration Geophysicists, 52nd Annual Meeting, Abstract vol., 406-407.

- 57 Hördt, A., Strack, K.-M., Vozoff, K., Wolfgram, P.A., 1990, *Case histories of joint inversion of LOTEM and MT data*, European Association for Exploration Geophysicists, 52nd Annual Meeting, Abstract vol., 204-205, paper P-60.
- 58 Wolfgram, P.A., Liu Gudong, Strack, K.-M., Vozoff, K., 1990, *LOTEM case histories in carbonate exploration*, Proc. of SEG/CPG Carbonate Exploration Workshop, Chengdu, PRC.
- 59 Le Roux, C.L., Hanstein, T. Strack, K.-M., 1990, *Deep crustal soundings using the LOTEM method*, 10th Workshop on Electromagnetic Induction in the Earth, Ensenada - Mexico, IUGG and IAGA, paper 8.8.
- 60 Strack, K.-M., Seara, J.L., Wolfgram, P.A., 1990, *LOTEM case histories in frontier areas of hydrocarbon exploration in Asia*, 60th Ann. Mtg. Soc. Explor. Geophys., Expanded abstracts, 495-497.
- 61 Hördt, A., Karlik, G., Strack, K.-M., Wolfgram, P.A., 1991, *Selected 3D LOTEM interpretation case histories in exploration situations*, European Association for Exploration Geophysicists, 53rd Annual Meeting.
- 62 Hördt, A., Kriegshäuser, B., Strack, K.-M., 1992, *Case histories of interpreting LOTEM sign reversals*, 54th Annual Meeting, European Association for Exploration Geophysicists, Paris, Abstract vol., 700-702.
- 63 Vozoff, K., Strack, K.-M., Ziolkowski, A.M., Wenzel, F., 1992, *New dimensions for seismic interpretation*, AAPG Intern. Conference and Exhibition, Sydney.
- 64 Hördt, A., Strack, K.-M., Vozoff, K., Wolfgram, 1992, *Resolving resistive layers using joint inversion of LOTEM and MT data*, in: Vogel, A., Gorenflo, R., Kummer, B., Ofoegbu, C.O. (eds.), *Inverse Modeling in Exploration Geophysicists*, Proceedings of the 8th International Mathematical Geophysics Seminar, Vieweg, 147-150.
- 65 Strack, K.-M., Vozoff, K., 1992, *Integrating Long-Offset transient electromagnetics (LOTEM) with seismic in an exploration environment*, Paris, Abstract vol., 426-427.
- 66 Ziolkowski, A.M., Peet, W., Strack, K.-M., Audrieux, P., Vozoff, K., 1992, *Structure, stratigraphy, fluid content and field procedures for seismic and EM*, Paris, Abstract vol., 424-425.
- 67 Strack, K.-M., Hördt, A., 1992, *Kombination von Seismik and Transient-Elektromagnetik (TEM) Zur Bestimmung tiefer Strukturen*, in: Dresen, L., Rüter, H., und Fertig, J. (EDS.), *Stratigraphie und Lithologie in der geophysikalischen Exploration*, 12. Mintrop Seminar, 159-186.
- 68 Kriegshäuser, B., Hördt, A., Stoyer, C.H., Strack, K.-M., 1992, *3-D LOTEM data interpretation in the Milford Valley, Utah, USA*, 11th Workshop on Electromagnetic Induction in the Earth, Wellington, paper 3.3.
- 69 Tabarovsky, L.A., Goldman, M.M., Rabinovich, M.B., Strack, K.-M., 1992, *2.5D modeling of transient electromagnetic fields*, 11th Workshop on Electromagnetic Induction in the Earth, Wellington, paper 5.10.
- 70 Engels, O.G., Strack, K.-M., 1992, *TEAMEX - A multichannel TEM acquisition system*, 11th Workshop on Electromagnetic Induction in the Earth, Wellington, paper 8.5.
- 71 Hördt, A., Strack, K.-M., 1992, *3-D interpretation case histories of LOTEM data*, 11th Workshop on Electromagnetic Induction in the Earth, Wellington, paper 9.14.
- 72 Mezzatesta, A., Fabris, A., Strack, K.-M., Tabarovsky, L., Tamarchenko, T., 1992, *The importance of using a priori information in inversion methods*, SPWLA Conference on Invasion and Permeability, Taos.

- 73 Vozoff, K., Strack, K.-M., Ziolkowski, A., Wenzel, F., 1992, *New Dimensions for Seismic Interpretation*, AAPG/PESA, Sydney.
- 74 Strack, K.-M., 1993, *11th Workshop on Electromagnetic Induction in the Earth*, The Leading Edge, 298.
- 75 Schönfelder, T., Hördt, A. (Köln), Strack, K.-M. (Houston), 1993, *Interpretation von LOTEM Daten bei anisotroper Leitfähigkeitsverteilung*, DGG-Tagung in Kiel.
- 76 Hördt, A. Strack, K.-M., Vozoff, K., Ziolkowski, A., 1993, *Resolving Electrical Anisotropy Using Long-Offset Transient Electromagnetics*, 55th Meeting and Technical Exhibition, European Association for Exploration Geophysicists, Norway, paper D021.
- 77 Hördt, A., Vozoff, K., Strack, K.-M., 1993, *Determination of Electrical Anisotropy with Long-Offset Transient Electromagnetics*, SEG 63rd Annual Meeting and International Exhibition, Paper Em 1.7
- 78 Vallas, H.A., Mezzatesta A., Strack, K.-M. 1993, *Resistivity-Log Inversion Using a Heterogeneous Artificial Neural Network*, SEG 63rd Annual Meeting and International Exhibition, Paper WS7.2
- 79 Payton, C.C., Eckard, M.H., Mezzatesta, A.G., and Strack, K.-M., 1994, *Joint Inversion of Galvanic and Induction Logging Measurements*, ADSPE US patent 126, 6th Abu Dhabi International Petroleum Exhibition and Conference, 75-84.
- 80 Tabarovsky, L.A., Cram, M.E., Tamarchenko, T.V., Strack, K.-M., and Zinger, B.S., 1994, *Through-Casing Resistivity (TCR) Physics, Resolution and 3-D Effects*: Presented at SPWLA, Thirty-Fifth Annual Logging Symposium, Paper TT.
- 81 Mezzatesta, A.G., Eckard, M.H., Payton, C.C., Strack, K.-M., and Tabarovsky, L.A., 1994, *Improved Resolution of Reservoir Parameters by Joint Use of Resistivity and Induction Tools*: Presented at SPWLA, Thirty-Fifth Annual Logging Symposium, Paper WW.
- 82 Mezzatesta, A.G., Payton, C.C., Strack, K.-M, and Tabarovsky, L.A., 1994, *Simultaneous Inversion of Galvanic and Induction Logging Measurements to Improve Resolution*: Presented at Latin American/ Caribbean Petroleum Engineering Conference, Buenos Aires, Argentina, SPE 26976, Abstract, 27-29.
- 83 Zinger, B.S., Strack, K.-M., and Tabarovsky, L.T., 1994, Modeling of electrical effects of borehole casing inhomogeneities: SEG Expanded Abstracts, Vol. 64, 399-402.
- 84 Eckard, M.H., Hanstein, T.H.K., and Strack, K.-M., 1994, Joint inversion of transient electromagnetic and direct current measurements: EAGE Extended abstracts, P125.
- 85 Hoerdt, A., and Strack, K.M., , 1994, Reservoir erkundung durch kombinienten Einsatz seismischer und elektromagnetischer Verfahren, In: Interpretationsstratgien in Exploration und Produktion, eds L Dresen, J Fertig, H Ruter & W Budach, DGMK, 99 – 122.
- 86 Singer, B. Sh., Fanini, O. Strack, K.-M., Tabarovsky, L.A. and Zhang, X., 1995, *Through-Casing Resistivity: 2-D and 3-D Distortions and Correction Techniques*, SPWLA 36th Annual Logging Symposium, Paris, France, paper PP.
- 87 Mezzatesta, A.G., Eckard, M. H., and Strack, K.-M., 1995, *Integrated 2-D Interpretation of Resistivity Logging Measurements by Inversion Methods*, SPWLA 36th Annual Logging Symposium, Paris, France, paper E.
- 88 Strack, K.-M., Fanini, O., Momii, S.T., Singer, B. Sh., Tabarovsky, L.A. and Vail, M.B., 1995, *Measuring formation resistivity from inside of metal casing*, EAGE 57th Conference and Technical Exhibition, B055,

Glasgow.

- 89 Mezzatesta, A. G., Eckard, M.H., Payton, C.C. and Strack, K.-M., 1995, *Integrated Interpretation of Galvanic and Induction Measurements by Inversion Methods*, SPE 29839, SPE Middle East Oil Show, Society of Petroleum Engineers, Inc., Bahrain.
- 90 Rabinovich, M.B., Tabarovsky, L.A., and Strack, K.-M., 1995, *Time Domain Electromagnetic Modeling in the Media with Smoothed Boundaries*, SEG/SPGF Rio de Janeiro, 656-659.
- 91 Mezzatesta, A.G., Eckard, E.H., and Strack, K.-M., 1995, *Consistent Interpretation of Galvanic and Induction Measurements by Joint Inversion Methods*, SPWLA Paris.
- 92 Mezzatesta, A.G., Payton, C.C., Tabarovsky, L.A., and Strack, K.-M., 1995, *Simultaneous Inversion of Galvanic and Induction Logging Measurements to Improve Resolution*. SPE 26976 Abstract.
- 93 B. Sh. Singer, O. Fanini, K.-M. Strack, L.A. Tabarovsky, and X. Zhang, 1995, *Measurement of Formation Resistivity Through Steel Casing*. SPE 30628 Abstract.
- 94 Tang, X. and Strack, K.-M., 1995, *Waveform inversion of seismic P-wave attenuation from borehole compressional wave logs*: EAGE 57th Conference and Technical Exhibition, P102, Glasgow.
- 95 Strack, K.-M., Fanini, O., Maurer, H.-M., Singer, B. S., Tabarovsky, L., 1996, *Measurement of Formation Resistivity Through a Metal Casing*. GeoArabia – Middle East Petroleum Geosciences. Abstract.
- 96 Frenkel, M., Beard, D., Mezzatesta, A.G., Strack, K.-M., 1996, *Rapid Well-Site 2-D Inversion of Full-Spectrum Array Induction Data*. SPE 36505. Abstract.
- 97 Frenkel, M.A., Mezzatesta, A.G., Strack, K.-M., 1996, *Improved Estimation of High-Resolution Formation Resistivities for Thin-Bed Analysis*. 38<sup>th</sup> Annual SPWLA, Houston. 1-14
- 98 Maurer, H.-M., Fanini, O., and Strack, K.-M., 1996, *GRI Pursues Goal of Commercial, Through-Casing Resistivity Measurement*. GRI TIPS.
- 99 Singer, B.S., Strack, Kurt-Martin, 1997, *New Aspects of Through-Casing Resistivity Theory*. SEG Abstracts. 282-285.
- 100 Strack, K.-M., Mezzatesta, A.G., Frenkel, M., 1997, *Joint Inversion of Resistivity Logs: Limits and Possibilities*. OTC Paper 609-618.
- 101 Yu, G., Civarolo, M., Painchaud, S., Tetzlaff, D., Strack, K.-M., 1997, *Analog Modeling for Acoustic Image Logging Tool*. SPWLA 38<sup>th</sup> Annual Logging Symposium, June 15-18, Houston, paper CCC.
- 102 Frenkel, M.A., Mezzatesta, A. G., and Strack, K.-M., 1997, *Enhanced Interpretation of Russian and Old Electrical Resistivity Logs Using Modeling and Inversion Methods*: Presented at the SPE Annual Technical Conference and Exhibition. SPE 38688, 1-10.
- 103 Strack, K.-M., Frenkel, M. A., and Mezzatesta, A. G. 1997. *The Quest for Rt: Limits and Possibilities*: Presented at the Third Well Logging Symposium of Japan, paper M.
- 104 Frenkel, M.A., Mezzatesta, A. G., and Strack, K.-M., 1997, *Improved estimation of high-resolution formation resistivities for thin-bed analysis*: Presented at the Thirty-Eighth Annual Logging Symposium of Houston, paper CC.
- 105 Strack, K.-M., Frenkel, M. A., and Mezzatesta, A. G. 1998, *Limits and possibilities determining Rt with array*

- resistivity logging tools*: Presented at the GEO'98 third Middle East Geosciences Conference & Exhibition, Bahrain, GeoArabia, **3**, 155-156.
- 106 Itskovich, G. B., Mezzatesta, A. G., Strack, K.-M., and Tabarovsky, L. A., 1998, *High-definition lateral log – resistivity device*: Presented at the SPWLA Thirty-Ninth Annual Logging Symposium, 26-29, paper V.
- 107 Yu, G., Painchaud, S., and Strack, K.-M., 1998, *Analog and numerical modeling for borehole resistivity-and acoustic-imaging tools*: Presented at SPWLA thirty-ninth Annual Logging Symposium, 26-29, paper kkk.
- 108 Strack, K.-M., Fanini, O. N., Mezzatesta, A. G., and Tabarovsky, L. A., 1998, *Recent advances in borehole resistivity logging*: Presented at EAGE Sixtieth Conference and Technical Exhibition, Leipzig, Germany, paper 10-55.
- 109 Strack, K.-M., Frenkel, M.A., Koelman, J.M.V.A., Mezzatesta, A.G., and Talabani, S., 1998, *New array resistivity measurements: Physics and ME case histories*, 8<sup>th</sup> Abu Dhabi International Petroleum Exhibition and Conference, Oct. 1998.
- 110 Strack, K.-M., Fanini, O.N., Mezzatesta, A.G., and Tabarovsky, L.A., 1998, *Recent Advances in Borehole Resistivity Logging*, Presented at annual ASEG Conference, Hobart, Australia.
- 111 Strack, K.-M., and Kriegshaeuser, B., 1999, *Introduction to borehole anisotropy*, Presented at SPWLA 40-th Annual Symposium, Anisotropy workshop. (invited)
- 112 Strack, K.-M., 1999, *Advances in electrical logging tools for reservoir characterization, workshop: Advances in Exploration Geoelectromagnetism*, 61-th EAGE Conference & Technical Exhibition, Helsinki, Finland. (invited)
- 113 Strack, K.M., Chundurur, R., Frenkel, M.A., Mezzatesta, A.G., and Zhang, Z., 1999, *Well log inversion review: Limits and possibilities*, SEG Summer Research Workshop, Taos (invited paper).
- 114 Strack, K.-M., Merry, H., Walter, L., and Ayres, W., 2000, *A quantum leap in borehole seismic data acquisition*, 3<sup>rd</sup> Conference & Exposition on Petroleum Geophysics, SPG/SEG, New Delhi (invited paper).
- 115 Strack, K.-M., and Guarino, G., 2000, *Exploration with LOTEM under basalt cover*, 3<sup>rd</sup> Conference & Exposition on Petroleum Geophysics, SPG/SEG, New Delhi (invited paper).
- 116 Morrisson, H.F., Wilt, M., and Strack, K.-M., 2000, *Borehole Electromagnetics: Theory & Applications*, 3<sup>rd</sup> Conference & Exposition on Petroleum Geophysics, SPG/SEG, New Delhi (invited paper).
- 117 Majer, E.L., and Strack, K.-M., 2000, *Single Well geophysics: Issues and applications*, Soc. Expl. Geophys. Annual meeting, Calgary, Invited paper in 'Recent Advances and Road ahead session'
- 118 Strack, K.-M., and Pandey, P.B., 2000, *Exploration with Lotem under basalt*, Soc. Expl. Geophys. Annual meeting, Calgary, *Advances in Electromagnetics workshop*.
- 119 Strack, K.M., & Majer, E.L., 2001, *Real time fluid imaging with an integrated single well seismic/EM system*, DGMK Tagungsbericht 2001-2, ISBN 3-931850-77-3, 179-183.
- 120 Strack, K.M., & Majer, E.L., 2001, *The need for a single well EM system*, EAGE/SEG summer research workshop, Pau France.
- 121 Pandey, P.B., & Strack., K.M., 2002, *Exploration with Lotem under Basalt cover in India*, SPG 4<sup>th</sup> conference

- on petroleum geophysics, 182-187.
- 122 Zerilli, A, Buehneemann, J., Henke, Ch. Krieger, M., Mueller, Ch., & Strack, K.M., 2002, Bringing complex structure into focus – A novel integrated approach, SEG invited talk recent Advances and Road Ahead session.
- 123 Buehneemann, J., Henke, Ch. Krieger, M., Mueller, Ch., Strack, K.M., and Zerilli, A., 2002, Bringing complex structure into focus – A novel integrated approach, Soc. Expl. Geophys. Expanded Abstracts.
- 124 Majer, E.L., and Strack, K.M., 2003, Real time fluid imaging with an integrated single well seismic/EM system, SEG Drilling Decision invited paper.
- 125 Thomsen, L., Strack, K.M., Brady, J.L., and Biegert, E., 2003, A Novel Approach to 4D: Full Field Density Monitoring, SEG 4D time lapse rock properties workshop paper.
- 126 Mirotchnik, K., Kryuchkov, S., and Strack, K., 2004, A novel methods to determine NMR petrophysical parameters from drill cuttings, Transactions of the SPWLA vol. 45, paper MM
- 127 MacGregor, L., Strack, K.M., and Wu, X, 2005, Marine EM in the Gulf of Mexico: Advances & Outlook, AGU/SEG joint session at the AGU meeting in New Orleans.
- 128 Chopra, S, Strack, K.M., Esmersoy, C., and Allegar, N, 2007, Introduction to this special issue on CSEM, The Leading Edge, 26, 323-325.
- 129 Wang, Z, Martinez, Y., Strack, K., and Yu, G., 2007, Applications of NMR mud logging technology in China, SPWLA transactions, 48th Ann. Logging Symposium, paper X.
- 130 Hanstein, T., Helwig, S.L., Yu, G., Strack, K.M., Blaschek, R., Hördt, A., 2007, The effect of a horizontal thin axial metallic conductor in Marine EM, 4th International Symposium on Three-Dimensional Electromagnetics, Freiberg, Germany, September 27–30.
- 131 Strack, K.M., and Petrov, A.A., 2007, Marine time domain controlled source electromagnetics (tCSEM™): another way to illuminate marine, reservoirs, Proc. 8th China International Geo-Electromagnetic Workshop, Jingzhou, China, paper 3, 9-14.
- 132 Gunnarsson, A., Tulinius, H., Yu, G., Strack, K.M., He, L.F., and He, Z.X., 2007, Mapping geothermal reservoir using wide frequency range 2D MT survey in Theistareykir, Iceland, Proc. 8th China International Geo-Electromagnetic Workshop, Jingzhou, China, 340-348.
- 133 Thomsen, L., Meaux, D., Li, S., Weiss, C. Sharma, A., Allegar, N., and Strack, K., 2007, Novel marine electromagnetics: from deep into shallow water, SEG annual meeting, San Antonio, Recent Advances and Road Ahead session.
- 134 Tulinius, H., Ádám, L., Strack, K.M., Yu, G., and He, L.F., 2008, Geothermal exploration using integrated 2-D MT and gravity surveys in Hungary, 70th EAGE Conference & Exhibition, Rome, Italy.
- 135 Allegar, N.A., Strack, K.M., Mittet, R., and Petrov, A., 2008, Marine time domain CSEM - The first two years of experience, 70th EAGE Conference & Exhibition, Rome, Italy
- 136 Yu, G., Gunnarsson, A., Tulinius, H., Strack, K.M., He, L.F., and He, Z.X., 2008, Mapping geothermal reservoir using broadband 2-D MT survey in Theistareykir, Iceland, 70th EAGE Conference & Exhibition, Rome, Italy

- 137 Strack, K.-M., Allegar, N., Yu, G., Tulinius, H., Adam., Gunnarsson, A., He, L., and He, Z., 2008, Mapping geothermal reservoirs using broadband 2-D MT and gravity data, 70th EAGE Conference & Exhibition, Rome, Italy.
- 138 Yu, G., Laszlo, A., Allegar, N., Halldorsdottir, H., Lanfang, H., Zhanxiangh., Zuzhi, Lacasse, C., Lacasse, C., Pobergsdottir, I, Strack, K., Tulinus, H., Xie, X., 2008, Exploring for geothermal reservoirs using broadband 2-D MT and gravity survey in Hungary: 19th Workshop on Electromagnetic Induction in the Earth, Beijing, China, 396-401.
- 139 Yu, G., Allegar, N., Gunnarsson, A., Lanfang, H., Zhanxiang H., Strack, K., Tulinus, H., 2008, Characterizing a geothermal reservoir using broadband 2-d MT survey in Theistareykik, Iceland: 19th Workshop on Electromagnetic Induction in the Earth, Beijing, China, 385-390
- 140 Strack, K.-M., Allegar, N., Ellingsrud, S., 2008, Marine time domain CSEM: an emerging technology: 19th Workshop on Electromagnetic Induction in the Earth, Beijing, China, 736-740.
- 141 Allegar, N., Strack, K.-M., Thomsen, L., and Yu, G., 2008, Reservoir monitoring with CSEM: SEG, Las Vegas, Annual Meeting-Workshop-10 "Unconventional time-lapse geophysics."
- 142 Ellingsrud, S., and Strack, K.-M., 2008, CSEM: a fast growing technology: SEG, Las Vegas, Annual Meeting - "Recent Advances and the Road Ahead
- 143 Strack, K.-M., Allegar, N., and Ellingsrud, S., 2008, Marine time domain CSEM: an emerging technology: SEG, Las Vegas, Annual Meeting, Extended Abstracts, 653-656.
- 144 Tulinus, H., Laszlo, A., Haldorsdottir, H., Yu, G., Strack, K.-M., Allegar, N., He, L., and He., Z, 2008, Exploring for geothermal reservoirs using broadband 2-D MT and gravity in Hungary: SEG, Las Vegas, Annual Meeting, Extended Abstracts, 1147-1151.
- 145 Yu, G., Strack, K., Allegar, N., Gunnarsson, A., Landsvirkjun, Tulinius, H., He, L., and He, Z., 2008, Characterizing a geothermal reservoir using broadband 2-D MT survey in Theistareikir, Iceland: SEG, Las Vegas, Annual Meeting, Extended Abstracts, 1152-1156.
- 146 Helwig, S, L., Strack, K., Hanstein, T., Yu, G., Allegar, N., Krugliak Z., and Kalish, A., 2008, tCSEM™ instrumentation in oil and gas exploration, Geophysical Research Abstracts 10.
- 147 Hu, W., Yan, L., Su, Z., Zheng, R., and Strack, K.M., 2008, Array TEM Sounding and Application for reservoir monitoring: SEG, Las Vegas, Annual Meeting, Extended Abstracts, 634-638.
- 148 Yu, G., He, Z. X., Hu, Z. Z., Porbergsdóttir, I. M., Strack, K.-M., and Tulinius, H., 2009, Geothermal exploration using MT and gravity techniques at Szentlőrinc area in Hungary: SEG Int-1 Exposition and Annual Meeting, Houston.
- 149 Yu, G., Gunnarsson, A., He, Z., and Tulinius, H., 2010, Characterizing a geothermal reservoir using broadband 2-D MT survey in Theystareykir, Iceland: Proceedings World Geothermal Congress 2010, Bali, Indonesia.
- 150 Strack, K.-M., 2010, Marine Time Domain Electromagnetics: 8th International Conference & Exposition, Hyderabad.
- 151 Strack, K.-M., 2010, Advances in Electromagnetics for Reservoir Monitoring: 8th International Conference & Exposition, Hyderabad.



- 152 Strack, K.-M., 2010, Advances in electromagnetics for reservoir monitoring: Geohorizons, June 2010, 15-18.
- 153 Strack K.-M., 2010, Using electromagnetics for reservoir monitoring, Invited presentation Robinosn-Treitl GSH Spring Symposium.
- 154 Yu, G., Strack, K.M., Tulinius, H., Porbergsottir, I.M., Adam, L., Hu, Z.Z., and He. Z.X., 2010, Integrated MT/Gravity geothermal exploration in Hungary: A success story, 21 ASEG Conference and Exhibition, Sydney.
- 155 Strack, K., Tulinius, H., Vozoff, K., and Yu, G., 2010, Case histories of using magnetotellurics for geothermal exploration, 21 ASEG Conference and Exhibition, Sydney.
- 156 Strack, K.M., 2010, Electromagnetics in E&P: Where are we going from here?, SEG annual meeting, Denver, Recent Advances and Road Ahead session.
- 157 Colombo, D., Dasgupta, S., Strack, K.M, and Yu, G, 2010, Feasibility study of surface-to-borehole CSEM for oil-water fluid substitution in Ghawar field, Saudi Arabia, Geo 2010, poster paper.
- 158 Strack, K. M., 2011, Advances in integrated EM for geothermal exploration: University of Southern California.
- 159 Strack. K. M., 2011, Advances in electromagnetics for hydrocarbon applications: Thailand Society of Exploration Geophysicists.
- 160 Strack, K. M., 2011, Elektromagnetische Methoden bei der Energie-Exploration und -Produktion: DGG (German Geophysical Society) Annual Meeting Public Evening Talk.
- 161 Strack, K.M., and A.A. Aziz, 2012, Full Field Array Electromagnetics: Advanced EM from the surface to the borehole, exploration to reservoir monitoring, Soc. Petr. Geosc. Annual Meeting, India
- 162 Strack, K.M., and A.A. Aziz, 2012, Full Field Array Electromagnetics: Advanced EM from the surface to the borehole, exploration to reservoir monitoring, Austr. Soc. Expl. Geophys., Natural Source Electromagnetics Forum.
- 163 Strack, K.M., and A.A. Aziz, 2012, Full field array electromagnetics: A tool kit for 3D applications to unconventional resources, GSH –SEG Spring Symposium, Houston.
- 164 Egbert, G., N. Meqbel, and K. Strack, 2013, Cabled marine magnetotellurics: Denser data at lower cost and higher information content. SEG Technical Program Expanded Abstracts 2013: pp. 840-844.
- 165 Hanstein, T., J. Jiang, and K.M. Strack, 2013, Integrated induction coil and fluxgate magnetometers for EM analysis and monitoring, Poster NS43A-1800, AGU fall meeting 2013 in San Francisco, California.
- 166 Hanstein, T., K.M. Strack, and J. Jiang, , 2013, Combination of induction coil and fluxgate magnetometer for MT Sensor analysis and monitoring 25<sup>th</sup> Schmucker-Weidelt-Colloquium, September 23-27, 2013.
- 167 Strack, K.M., 2013, Advances in Electromagnetic Methods for Hydrocarbon Applications, SPG Kochi 2013 keynote presentation.
- 168 Strack, K.-M., T., Hanstein, and S. Davydycheva, 2014, Future applications of CSEM: Shales and reservoir monitoring, EAGE 2014 pre-convention workshop abstract (poster).

169 Strack, K-M., S. Davydycheva, and Z. Jiang, 2015, Integrated electromagnetics for unconventionalals & reservoir monitoring, geophysical Society of Houston, Spring Symposium 2015.

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