

# Curriculum Vitae di Aldo Vesnaver



## Dati anagrafici e personali

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## Titoli di studio

1990: Dottorato di Ricerca in Geofisica della Litosfera e Geodinamica, conseguito presso l'Università di Trieste (Italia).

1983: Laurea in Fisica (con 110/110 e lode), conseguita presso l'Università di Trieste.

## Percorso professionale

Ottobre 2018 – oggi: Ricercatore indipendente, affiliato all'OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Trieste, [www.inogs.it](http://www.inogs.it)).

Ottobre 2014 – Ottobre 2018: Professore Ordinario (Chair Professor) in Geoscienze del Petrolio al “*Petroleum Institute*” di Abu Dhabi, ora confluito nella Khalifa University of Science and Technology (Emirati Arabi Uniti, [www.ku.ac.ae](http://www.ku.ac.ae)).

Luglio 2013 – Luglio 2017: Membro docente del Consorzio di Dottorato “*Earth Sciences and Fluid Mechanics*” condotto da Università di Trieste, OGS e ICTP (*International Centre of Theoretical Physics*) di Miramare.

Settembre 2010 – Agosto 2013: Professore Ordinario (Saudi Aramco Chair Professor) in Sismica d'Esplorazione alla “*King Fahd University of Petroleum and Minerals*” (Dhahran, Arabia Saudita, [www.kfupm.edu.sa](http://www.kfupm.edu.sa)).

Dicembre 2006 – Maggio 2015: Dirigente di Ricerca presso l’OGS.

Dicembre 2001 – Dicembre 2006: Specialista Geofisico presso la compagnia petrolifera Saudi Aramco, nel suo Centro di Ricerche Avanzate (Dhahran, Arabia Saudita, [www.saudiaramco.com](http://www.saudiaramco.com)).

Giugno 1983 – Dicembre 2001: Ricercatore e Primo Ricercatore presso l’OGS con vari ruoli, tra i quali Analista Sismico, Team Leader and Vice-Direttore di Dipartimento.

Ottobre 1979 – Febbraio 1981: Assistente per l’interpretazione sismica e mappatura per la compagnia “*Applied Geophysics*” a Trieste e Milano.

## **Pubblicazioni**

L’elenco delle pubblicazioni è riportato in fondo al presente CV, suddivise tra articoli su riviste internazionali o libri e su atti di convegni internazionali, soggette in entrambi i casi a *peer review*. Sono omesse pubblicazioni in italiano o in atti di convegni nazionali.

Parametri bibliometrici:

|            |                        |               |
|------------|------------------------|---------------|
| Citazioni: | 1492 (Google Scholar), | 973 (Scopus). |
| H-Index:   | 19 (Google Scholar),   | 15 (Scopus).  |

## **Brevetto**

Dasgupta S. e Vesnaver A. (Saudi Aramco), United States Patent n. 6868037, “Use of drill bit energy for tomographic modelling of near surface layers”.

## **Organizzazione di Workshops e Convegni internazionali**

2017 – SEG Workshop su “*Full-Waveform Inversion*” (Manama, Bahrain).

2016 – SEG Workshop su “*Multi-Physics Imaging*” (Dubai, United Arab Emirates).

2015 – SEG Workshop su “*Full-Waveform Inversion*” (Abu Dhabi, United Arab Emirates).

2014 – Meeting Annuale EAGE, workshop intitolato: “*Unconventional Resources*” (Amsterdam, The Netherlands).

2011 – Joint EAGE-SEG Summer Workshop, intitolato: “*Towards a Full Integration from Geosciences to Reservoir Simulation*” (Trieste, Italia).

2009 - Meeting Annuale EAGE, workshop intitolato: “*Integrating geophysics and reservoir engineering*” (Amsterdam, Olanda).

2008 - Meeting Annuale EAGE, workshop intitolato: “*A view from space - Near-surface characterization from remote sensing*” (Roma, Italia).

2005 - Meeting Annuale EAGE, workshop intitolato: “*Challenges and recent advances for geophysical data modelling in the Arabian Peninsula*” (Madrid, Spagna).

2005 – Saudi Aramco-PDO workshop intitolato: “*Geophysical reservoir monitoring forum in the Arabian Peninsula*” (Manama, Bahrain).

2004 – Rappresentante del SEG nel Comitato Organizzatore di Geo 2004 (Manama, Bahrain).

2002 – Rappresentante del SEG nel Comitato Organizzatore di Geo 2002 (Manama, Bahrain).

### **Esperienza Editoriale**

2017: Guest Editor del Numero Speciale di “*Interpretation*” su “Multi-physics imaging for exploration and reservoir monitoring”, collegato ad un Workshop del SEG su tale tema.

2016 - 2018: Guest Editor del Numero Speciale di “*Geophysical Prospecting*” su “Broadband Seismic”, collegato ad alcuni Workshops EAGE su tale tema.

Giugno 2013: Guest Editor del Numero Speciale di “*Geophysical Prospecting*” su “New frontiers in VSP and Passive Seismic”, collegato al Workshop EAGE in Amsterdam (Olanda) su tale tema.

Novembre 2010: Guest Editor del Numero Speciale di “*Geophysical Prospecting*” about “Passive Seismic”, related to the EAGE Workshop in Limassol (Cyprus).

Giugno 2008 – present: Associate Editor of the EAGE journal “*Geophysical Prospecting*”.

Novembre 2006: Guest Editor del Numero Speciale di “*Geophysical Prospecting*” intitolato: “Near-surface challenges and advances in the Arabian Peninsula”.

Giugno 2006 – Giugno 2008: **Editor-in-Chief** del giornale dell'EAGE “*Geophysical Prospecting*”.

Marzo 2005: Guest Editor del Numero Speciale di “*Geophysical Prospecting*” intitolato: “Time-lapse seismic”.

Marzo 2003 – Giugno 2006: Editore Associato e Deputy del giornale dell'EAGE “*Geophysical Prospecting*”.

Giugno 2003 – Giugno 2006: Editore Associato del giornale del SEG “*Geophysics*”.

2003 – 2008: Collaboratore della rubrica “*GAC Spotlight*” nel giornale del SEG “*The Leading Edge*”.

1997 – 2005: Recensore di libri per il giornale del SEG “*The Leading Edge*”.

1985 – 1995: Assistant Editor del giornale italiano di geofisica “*Bollettino di Geofisica Teorica ed Applicata*”.

### **Esperienza accademica e didattica**

Ottobre 2014 – Ottobre 2018: Professore Ordinario (*Chair Professor in Petroleum Geoscience*) al Petroleum Institute di Abu Dhabi (Emirati Arabi Uniti), ora divenuto parte della Khalifa University.

2014 – 2018: Membro di Comitati di 6 Tesi Master al Petroleum Institute.

Settembre 2013 – Ottobre 2018: Membro docente del Consorzio di Dottorato ESFM (“*Earth Sciences and Fluid Mechanics*”) tra l’Università di Trieste, OGS e ICTP (*International Centre of Theoretical Physics*) di Miramare (Trieste).

Settembre 2010 – Agosto 2013: Professore Ordinario (*Saudi Aramco Chair Professor in Seismic Exploration*) alla “*King Fahd University of Petroleum and Minerals*” (KFUPM, Dhahran, Arabia Saudita).

2012 – 2013: Membro di Comitati di 3 Tesi Master al KFUPM.

Dicembre 2012: Primo Opponente in un Comitato di Dottorato di Ricerca presso l’Università di Trondheim (Norvegia).

Marzo 2012: Primo Opponente in un Comitato di Dottorato di Ricerca presso l’Università di Delft (Olanda).

Febbraio 2009 – 2010: Tutore di Tesi Master e studenti di Dottorato in geofisica delle Università di Trieste e Padova.

2005: Seminari all’Università KFUPM sull’elaborazione di dati sismici e temi avanzati di ricerca geofisica (Dhahran, Arabia Saudita).

1995 – 2001: Tutore di Tesi Master e studenti di Dottorato in geofisica delle Università di Trieste, Milano, Pisa, e borsisti internazionali dell’“*International Centre of Theoretical Physics*” di Miramare.

1999: Tutore di borsisti dell’ENI (Ente Nazionale Idrocarburi).

1991 – 1992: Professore all’ “*International Maritime Organization*”, tenendo corsi sull’acquisizione di dati geofisici in mare (Trieste).

Marzo 1983 – Maggio 1992: Assistente didattico all’Università di Trieste, tenendo parte del corso di Geofisica Applicata, ed assistendo da un punto di vista scientifico varie tesi Master e di Dottorato di Ricerca.

## Attività presso Associazioni geofisiche internazionali

Giugno - Luglio 2021: Candidato Vice-Presidente del SEG ([www.seg.org](http://www.seg.org)).

Ottobre 2018 – Ottobre 2019: Chairman del Comitato SEG Membership.

**Giugno 2018: Socio Onorario dell'EAGE (*European Association of Geoscientists and Engineers*, [www.eage.org](http://www.eage.org)).**

Novembre 2016: Co-organizzatore del Secondo “Middle-East EAGE Boot-Camp” nella zona di Al Dhaid (Emirati Arabi Uniti).

2015 – 2018: Membro del Comitato Esecutivo dell’“*Emirates Society of Geoscientists*” (Abu Dhabi).

Novembre 2015: Co-organizzatore del Primo “Middle-East EAGE Boot-Camp” nella zona di Al Ain (Emirati Arabi Uniti).

Marzo 2015: Invited Speaker al Meeting Mensile dell’“*Emirates Society of Geoscientists*” (Abu Dhabi, [www.esgae.org](http://www.esgae.org)).

Agosto 2014 – SEG Honorary Lecturer alla “5<sup>th</sup> International Geoscience Student Conference” in Nizhny Novgorod (Russia, [www.seg.org](http://www.seg.org)).

Novembre 2013 – Istruttore EAGE in un corso di una giornata intera sull’integrazione di sismica attiva e passiva (Mosca, Russia, [www.eage.org](http://www.eage.org)).

Novembre 2012 – 2018: Membro dello Steering Committee del Consiglio SEG.

Febbraio 2012: Invited Speaker ed Istruttore di un Corso di una giornata intera per la “*Society of Petroleum Geophysicists*” (India), nell’ambito della sua “Biennial International Conference and Exposition” (Hyderabad).

Dicembre 2011: Invited Speaker al Meeting Mensile della Dhahran Geoscience Society (Dhahran, Arabia Saudita).

Ottobre 2010 – Ottobre 2012: Presidente della Sezione Italiana EAGE-SEG ([www.eageseg.org](http://www.eageseg.org)).

January – Maggio 2010: SEG Honorary Lecturer per l’Europa (Society of Exploration Geophysicists).

2010 – 2014: Membro del Comitato “Bylaws and Constitution” del SEG.

**2010: Socio a vita (Lifetime Membership Award) del SEG.**

2009 – 2011: Chairman del Comitato Ricerca dell’EAGE.

2009 – 2018: Membro del Comitato Ricerca dell’EAGE.

Novembre 2008 – 2009: Chairman del Comitato SEG Membership.

Ottobre 2008 – 2009: Vice Presidente della Sezione Italiana EAGE-SEG.

Ottobre 2007 – 2010: Membro del Comitato SEG “*Strategic Finance*”.

Ottobre 2007 – 2012: Membro del Comitato SEG “*Governance Review*”.

Ottobre 2007 – 2014: Organizzatore del SEG “*Challenge Bowl*” Italiano.

2006 – 2014: Membro del Comitato Esecutivo della Sezione Italiana EAGE-SEG.

2005 – 2010: Membro del Comitato EAGE Awards.  
2004 – 2008: Membro del Comitato Ricerca dell'EAGE.  
2004 – 2006: Chairman del Comitato SEG “*Global Affairs*”.  
2002 – 2005: Membro del Comitato Esecutivo della “*Dhahran Geoscience Society*” (Arabia Saudita).  
**2001: Co-Fondatore della Sezione Italiana EAGE-SEG.**  
1999 – 2001: Coordinatore Regionale per l'Europa nel Comitato SEG “*Global Affairs*”.  
1984 – oggi: Membro dell'EAGE ([www.eage.org](http://www.eage.org)).  
1981 – oggi: Membro del SEG ([www.seg.org](http://www.seg.org)).  
2014 – 2018: Membro del SPE ([www.spe.org](http://www.spe.org)).

## **Progetti**

2016-2017: Co-Investigator in un progetto sull'inversione del campo d'onde, finanziato dalla Saudi Aramco e dal KAUST (King Abdallah University of Science and Technology, Arabia Saudita).  
2016: Consulente per il Ministero norvegese della Ricerca per il Programma Nazionale PETROMACS (Oslo, Norvegia).  
2015-2016: Responsabile Scientifico di due progetti di ricerca per il “*Petroleum Institute Research Centre*” (Abu Dhabi, Emirati Arabi Uniti), sull'integrazione di dati sismici attivi e passivi, e sull'integrazione di dati sismici con altri dati geofisici, per ottenere un modello della terra unificato.  
2013-2014: Consulente per il Ministero norvegese della Ricerca per i Programmi Nazionali PETROMACS e PETROSENTR (Oslo, Norvegia).  
2013: Consulente per il KACST (King Abdulaziz City for Science and Technology, Riad, Arabia Saudita) per un progetto per la Saudi Aramco sulla Tomografia Sismica Attiva e Passiva.  
2012: Responsabile Scientifico di Progetto sulla Tomografia Geomeccanica, finanziato dalla Saudi Aramco (Dhahran, Arabia Saudita), in cooperazione con la Stanford University (Stati Uniti).  
2011: Responsabile Scientifico di un Progetto su sensori acustici non accoppiati, finanziato dal KACST (King Abdulaziz City for Science and Technology, Riad, Arabia Saudita).  
2010-2013: Responsabile Scientifico di un Progetto sulla Sismica Attiva e Passiva, finanziato dalla King Fahd University of Petroleum and Minerals nel Programma dei Gruppi di Ricerca (Dhahran, Arabia Saudita).  
2010-2012: Responsabile Scientifico di un Progetto sulla Sismica Passiva, finanziato dalla King Fahd University of Petroleum and Minerals nel Programma Fast-Track (Dhahran, Arabia Saudita).

2005 – 2006: Responsabile di parte di un grande progetto della compagnia petrolifera Saudi Aramco per un sito pilota di studio della microsismicità nella Provincia Orientale dell'Arabia Saudita.

2003 – 2004: Co-Responsabile Scientifico di uno studio di fattibilità per la Saudi Aramco sul monitoraggio di giacimenti nell' Arabia Saudita Centrale.

2001 – 2003: Referente scientifico nel gruppo di ricerca e sviluppo della Saudi Aramco per i problemi geofisici di superficie in Arabia Saudita.

2001: Project Leader for 3D tomographic imaging of the Visund Field (North Sea) for the oil company Norsk Hydro (Norway).

2000: Task Leader per la tomografia 3D in un rilievo 3D “*seismic-while-drilling*” per la produzione di energia geotermica in Toscana per la compagnia elettrica ERGA-Enel.

1998 – 2001: Responsabile Scientifico del Progetto 4D-TAIL, finanziato dall'Unione Europea (contratto n. OG/129/97), per il monitoraggio dei giacimenti con la tomografia e l'inversione AVO in 3D, con partners quali Total (Francia) e Norsk Hydro (Norvegia).

1999: Task Leader del Progetto MICA per lo studio degli acquiferi usando sismica ad alta risoluzione, finanziato dall'Unione Europea.

1998: Consulente per la compagnia petrolifera Fina per un progetto sull' inversione tomografica di dati sismici a grande angolo (Bruxelles, Belgio).

1997: Task Leader per la tomografia 3D in un rilievo 3D congiunto “*seismic-while-drilling*” con uno sismico attivo per la produzione nell'Italia Meridionale per la compagnia inglese Enterprise Oil.

1997 – 1999: Task Leader per l’“*imaging*” 3D del Progetto INDEX, finanziato dall'Unione Europea (nel Programma Esprit), per un'efficiente visualizzazione di oggetti 3D complessi, con la partecipazione di British Aerospace e Daimler-Benz.

1996 – 1999: Responsabile Scientifico del Progetto TO-3D, finanziato dall'Unione Europea nel Programma Termie, per la validazione di un codice di tomografia 3D con griglie adattive irregolari, in collaborazione con le compagnie petrolifere OMV e Norsk Hydro, e con gli istituti di ricerca TNO (Olanda) e DMT (Germania).

1995 – 1998: Task Leader di un progetto finanziato dall'Unione Europea nel Programma Essi-Esprit, per la conversione di un codice per la tomografia 3D dal FORTRAN 77 al FORTRAN 90 in ambiente di calcolo parallelo e distribuito.

1994 – 1997: Task Leader del progetto 3D-ASI finanziato dall'Unione Europea nel Programma Joule, per l'inversione tomografica 3D dei tempi d'arrivo e la migrazione sismica.

1990 – 1992: Responsabile Scientifico di un progetto per la compagnia italiana Eni-Agip, per lo sviluppo di *software* per l'inversione 3D dei tempi d'arrivo.

1988 – 1989: Vice-Responsabile Scientifico di un progetto per la compagnia italiana Eni-Agip, per l'inversione 2D di anomalie nella velocità di *stack*.

1986 – 1989: Vice-Responsabile Scientifico di un progetto finanziato dall'Unione Europea nel Programma Joule per l'inversione di anomalie del segnale sismico.

1986 – 1987: Responsabile Scientifico di un progetto per lo sviluppo di *software* per il recupero d'ampiezza del segnale sismico, finanziato dal Consiglio Nazionale della Ricerca (CNR).



# Lista delle pubblicazioni di Aldo Vesnaver

## Libri e giornali internazionali soggetti a “peer review”

1. Vesnaver A. and Baradello L., 2023. A workflow for processing monochannel Chirp and Boomer surveys. *Geophysical Prospecting* (in press), doi: 10.1111/1365-2478.13389.
2. Vesnaver A. and Baradello L., 2022. Tomographic joint inversion of direct arrivals, primaries and multiples for monochannel marine surveys. *Geosciences* **12**, 219, doi: 10.3390/geosciences12060219.
3. Vesnaver A. and Baradello L., 2022. Shallow velocity estimation by multiples for monochannel Boomer surveys, *Applied Sciences* **12**, 1-13, doi: 10.3390/app12063046.
4. Lin R., Böhm G., Carcione J.M. and Vesnaver, A., 2022. Erratum for the paper: “Broadband Q factor imaging by seismic tomography and instantaneous frequency”, *Geophysical Journal International* **229**, 898-899, doi: 10.1093/gji/ggab526.
5. Vesnaver A., Busetti M. and Baradello L., 2021, Chirp data processing for fluid flow detection at the Gulf of Trieste (Adriatic Sea). *Boll. Geof. Ocean.* 62, 3, 365-386, doi: 10.4430/bgo00361.
6. Vesnaver A., Böhm G., Busetti M., Dal Cin M. and Zgur F., 2021, Broadband Q-factor imaging for geofluid detection in the Gulf of Trieste (northern Adriatic Sea). *Frontiers in Earth Science* **8**, doi: 10.3389/feart.2021.640194.
7. Denich E., Vesnaver A. and Baradello L., 2021. Amplitude recovery and deconvolution of Chirp and Boomer data for marine geology and offshore engineering, *Energies* 14, 1-14, doi: 10.3390/en14185704.
8. Bruno P. P. G. and Vesnaver A., 2021, Groundwater characterization in arid regions using seismic and gravity attributes. *Frontiers in Earth Science* **8**, 1-20, doi: 10.3389/feart.2020.575019.
9. Baradello L., Battaglia F. and Vesnaver A., 2021, Fast method to transform chirp envelope data into pseudo-seismic data. *Marine Geophysical Research* **42**, 14, doi: 10.1007/s11001-021-09436-y.
10. Vesnaver A., Böhm G., Cance Ph., Carcione J. and Gei D., 2020, Windowless Q-factor tomography by the instantaneous frequency. *Geophysical Prospecting* **68**, 2611-2636, doi: 10.1111/1365-2478.13020.

11. Vesnaver A. and Lin R., 2019, Broadband Q-factor tomography for reservoir monitoring. *Journal of Applied Geophysics* **165**, 1-15, doi: 10.1016/j.jappgeo.2019.04.004.
12. Vesnaver A., 2018, Near Surface Geophysics, a Snapshot. *Journal of Sustainable Energy Engineering* **6** (3), 173-185, doi: 10.7569/JSEE.2018.629506.
13. Lin R., Vesnaver A., Böhm G, and Carcione J. M., 2018. Broad-band viscoacoustic Q-factor imaging by seismic tomography and instantaneous frequency. *Geophysical Journal International* **214**, 672-686, doi: 10.1093/gji/ggy168.
14. Carcione J. M., Bagaini C., Ba J., Wang E. and Vesnaver A., 2018. Waves at fluid-solid interfaces: explicit versus implicit formulation of the boundary condition. *Geophysical Journal International* **215**, 37-48, doi: 10.1093/gji/ggy262.
15. Vesnaver A., 2018. Introduction to the special section about broadband seismic acquisition and processing. *Geophysical Prospecting* **66**, 920-921, doi: 10.1111/1365-2478-12644.
16. Huang Y., Abubakar A., Colombo D., Gao K., Kim J. H., Mantovani M., Meju M., Shin C., Vesnaver A., Yan R., Yang M., Yu P. and Zhang L., 2018. Introduction to special section: Multiphysics imaging for exploration and reservoir monitoring. *Interpretation* **6**, 3, SGi-SGii, doi: 10.1190/int-2018-0713-spseintro.1.
17. Staněk F., Eisner L. and Vesnaver A., 2017. Theoretical assessment of the full\_moment\_tensor resolvability for receiver arrays used in microseismic monitoring. *Acta Geodynamica et Geomaterialia* **14**, 233-240, doi: 10.13168/AGG.2017.0006.
18. Vesnaver A., 2017, Instantaneous frequency and phase without unwrapping. *Geophysics* **82**, F1-F7, doi: 10.1190/geo2016-0185.1.
19. Poggiagliolmi E. and Vesnaver A., 2014, Instantaneous phase and frequency derived without user-defined parameters. *Geophysical Journal International* **199**, 1544-1553, doi: 10.1093/gji/ggu352.
20. Alfaraj, M. N. and Vesnaver A., 2014, Vertical seismic profiling and microseismicity frontiers. *Geophysical Prospecting* **62**, 675-678, doi: 10.1111/1365-2478.12143.
21. Vesnaver A., Da Col F., Jervis M., Kaka S. and Nieto D., 2014, On the use of microtremors for hydrocarbon detection. *Geophysical Prospecting* **62**, 897-909, doi: 10.1111/1365-2478.12140.
22. Vesnaver A., 2013, Seismic tomography from the old to the new millennium. *Arabian Journal of Science and Engineering* **38**, 1-9, doi: 10.1007/s13369-012-0380-5.

23. Vesnaver A. and Urpi L., 2013, Full 3D relocation and tomographic inversion of the 1977-2008 earthquakes in North-eastern Italy: a feasibility study. *Annals of Geophysics* **56**, 1, R0110, doi: 10.4401/ag-5760.
24. Menanno G., Vesnaver A., Jervis M., 2013, Borehole receiver orientation using a 3D velocity model. *Geophysical Prospecting* **61**, sup. 1, 215-230, doi: 10.1111/j.1365-2478.2012.01106.x.
25. Nieto D., L. Baradello, S. I. Kaka and A. Vesnaver, 2011, Microtremors, a near-surface phenomenon? *Journal of Seismic Exploration* **20**, 379-398.
26. Vesnaver A., L. Lovisa and G. Böhm, 2010, Joint 3D processing of active and passive seismic data: *Geophysical Prospecting* **58**, 831-844, doi: 10.1111/j.1365-2478.2010.00868.x.
27. Eisner L., Vesnaver A., Gaucher E. and Campman X. 2010. Introduction. *Geophysical Prospecting* **58**, 725-726, doi: 10.1111/j.1365-2478.2010.00908.x.
28. Vesnaver A., Bridle R., Ley R. and Liner C. 2009. Painting the near surface by geology, geophysics and satellites. *Geophysics* **74**, B61-B69, doi: 10.1190/1.3097886.
29. Vesnaver A. 2008. Yardsticks for industrial tomography. *Geophysical Prospecting* **56**, 457-465, doi: 10.1111/j.1365-2478.00690.x.
30. Vesnaver A., Broadhead M. K. and Bellaci I. J. 2006. Geophysical reservoir monitoring feasibility study in a Central Saudi Arabian oil field. *GeoArabia* **11**, 63-72.
31. Vesnaver A. 2006. Near-surface challenges and advances in the Arabian Peninsula. *Geophysical Prospecting* **54**, 663-664.
32. Ley R., Adolfs W., Bridle R., Al-Homaili M., Vesnaver A. and Ras P. 2006. Ground viscosity and stiffness measurements for near surface seismic velocity. *Geophysical Prospecting* **54**, 751-762, doi: 10.1111/j.1365-2478.2006.00574.x.
33. Vesnaver A., Bridle R., Henry B., Ley R., Rowe R. and Wylie A. 2006. Geostatistical integration of near-surface geophysical data. *Geophysical Prospecting* **54**, 763-777, doi: 10.1111/j.1365-2478.2006.00573.x.
34. Keho T., Dasgupta S. and Vesnaver A. 2005. Geophysical Reservoir Monitoring Forum in the Arabian Peninsula. *The Leading Edge* **24**, 824-825, doi: 10.1190/1.2032257.

35. Keho, T.H., Dasgupta, S.N. and Vesnaver, A.L. 2005. Summary of the Geophysical Reservoir Monitoring Forum, Arabian Peninsula. *GeoArabia* **10** (3), 181-191.
36. Vesnaver A. and Diephuis G. 2005. Introduction - Special Issue on Time Lapse. *Geophysical Prospecting* **53**, 1.
37. Vesnaver A. 2004. The near-surface information gap for time and depth imaging. *Geophysical Prospecting* **52**, 653-661, doi: 10.1111/j.1365-2478.2004.00445.x.
38. Vesnaver A., Accaino F., Böhm G., Madrussani G., Pajchel J., Rossi G. and Dal Moro G. 2003. Time-lapse tomography. *Geophysics* **68**, 815-823, doi: 10.1190/1.1581034.
39. Böhm G., Madrussani G., Rossi G. and Vesnaver A. 2001. Ray footprint and redundancy in seismic tomography. *Journal of Seismic Exploration* **10**, 285-302.
40. Rossi G., Corubolo P., Böhm 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, doi: 10.1046/j.0263-5046.2001.00198.x.
41. Rossi G. and Vesnaver A. 2001. Joint 3D traveltime inversion of P, S and converted waves. *Journal of Computational Acoustics* **9**, 1407-1416, doi: 10.1142/S0218396X01001492.
42. Rossi G., Vesnaver A. and Petersen S. 2001. Anisotropy detection by tomography and polarisation analysis in a 3D three-component VSP. *First Break* **19**, 191-200, doi: 10.1046/j.0263-5046.2001.00300.x.
43. G. Rossi, G. Madrussani, A. Vesnaver 2000. Adaptive 3D joint inversion of direct, reflected and refracted arrivals. In: *Experimental Acoustic Inversion Methods for Exploration of the Shallow Water Environment*, Springer, (Caiti *et al.* ed), 235-248, ISBN 978-94-011-4112-3.
44. Böhm G., Galuppo P. and Vesnaver A. 2000. 3D adaptive tomography by Delaunay triangles and Voronoi polygons. *Geophysical Prospecting* **48**, 723-744, doi: 10.1046/j.1365-2478.2000.00211.x.
45. Vesnaver A. and Böhm G. 2000. Staggered or adapted grids for seismic tomography? *The Leading Edge* **19**, 944-950, doi: 10.1190/1.1438762.
46. Vesnaver A., Böhm G., Madrussani G., Rossi G. and Granser H. 2000. Depth imaging and velocity calibration by 3D adaptive tomography. *First Break* **18**, 303-312, doi: 10.1046/j.1365-2397.2000.00093.x.

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