

## Sierd A.P.L. CLOETINGH

### Utrecht University Distinguished Professor

Utrecht University, Faculty of Geosciences,  
PO Box 80.021, 3508 TA Utrecht,  
The Netherlands

Office: Budapestlaan 6, room 2.09, Utrecht,  
The Netherlands

tel: +31-30-2537314 (office)  
em: [sierd.cloetingh@uu.nl](mailto:sierd.cloetingh@uu.nl)  
web: <http://www.uu.nl/staff/SAPLCloetingh>

Born: 20 August 1950, Groningen



### Education

- BSc degree geology with physics and mathematics, University of Groningen (supervisors Professors Ph.Kuenen and L.M.J.U. van Straaten): March 1972.
- MSc degree geophysics with minors in structural geology and numerical mathematics (cum laude; supervisor Prof. dr. N.J. Vlaar), University of Utrecht: January 1977.
- PhD degree geophysics University of Utrecht (Thesis: Evolution of passive margins and initiation of subduction zones; Promotor: Prof. dr. N.J. Vlaar): December 1982.

### Research interests

Solid earth geophysics, tectonics, intraplate deformation, lithospheric dynamics, sedimentary basin evolution, sea level change

### International functions

- Member Lithosphere Panel, International Ocean Drilling Project, 1988-1992
- Chairman of the International Lithosphere Programme Task Force, "Origin of Sedimentary Basins", 1990-2001
- Coordinator, European Programme on Basin Modelling, 1990-1995
- Liaison, Tectonics Panel, International Ocean Drilling Project, 1991-1992
- Chairman of the Scientific Committee, European Union of Geosciences Conference EUG VII, Strasbourg, 1993
- Member Steering Committee International Association of Structural/Tectonic Geologists (IASTG), 1993-2001
- Vice-President of the European Union of Geosciences EUG, 1993-1995
- Chairman Scientific Council EUROBASIN Research School, 1996-2006
- Member Scientific Advisory Board of the BRGM Geofrance3D program, 1998-2000
- Member Scientific Council GEOMARE-SUD Marine Research Institute Italian CNR, 1998-2003
- President European Geophysical Society, 1998-2000
- Chairman Earth and Cosmic Sciences Section, Academia Europaea, 1999-2008
- Member Council Academia Europaea, 1999-2008
- President International Lithosphere Programme, 2004-PRESENT
- Coordinator TOPO-EUROPE Research initiative, 2005-PRESENT
- Member Scientific Committee of the French Geological Survey BRGM, 2006-2013
- Member Scientific Council Institut Français du Pétrole, 2006-PRESENT
- Chairman Scientific Committee ESF EUROCORES TOPO-EUROPE, 2008-2013
- Vice President Academia Europaea 2008-2014
- Member of the ERC Scientific Council, 2009-2015
- Member of Steering Committee European Research Council Executive Agency (ERCEA), 2011-PRESENT
- President Academia Europaea 2014- PRESENT
- Vice-president ERC, 2015- PRESENT

### Editorships scientific journals

- European Editor of "Tectonics", published by the American Geophysical Union and the European Geophysical Society, 1992-1996
- Editor, "Global and Planetary Change", 1989-PRESENT
- Associate Editor, "Journal of Geophysical Research" published by the American Geophysical Union", 1985-1991
- Member Editorial Board, "Sedimentary Geology", 1988-2004

- Member Editorial Board "Tectonophysics", 1992-PRESENT
- Member Editorial Board "Geologica Carpathica", 1992-2002
- Member Editorial Board "Geology", published by Geol. Soc. America, 2000-2004
- Member Editorial Board "Bull. Geological Society Italia", 2000-PRESENT
- Member Editorial Board "Episodes", 2001-PRESENT
- Member Editorial Board "Zeitschrift der Deutschen Gesellschaft für Geowissenschaften", 2006-PRESENT
- Chairman Editorial Board Stephan Mueller Special Publication Series, European Geosciences Union, 2002-PRESENT

#### **Honours and awards**

- Member Academia Europaea, 1993
- Distinguished Lecturer American Association of Petroleum Geologists, 1993
- Foreign Member of the Russian Academy of Natural Sciences, 1995
- Leopold von Buch Medal, German Geological Society, 1995
- Golden Badge Award European Geophysical Society, 1996
- Professor Honoris Causa of Bucharest University, Romania, 1996
- Member Netherlands Society for Sciences, 1997
- Sackler Professor at the Institute of Geophysics and Planetary Sciences, Tel Aviv University, Israel, 1997
- Member Royal Netherlands Academy of Arts and Sciences, 1998
- Doctor Honoris Causa of University of Rennes, France, 1998
- Honorary Member of the Hungarian Geophysical Society, 1999
- Professor and Doctor Honoris Causa, Eötvös University of Budapest, Hungary, 2001
- Fellow American Geophysical Union, 2002
- Doctor Honoris Causa of University of Salzburg, Austria, 2002
- Foreign Member Royal Norwegian Academy of Sciences, 2005
- Corresponding Member Heidelberg Academy of Sciences, 2005
- Chevalier dans l'Ordre national de la Légion d'Honneur, 2005
- Stephan Mueller Medal, European Geosciences Union, 2006
- Foreign Member Royal Danish Academy of Sciences, 2006
- Royal Netherlands Academy of Sciences Distinguished Professor, 2006
- Honorary Fellow, Geological Society of America, 2006
- Van Waterschot van der Gracht Medal, Royal Netherlands Geological and Mining Society, 2007
- Honorary Professor, Dublin Institute for Advanced Studies, 2007
- Visiting Professor, University Pierre et Marie Curie, Paris, 2007
- Blaustein Visiting Professor, Stanford University, 2007
- Foreign member Bavarian Academy of Sciences, 2008
- Visiting Professor, University Pierre et Marie Curie, 2008
- Visiting Professor, ETH Zürich, 2009
- Visiting Professor, IFP Rueil-Malmaison, 2009
- Alexander von Humboldt Research Award, 2010
- Member German National Academy for Technical Sciences Acatech, 2010
- Doctor Honoris Causa, University of Potsdam, 2011
- Arthur Holmes Medal and honorary membership of the European Geosciences Union, 2013
- Knight in the Royal Order of the Netherlands Lion, 2014

#### **University functions and national responsibilities**

- 1977-1982: Junior lecturer Geophysics, department of Geophysics, University of Utrecht
- 1983-1986: Senior lecturer Geophysics, department of Geophysics, University of Utrecht
- 1986-1988: Associate Professor of Tectonophysics, department of Geophysics, Utrecht
- 1988-2011: Professor of Tectonics, VU University Amsterdam
- 2001-PRESENT: Professor of Tectonics of Sedimentary Basin Tectonics, Delft University of Technology
- 1988-PRESENT: supervisor (promotor) of 74 successfully completed PhD theses
- 1990-1993: Chairman department of Sedimentary Geology, VU University Amsterdam
- 1999-2012: Member Board of Directors Netherlands Research Centre for Integrated Solid Earth Sciences (ISES)
- 1991-1994: Chairman Science committee of the Faculty of Earth Sciences, VU University Amsterdam
- 1992-1994: Chairman bèta-sciences committee, VU University Amsterdam
- 1992-1993: Member committee Endogene Processes, Earth Science Foundation (AWON), Netherlands Organisation for Scientific Research (NWO)

- 1992-1993: Co-coordinator theme "Geodynamics", Earth Science Foundation (AWON), Netherlands Organisation for Scientific Research (NWO)
- 1995-2001: Member Board on Earth and Life Sciences (ALW), Netherlands Organisation for Scientific Research (NWO)
- 1996-2002: Coordinator Netherlands Environmental Earth System Dynamics Institute (NEESDI), Netherlands Organisation for Scientific Research (NWO)
- 1997-PRESENT: Member Scientific Advisory Board Netherlands Institute for Applied Geosciences (TNO)
- 2002-2009: Member Scientific Council Royal Netherlands Meteorological Institute (KNMI)
- 2005-2009: Member Scientific Advisory Board Delft Cluster
- 2012-2015: Professor of Tectonics, Utrecht University
- 2015-PRESENT: Utrecht University Distinguished Professor

## List of publications

336. Calignano, E., Sokoutis, D., Willingshofer, E., Gueydan, F., CLOETINGH, S., 2015. Asymmetric vs. symmetric deep lithospheric architecture of intra-plate continental orogens. *Earth and Planetary Science Letters*, v. 424, p. 38-50, doi: 10.1016/j.epsl.2015.05.022.
335. Tilita, M., Scheck-Wenderoth, M., Matenco, L., CLOETINGH, S., 2015. Modelling the coupling between salt kinematics and subsidence evolution: Inferences for the Miocene evolution of the Transylvanian Basin. *Tectonophysics*. doi: 10.1016/j.tecto.2015.07.021
334. Rabineau, M., CLOETINGH, S., Kuroda, J., Aslanian, D., Droxler, A., Gorini, C., Garcia-Castellanos, D., Moscariello, A., Burov, E., Sierro, F., Lirer, F., Roure, F., Pezard, P.A., Matenco, L., Hello, Y., Mart, Y., Camerlenghi, A., Tripathi, A. and the GOLD and DREAM Working Groups. 2015. Probing connections between deep earth and surface processes in a land-locked ocean basin transformed into a giant saline basin: the Mediterranean GOLD project. *Marine and Petroleum Geology*. doi: 10.1016/j.marpetgeo.2015.03.018
333. Koulakov, I., Jakovlev, A., Zabelina, I., Roure, F., CLOETINGH, S., El Khrepy, S., Al-Arifi, N., 2015. Subduction or delamination beneath Apennines? Evidence from regional tomography. *Solid Earth*, 6, 669-679, doi: 10.5194/se-6-669-2015
332. Calignano, E., Sokoutis, D., Willingshofer, E., Gueydan, F., CLOETINGH, S., 2015. Strain localization at the margins of strong lithospheric domains: Insights from analog models. *Tectonics*. v. 34, p. 396-412, doi: 10.1002/2014TC003756.
331. CLOETINGH, S. and Haq, B. 2015. Inherited Landscapes and Sea Level Change. *Science* 347. 1258375 (2015). DOI : 10.1126/science.1258375
330. Mulder, E.F.J. de, Eder, W., Mogessie, A., Ahmed, E.A.E., Da Costa, P.Y.D, Yabi, I., Mathu, E., Muhongo, S., CLOETINGH, S., 2014. Geoscience outreach in Africa, 2007-2013. *Journal of African Earth Sciences*, 99(2), 743-750.
329. Philippon, M., Willingshofer, E., Sokoutis, D., Corti, G., Sani, F., Bonini, M., CLOETINGH, S. 2014. Slip re-orientation in oblique rifts. *Geology*, v. 43, p. 147-150, doi: 10.1130/G36208.1
328. Kaban, M., Tesauro, M., Mooney, W., CLOETINGH, S. 2014. Density, temperature, and composition of the North-American lithosphere – New insights from a joint analysis of seismic, gravity, and mineral physics data: 1. Density structure of the crust and upper mantle. *Geochemistry, Geophysics, Geosystems (G3)*, v. 15, p. 4781- 4807.
327. Tesauro, M., Kaban, M., Mooney, W., CLOETINGH, S. 2014. Density, temperature, and composition of the North-American lithosphere – New insights from a joint analysis of seismic, gravity, and mineral physics data: 2. Thermal and compositional model of the upper mantle. *Geochemistry, Geophysics, Geosystems (G3)*, v. 15, p. 4808-4830.
326. Stange, K.M., Van Balen, R.T., Garcia-Castellanos, D., CLOETINGH, S. 2014. Numerical modelling of Quaternary terrace staircase formation in the Ebro foreland basin, southern Pyrenees, NE Iberia. *Basin Research*, 1-23, doi: 10.1111/bre.12103
325. Philippon M., Corti G., Sani F., Bonini M., Balestrieri M-L., Molin P., Willingshofer E., Sokoutis D., CLOETINGH S., 2014. Evolution, distribution and characteristics of rifting in southern Ethiopia. *Tectonics*, 33(4), 485-508.
324. CLOETINGH, S., Ziegler, P.A., Beekman, F., Burov, E.B., Garcia-Castellanos, D., Matenco, L., 2014. Tectonic models for the evolution of sedimentary basins. *Treatise on Geophysics*, 2nd edition.
323. Tesauro, M., Kaban, M., Mooney, W., CLOETINGH, S. 2014. NACr14: A 3D model for the crustal structure of the North American Continent. *Tectonophysics*, v. 631, p. 65-86. DOI: 10.1016/j.tecto.2014.04.016
322. Munteanu, I., Willingshofer, E., Matenco, L., Sokoutis, D., CLOETINGH, S., 2014. Far-field contractional polarity changes in models and nature, *Earth and Planetary Science Letters*. 395, p.101-115.
321. CLOETINGH S., Willet S., Torsvik, T., Werner, S., (eds.), 2013, TOPO Europe III, *Tectono-physics*, v. 602, 381 pp.

320. Willingshofer, E., Sokoutis, D., Luth, S.W., Beekman, F., CLOETINGH, S. 2013. Subduction and deformation of the continental lithosphere in response to plate and crust-mantle coupling. *Geology*, v. 41, p. 1239-1242.
319. CLOETINGH, S., Burov, E., Matenco, L., Beekman, F., Roure, F., Ziegler, P.A., 2013. The Moho in extensional tectonic settings: Insights from thermo-mechanical models. *Tectonophysics*, v. 609, p. 558-604.
318. CLOETINGH, S., Willett, S. 2013. TOPO-EUROPE: Understanding of the coupling between the deep Earth and continental topography. *Tectonophysics*, v. 602, p. 1-14.
317. Munteanu, I., Willingshofer, E., Sokoutis, D., Matenco, L., Dinu, C., CLOETINGH, S. 2013. Transfer of deformation in back-arc basins with a laterally variable rheology: Constraints from analogue modeling of the Balkanides-Western Black Sea inversion. *Tectonophysics*, v. 602, p. 223-236.
316. Hardebol, N., Beekman, F., CLOETINGH, S. 2013. Strong lateral strength contrasts in the mantle lithosphere of continents: A case study from the hot SW Canadian Cordillera. *Tectonophysics*, v. 602, p. 87-105.
315. Stolk, W., Kaban, M., Beekman, F., Tesauero, M., Mooney, W., CLOETINGH, S. 2013. High resolution regional crustal models from irregularly distributed data: Application to Asia and adjacent areas. *Tectonophysics*, v. 602, p. 55-68.
314. CLOETINGH, S., Burov, E.B., Francois, T., 2013. Thermo-mechanical controls on intraplate deformation and the role of plume-folding interactions in continental topography. *Gondwana Research*, v. 24, p. 815-837.
313. Tiliță, M., Matenco, L., Dinu, C., Ionescu, L., CLOETINGH, S. 2013. Understanding the kinematic evolution and génesis of a back-arc continental "sag" basin: The Neogene evolution of the Transylvanian Basin. *Tectonophysics*, v. 602, p. 237-258.
312. Smit, J.H.W., CLOETINGH, S.A.P.L., Burov, E., Tesauero, M., Sokoutis, D., Kaban, M., 2013. Interference of lithospheric folding in western Central Asia by simultaneous Indian and Arabian plate indentation. *Tectonophysics*, v. 602, p. 176-193.
311. Tesauero, M., Kaban, M.K., CLOETINGH, S. 2013. Global model for the lithospheric strength and effective elastic thickness, *Tectonophysics*, v. 602, p. 78-86.
310. Ter Borgh, M., Vasiliev, J., Stoica, M., Knežević, S., Matenco, L., Krijgsman, W., Rundić, L., CLOETINGH, S. 2013. The isolation of the Pannonian basin (Central Paratethys): New constraints from magnetostratigraphy and biostratigraphy. *Global and Planetary Change*, v. 103, p. 99-118
309. Delvaux, D., CLOETINGH, S., Beekman, F., Sokoutis, D., Burov, E., Buslov, M.M., Abdrakhmatov, K.E., 2013. Basin evolution in a folding lithosphere: Altai-Sayan and Tien Shan belts in Central Asia. *Tectonophysics*, v. 602, p. 194-222, doi: 10.1016/j.tecto.2013.01.010
308. CLOETINGH, S. and Willett, S., 2013. Linking deep Earth and surface processes. *EOS. Trans. Am. Geophys. Un.*, v. 94, p. 53-54.
307. Luth, S., Willingshofer, E., Sokoutis, D., CLOETINGH, S., 2013. Does subduction polarity change below the Alps? Inferences from Analogue Modelling. *Tectonophysics*, v.582, p. 140-161, doi:10.1016/j.tecto.2012.09.028.
306. Holm, P., Goodsite, M., CLOETINGH, S., Agnoletti, M., Moldan, B., Lang, D., Leemans, R., Oerstroem, J., Pardo Buendia, M., Pohl, W., Scholz, R.W., Sors, A., Vanheusden, B., Yusoff, K., Zondervan, R., 2013. Collaboration between the natural, social and human sciences in Global Change Research. *Environ. Sci.Policy*, <http://dx.doi.org/10.1016/j.envsci.2012.11.010>
305. Fernandez-Lozano, J., Sokoutis, D., Willingshofer, E., Dombrádi, E., Munoz-Martin, A., De Vicente, G., CLOETINGH, S., 2012. Integrated gravity and topography analysis in analog models: intra-plate deformation in Iberia, *Tectonics*, vol. 31, TC6005, doi: 10.1029/2012TC003122.
304. Tesauero, M., Kaban, M.K., CLOETINGH, S. 2012. Global strength and elastic thickness of the lithosphere. *Global Planet. Change*, v.90-91, p. 51-57.
303. Tesauero, M., Audet, C., Kaban, M., Bürgmann, C. and CLOETINGH, S. 2012. The effective elastic thickness of the continental lithosphere: Comparison between rheological and inverse approaches. *G-Cubed. Geochemistry Geophysics Geosystems*, v. 13, Q09001, 18 pp., 2012. doi:10.1029/2012GC004162

302. CLOETINGH, S., Tibaldi, A., Burov, E. 2012. Coupled Deep Earth and surface processes and their impact on geohazards. *Global Plan. Change*, v. 90-91, p. 1-19. DOI: 10.1016/j.gloplacha.2012.01.010
301. Beglinger, S.E., van Wees, J-D., CLOETINGH, S., Doust, H., 2012. Tectonic subsidence history and source rock maturation in the Campos Basin, Brazil. *Petroleum Geoscience*. v.18, p. 153-172. doi: 10.1144/1354-079310-049
300. Beglinger, S.E., Corver, M.P., Doust, H., Kennedy Thurmond, A., CLOETINGH, S., 2012. A New Approach of Relating Petroleum System & Play Development to Basin Evolution: An Application to the Con-jugate Margin Gabon Coastal- and Almada-Camamu Basins. *AAPG Bulletin*, v. 96, p. 953-982. doi: 10.1306/10271111040
299. Beglinger, S.E., Doust, H., CLOETINGH, S., 2012. Relating Petroleum System and Play Development to Basin Evolution: Brazilian South Atlantic Margin. *Petroleum Geoscience*, 18, p. 315-336. Doi:10.1144/1354-079311-022.
298. Guillou-Frottier, L., Burov, E., CLOETINGH, S., Le Goff, E., Deschamps, Y., Huet, B., Bouchot, V., 2012. Plume-induced dynamic instabilities near cratonic blocks: Implications for P-T-t paths and metallogeny. *Global Planet. Change*, 90-91 (2012) 37-50
297. Munteanu, I., Matenco, L., Dinu, C., CLOETINGH, S., 2012. Effects of large sea-level variations in connected basins: the Dacian - Black Sea system of the Eastern Paratethys. *Bas. Res.*, 1-15, doi : 10.1111/j.1365-2117.2012.00541.x
296. Ismail-Zadeh, A., Matenco, L., Radulian, M., CLOETINGH, S., Panza, G., 2012. Geodynamic and intermediate-depth seismicity in Vrancea (the south-eastern Carpathians): Current State-of-the-Art, *Tectonophysics*, 530-531, 50-79, doi: 10.1016/j.tecto.2012.01.016.
295. Beglinger, S.E., Doust, H., CLOETINGH, S., 2012. Relating petroleum system and play development to basin evolution: West African South Atlantic basins. *Mar. Petrol. Geol.*, 30, p. 1-25.
294. Garcia-Castellanos, D., CLOETINGH, S., 2012. Modeling the interaction between lithospheric and surface processes in foreland basins. In: *Tectonics of Sedimentary Basins: Recent Advances*, C. Busby & A. Azor (eds.). Blackwell Pub. Ltd., p. 152-181.
293. Munteanu, I., Matenco, L., Dinu, C., CLOETINGH, S., 2011. Kinematics of back-arc inversion of the Western Black Sea Basin. *Tectonics* 30, TC5004, doi: 10.1029/2011tc002865
292. Tesauro, M., Burov, E.B., Kaban, M.K., CLOETINGH, S.A.P.L., 2011. Ductile crustal flow in Europe's lithosphere. *Earth. Planet. Sci. Letts*, 312, p. 254-265.
291. Dupré S., CLOETINGH S., Bertotti G., 2011. Structure of the Gabon Margin from integrated seismic reflection and gravity data. *Tectonophysics*, v. 506, p. 31-45
290. CLOETINGH S. and Bunge, H-P., 2011. *TOPO-EUROPE and Cyberinfrastructure: Quantifying Coupled Deep Earth – Surface Processes in 4D*. Cambridge University Press, p.292-336.
289. CLOETINGH S., Burov E.B., 2011. Lithospheric folding and sedimentary basin evolution: a review and analysis of formation mechanisms. *Basin Research*, v. 23, p. 257-290.
288. Corver M., Doust H., Wees van J.-D., CLOETINGH S., 2011. Source-rock maturation characteristics of symmetric and asymmetric grabens inferred from integrated analogue and numerical modeling: The southern Viking Graben (North Sea). *Marine and Petroleum Geology*, v. 28, p. 921-935.
287. Răbăgia T., Matenco L., CLOETINGH S., 2011. The interplay between eustacy, tectonics and surface processes during the growth of a fault-related structure as derived from sequence stratigraphy: The Govora – Ocnele Mari antiformal, South Carpathians. *Tectonophysics*, v. 502, p. 196-215.
286. Leever K., Matenco L., Garcia-Castellanos D., CLOETINGH S., 2011. The evolution of the Danube gateway between Central and Eastern Paratethys (SE Europe): Insight from numerical modelling of the causes and effects of connectivity between basins and its expression in the sedimentary record. *Tectonophysics*, v. 502, p. 175-195.
285. Jarosinski M., Beekman F., Matenco L., CLOETINGH S., 2011. Mechanics of basin inversion: Finite element modelling of the Pannonian Basin System. *Tectonophysics*, v. 502, p. 121-145.

284. Vicente de G., CLOETINGH S., Wees van J.-D., Cunha P., 2011. Tectonic classification of Cenozoic Iberian foreland basins. *Tectonophysics*, v. 502, p. 38-61.
283. CLOETINGH S., Gallart J., Vicente de G., Matenco L., 2011. TOPO-EUROPE: From Iberia to the Carpathians and analogues. *Tectonophysics* v. 502, p. 1-27.
282. Fernandez-Lozano J., Sokoutis D., Willingshofer E., CLOETINGH S. & De Vicente G., 2011. Cenozoic deformation of Iberia: a model for intraplate mountain building and basin development based on analogue modelling. *Tectonics*, v.30, p. 1-25, TC1001.
281. Muñoz-Martín A., De Vicente G., Fernández-Lozano J., CLOETINGH S., Willingshofer E., Sokoutis D., & Beekman F., 2010. Spectral analysis of the gravity and elevation along the western Africa–Eurasia plate tectonic limit: Continental versus oceanic lithospheric folding signals. *Tectonophysics*, v. 495, p. 298-314.
280. Matenco L., Krézsek C., Merten S., Schmid S., CLOETINGH S., Andriessen P., 2010. Characteristics of collisional orogens with low topographic build-up: an example from the Carpathians. *Terra Nova* v. 22, p. 155-165.
279. Kaban M., Tesauro S., CLOETINGH S., 2010. An integrated gravity model for Europe's crust and upper mantle. *Earth and Planetary Science Letters*, v. 296, p.195-209.
278. Gouiza M., Bertotti G., Hafid M. and CLOETINGH,S., 2010. Kinematic and thermal evolution of the Moroccan rifted continental margin: Doukkala-High Atlas Transect. *Tectonics*, v. 29, TC5008.
277. Smit J., Brun J.-P., CLOETINGH S., Ben-Avraham Z., 2010. The rift-like structure and asymmetry of the Dead Sea Fault. *Earth and Planetary Science Letters*, v. 290, p. 74-82.
276. Burov E.B. and CLOETINGH S., 2010. Plume-like upper mantle instabilities drive subduction initiation. *Geophysical Research Letters*, v. 37, L03309.
275. Leever K., Matenco L., Răbăgia T., CLOETINGH S., Krijgsman W., Stoica M., 2010. Messinian sea level fall in the Dacic Basin (Eastern Paratethys): paleogeographic implications from seismic sequence stratigraphy. *Terra Nova*, v. 22, p. 12-17.
274. Luth S., Willingshofer E., Sokoutis D. and CLOETINGH S., 2010. Analogue modelling of continental collision: Influence of plate coupling on mantle lithosphere subduction, crustal deformation and surface topography. *Tectonophysics*, v. 484, p. 87-102.
273. Dombrádi E., Sokoutis D., Bada G., CLOETINGH S., Horváth F, 2010. Modelling recent deformation of the Pannonian lithosphere: Lithospheric folding and tectonic topography. *Tectonophysics*, v. 484, p. 103-118.
272. Roure F., CLOETINGH S., Scheck-Wenderoth M., Ziegler, P.A., 2010. Achievements and challenges in sedimentary basin dynamics: A review. In: *New Frontiers in Integrated Solid Earth Sciences* (Ed. by S. Cloetingh and J. Negendank). Springer-Verlag, p. 145-233.
271. Tesauro M., Kaban M.K., CLOETINGH S., 2010. Thermal and rheological model of the European lithosphere. In: *New Frontiers in Integrated Solid Earth Sciences* (Ed. by S. Cloetingh and J. Negendank). Springer-Verlag, p. 71-101.
270. Tesauro M., Kaban M., CLOETINGH S., 2010. 3D crustal model of Western and Central Europe as a basis for modelling mantle structure. In: *New Frontiers in Integrated Solid Earth Sciences* (Ed. by S. Cloetingh and J. Negendank). Springer-Verlag, p. 39-69.
269. CLOETINGH S. and Negendank J., 2010. Perspectives on Integrated Solid Earth Sciences. In: *New Frontiers in Integrated Solid Earth Sciences* (Ed. by S. Cloetingh and J. Negendank). Springer-Verlag, p. 1-37.
268. CLOETINGH S., Wees van J.-D., Ziegler P., Lenkey L., Beekman F., Tesauro M., Förster A., Norden B., Kaban M., Hardebol N., Bonté D., Genter A., Guillou-Frottier L., Voorde ter M., Sokoutis D., Willingshofer E., Cornu T., Worum G., 2010. Lithosphere tectonics and thermo-mechanical properties: an integrated modelling approach for Enhanced Geothermal Systems exploration in Europe. *Earth Science Reviews*, v. 102, p.159-206.
267. Koulakov I., Kaban M., Tesauro M., CLOETINGH S., 2009. P- and S-velocity anomalies in the upper mantle beneath Europe from tomographic inversion of ISC data. *Geophysical Journal International*, v. 179(1), 345-366.

266. Tesauro M., Kaban M.K., CLOETINGH S., 2009. How rigid is Europe's lithosphere? *Geophysical Research Letters*, v. 36, p. 1-6, L16303.
265. Burov E.B. and CLOETINGH S., 2009. Controls of mantle plumes and lithospheric folding on modes of intra-plate continental tectonics: differences and similarities. *Geophysical Journal International*, v. 178, p. 1691-1722.
264. Tesauro M., Kaban M., CLOETINGH S., 2009. A new thermal and rheological model of the European lithosphere. *Tectonophysics*, v. 476, p. 478-495.
263. Corver M.P., Doust H., Wees van J.-D., Bada G., CLOETINGH S., 2009. Classification of rifted sedimentary basins of the Pannonian Basin System according to the structural genesis, evolutionary history and hydrocarbon maturation zones. *Marine and Petroleum Geology*, v. 26, p. 1452-1464.
262. CLOETINGH S. and Ziegler P., 2009. TOPO-EUROPE: Coupled Deep Earth – Surface Processes in Europe. *European Review*, v. 17, p. 517-540.
261. CLOETINGH S., Ziegler P.A., 2009. Coupled Deep Earth – Surface Processes in Europe: the TOPO-EUROPE Project. *BRGM Journal*, nr. 9, p. 8-17.
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**Current position:** Senior Researcher, Geological Survey of Japan.
- 2. Name, nationality and year of PhD:** **Dr. H. Kooi**, Dutch, 1991  
**Title dissertation:** Tectonic modeling of extensional basins: the role of lithospheric flexure, intraplate stress and relative sea-level change, p. 1-183.  
**Current position:** Associate Professor Dept. of Hydrology, VU, Amsterdam.
- 3. Name, nationality and year of PhD:** **Dr. M.J. de Ruig**, Dutch, 1992  
**Title dissertation:** Tectonic-sedimentary evolution of the Prebetic fold belt of Alicante (SE Spain). A study of stress fluctuations and foreland basin deformation, p. 1-207.  
**Current position:** Senior Geologist, Shell Expro, London.
- 4. Name, nationality and year of PhD:** **Dr. T. Peper**, Dutch, 1992  
**Title dissertation:** Tectonic control on the sedimentary record in foreland basins, p. 1-187 (+ supplement, pp. 83).  
**Current position:** Senior Geologist, Shell Expro, Aberdeen.
- 5. Name, nationality and year of PhD:** **Dr. B.P. Zoetemeijer**, Dutch, 1993  
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**Current position:** Lecturer, VU, Amsterdam.
- 6. Name, nationality and year of PhD:** **Dr. W.W.W. Beekman**, Dutch, 1994  
**Title dissertation:** Tectonic modeling of thick-skinned compressional intraplate deformation, p. 1-152.  
**Current position:** Lecturer Department of Tectonics, UU, Utrecht
- 7. Name, nationality and year of PhD:** **Dr. J-D. van Wees**, Dutch, 1994  
**Title dissertation:** Tectonic modeling of basin deformation and inversion dynamics; the role of pre-existing faults and continental lithosphere rheology in basin evolution, p. 1-164.  
**Current position:** 1994 - 1995: Shell Research, Rijswijk; 1996 – present NITG-TNO, extra-ordinary Professor UU Utrecht.
- 8. Name, nationality and year of PhD:** **Dr. P.H.M. Reemst**, Dutch, 1995  
**Title dissertation:** Tectonic modeling of rifted continental margins. Basin evolution and tectono-magmatic development of the Norwegian and NW Australian margin, p. 1-183.  
**Current position:** Senior Geologist, Shell NL.
- 9. Name, nationality and year of PhD:** **Dr. R.T. van Balen**, Dutch, 1995  
**Title dissertation:** Tectonic control on the hydrodynamics and sedimentary records of extensional basins, p.1-202.  
**Current position:** Professor Dept. of Quaternary Geology, VU, Amsterdam.
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**Title dissertation:** Tectonic evolution of continental rifts. Inferences from numerical modeling and fission track thermochronology, p. 1-232.  
**Current position:** Professor Grenoble University, France.

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Current position: Software Engineer, Pink Elephant, U.K.
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Current position: Post-doc VU (1996-1997), Software Engineer Altair, Germany.
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Current position: Geologist, Shell Expro, Aberdeen.
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Title dissertation: Lithospheric deformation and vertical motions in back-arc Mediterranean basins. The Black Sea and the Tyrrhenian Sea, p. 1-151.  
Current position: Senior Research Geologist, Agip, Milano, Italy.
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Title dissertation: Tectonic modeling of lithospheric extension along faults. Implications for thermal and mechanical structure and basin stratigraphy, p. 1-197.  
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Current position: Post-doc Oslo University.
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Title dissertation: Tectonic evolution of the outer Romanian Carpathians, p. 1-160.  
Current position: Associate Professor Department of Tectonics UU, Utrecht
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Title dissertation: Rheology and basement control on extensional basin evolution in Central and Eastern Europe: Variscan and Alpine-Carpathian-Pannonian tectonics, p. 1-158.  
Current position: Research Training Manager, Hogeschool Utrecht
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Current position: Geologist, NAM, the Netherlands.
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Current position: Midland Valley Exploration, Glasgow.
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Current position: Senior geologist Forest Oil, Budapest.
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Current position: Senior Geologist, Shell Canada, Calgary.
- 23.** Name, nationality and year of PhD: **Dr. R. Huismans**, Dutch, 1999  
Title dissertation: Dynamic modeling of the Transition from passive to active rifting. Application to the Pannonian Basin., p. 1-182.  
Current position: Professor University of Bergen, Norway.
- 24.** Name, nationality and year of PhD: **Dr. L. Lenkey**, Hungarian, 1999  
Title dissertation: Geothermics of the Pannonian basin and its bearing on the tectonics of basin evolution, p. 1-215.  
Current position: Post-doc University of Budapest.
- 25.** Name, nationality and year of PhD: **Dr. G. Stapel**, Dutch, 1999  
Title dissertation: The nature of isostasy in West Iberia and its bearing on Mesozoic and Cenozoic regional tectonics, p. 1-148.  
Current position: Geologist, NAM, the Netherlands.
- 26.** Name, nationality and year of PhD: **Dr. P. Szafian**, Hungarian, 1999  
Title dissertation: Gravity and Tectonics. A case study in the Pannonian basin and the surrounding mountain belt, p. 1-154.  
Current position: Postdoc GeoMega, Budapest.
- 27.** Name, nationality and year of PhD: **Dr. E. Willingshofer**, Austrian, 2000  
Title dissertation: Extension in collisional orogenic belts: the Late Cretaceous evolution of the Alps and Carpathians, p. 1-146.  
Current position: Lecturer, Dept. of Tectonics, UU, Utrecht.
- 28.** Name, nationality and year of PhD: **Dr. T. Skar**, Norwegian, 2000  
Title dissertation: The influence of intraplate stresses on basin subsidence and fluid pressure evolution of Haltenbanken, Mid-Norwegian Margin, p. 1-148.  
Current position: Post-doc University of Bergen, Norway.
- 29.** Name, nationality and year of PhD: **Dr. A. Abadi**, Libian, 2002  
Title dissertation: Tectonics of the Sirt Basin. Inferences from tectonic subsidence analysis, stress inversion and gravity modeling, p. 1-187.  
Current position: Petroleum Research Centre Tripoli, Libya.
- 30.** Name, nationality and year of PhD: **Dr. B. Andeweg**, Dutch, 2002  
Title dissertation: Cenozoic tectonic evolution of the Iberian Peninsula: effects and causes of changing stress fields, p. 1-178.  
Current position: Public Relations Faculty of Earth and Life Sciences, VU, Amsterdam.
- 31.** Name, nationality and year of PhD: **Dr. B. Carrapa**, Italian, 2002  
Title dissertation: Tectonic evolution of an active orogen as reflected by its sedimentary record. An integrated study of the Tertiary Piedmont Basin (Internal Western Alps, NW Italy), p. 1-177.  
Current position: Professor University of Arizona, Tucson
- 32.** Name, nationality and year of PhD: **Dr. J.B. Dirkzwager**, Dutch, 2002  
Title dissertation: Tectonic modelling of vertical motion and its near surface expression in The Netherlands, p. 1-156.  
Current position: Post-doc, University Karlsruhe.

- 33.** Name, nationality and year of PhD: **Dr. I.C. Kroon**, Dutch, 2002  
Title dissertation: Strength of the Adriatic Lithosphere. Inferences from tectonic modeling, p. 1-112.  
Current position: Geologist, NITG-TNO.
- 34.** Name, nationality and year of PhD: **Dr. L. Sarmiento Rojas**, Colombian, 2002  
Title dissertation: Mesozoic rifting and Cenozoic basin inversion . History of the Eastern Cordillera, Colombian Andes. Inferences from tectonic models, p. 1-295.  
Current position: Research Geologist, Instituto Colombiano del Petroleo, Colombia.
- 35.** Name, nationality and year of PhD: **Dr. J. van Wijk**, Dutch, 2002  
Title dissertation: Passive margin formation: tectonic modelling of pre- and synrift lithospheric controls, p. 1-155.  
Current position: Professor University of Texas, Houston USA.
- 36.** Name, nationality and year of PhD: **Dr. K.M. Cohen**, Dutch, 2003  
Title dissertation: Differential subsidence within a coastal prism, p. 1-172. (Utrecht).  
Current position: Lecturer Department of Physical Geography, UU, Utrecht
- 37.** Name, nationality and year of PhD: **Dr. B.W.H. Hendriks**, Dutch, 2003  
Title dissertation: Norway. Cooling and Denudation of the Norwegian and Barents Sea Margins, Northern Scandinavia. Constrained by apatite fission track and (U-Th)/He thermochronology, p. 1-177.  
Current position: Post-doc NGU, Trondheim.
- 38.** Name, nationality and year of PhD: **Dr. R.F. Houtgast**, Dutch, 2003  
Title dissertation: Quaternary tectonic and fluvial evolution of the Roer Valley Rift System, the Netherlands, p. 1-176.  
Current position: Teacher Highschool.
- 39.** Name, nationality and year of PhD: **Dr. J. Juez-Larre**, Spanish, 2003  
Title dissertation: Post Late Paleozoic tectonothermal evolution of the northeastern margin of Iberia, assessed by fission-track and (U-Th)/He analysis. A case history from the Catalan Coastal Ranges, p. 1-200.  
Current position: Research Geologist, NITG-TNO.
- 40.** Name, nationality and year of PhD: **Dr. J.M. Verweij**, Dutch, 2003  
Title dissertation: Fluid flow system analysis on geological time scales in onshore and offshore Netherlands, p. 1-262.  
Current position: Research Geologist, NITG-TNO.
- 41.** Name, nationality and year of PhD: **Dr. S. Dupré**, French, 2003  
Title dissertation: Integrated tectonic study of the South Gabon Margin. Insights on the rifting style from seismic, well and gravity data analysis and numerical modeling, p. 1-136.  
Current position: Senior researcher IFREMER, Brest, France
- 42.** Name, nationality and year of PhD: **Dr. J. Gaspar-Escribano**, Spanish, 2003  
Title dissertation: Tectonic modeling of the Catalan Coastal Ranges (NE Spain) and adjacent areas, p. 1-140.  
Current position: Post-doc University of Madrid.
- 43.** Name, nationality and year of PhD: **Dr. G.G.O. Lopes Cardozo**, Dutch, 2004  
Title dissertation: 3-D Geophysical Imaging and Tectonic Modelling of the active Tectonics of the Upper Rhine Graben Region, p. 1-163.  
Current position: Research Scientist, Shell NL.

- 44.** Name, nationality and year of PhD: **Dr. M. Tarapoanca**, Romanian, 2004  
Title dissertation: Architecture, 3D Geometry and Tectonic Evolution of the Carpathians Foreland Basin, p. 1-120.  
Current position: Post-doc University of Bucharest.
- 45.** Name, nationality and year of PhD: **Dr. S. Tigrek**, Turkish, 2004  
Title dissertation: Seismic evidence of tectonic stresses. Implications for basin reconstruction, p. 1-195. (TUD)  
Current position: Research Scientist, Shell NL.
- 46.** Name, nationality and year of PhD: **Dr. G. Worum**, Hungarian, 2004  
Title dissertation: Modelling of fault reactivation potential and quantification of inversion tectonics in the southern Netherlands, p. 1-152.  
Current position: Post-doc Eötvös University, Budapest.
- 47.** Name, nationality and year of PhD: **Dr. V. Bense**, Dutch, 2004  
Title dissertation: The hydraulic properties of faults in unconsolidated sediments and their impact on groundwater flow, p. 1-143.  
Current position: Post-doc Indiana University.
- 48.** Name, nationality and year of PhD: **Dr. J.P.T. Foeken**, Dutch, 2004  
Title dissertation: Tectono-morphology of the Ligurian Alps and adjacent basins (NW Italy). An integrated study of their Neogene to Present evolution, p. 1-192.  
Current position: Post-doc University of Glasgow.
- 49.** Name, nationality and year of PhD: **Dr. M.C. Geluk**, Dutch, 2005  
Title dissertation: Stratigraphy and tectonics of Permo-Triassic basins in the Netherlands and surrounding areas, p. 1-171.  
Current position: Senior Geologist Shell NL.
- 50.** Name, nationality and year of PhD: **Dr. J.H.W. Smit**, Dutch, 2005  
Title dissertation: Mechanics of brittle-ductile coupling in tectonic processes, p. 1-115.  
Current position: Post-doc UU, Utrecht
- 51.** Name, nationality and year of PhD: **Dr. G.N. Oakey**, Canadian, 2005  
Title dissertation: Cenozoic evolution and lithosphere dynamics of the Baffin Bay-Nares Strait region of Arctic Canada and Greenland, p. 1 – 233.  
Current position: Post-doc Geological Survey of Canada (Atlantic)
- 52.** Name, nationality and year of PhD: **Dr. P. Mosca**, Italian, 2006  
Title dissertation: Neogene Basin Evolution in the Western Po Plain (NW Italy). Insights from seismic interpretation, subsidence analysis and low temperature (U-Th)/He thermochronology. p. 1 – 190.  
Current position: Post-doc University of Torino.
- 53.** Name, nationality and year of PhD: **Dr. G. Peters**, German, 2007  
Title dissertation: Active tectonics in the Upper Rhine Graben. Integration of paleoseismology, geomorphology and geomechanical modeling. p. 1 – 270.  
Current position: Research Scientist StatoilHydro, Bergen, Norway.
- 54.** Name, nationality and year of PhD: **Dr. K.A. Leever**, Dutch, 2007  
Title dissertation: Foreland of the Romanian Carpathians. Controls on late orogenic sedimentary basin evolution and Paratethys paleogeography. p. 1 – 182.  
Current position: Post-doc GFZ, Potsdam
- 55.** Name, nationality and year of PhD: **Dr. Th.J. Buchmann**, German, 2008

Title dissertation: 3D multi-scale finite element analysis of the present-day crustal state of stress and the recent kinematic behaviour of the northern and central Upper Rhine Graben, p. 1 – 233.

Current position: Structural geologist / numerical modeller at Chevron ETC Rock Mechanics Team, Aberdeen, Scotland, UK.

**56.** Name, nationality and year of PhD: **Dr. K. Hirsch**, German, 2008

Title dissertation: Integrating structural and sedimentological observations with numerical lithospheric models to assess the 3D evolution of the South African continental passive margin, p. 1 – 95.

Current position: Post-doc GFZ Research Centre for Geosciences, Potsdam.

**57.** Name, nationality and year of PhD: **Dr. M. Tesauro**, Italian, 2009

Title dissertation: An integrated study of the structure and thermomechanical properties of the European lithosphere, p. 1 – 178.

Current position: Post-doc GFZ Research Centre for Geosciences, Potsdam/UU Utrecht

**58.** Name, nationality and year of PhD: **Dr. N.J. Hardebol**, Dutch, 2010

Title dissertation: The Foreland Belt of the SE Canadian Cordillera from thrust-sheet to lithosphere controls on the burial and thermal evolution, p. 1 – 179.

Current position: Post-doc Delft University of Technology.

**59.** Name, nationality and year of PhD: **Dr. A. Bocin**, Romanian, 2010

Title dissertation: Crustal structure of the SE Carpathians and its foreland from densely spaced geophysical data, p. 1 – 124.

Current position: Post-doc University of Bucharest.

**60.** Name, nationality and year of PhD: **Dr. M. Meijers**, Dutch, 2010

Title dissertation: Tethyan evolution of the Black Sea region since the Paleozoic: a paleomagnetic approach, p. 1 – 247.

Current position: Post-doc GeoAzur; Nice.

**61.** Name, nationality and year of PhD: **Dr. M.P. Corver**, Dutch, 2011

Title dissertation: Linking Petroleum Systems to Sedimentary Basin Evolution, p. 1 – 185.

Current position: Senior geologist Saudi Aramco, The Hague

**62.** Name, nationality and year of PhD: **Dr. S.E. Beglinger**, Dutch, 2011

Title dissertation: Relating Petroleum System- & Play Development to Basin Evolution. South Atlantic Marginal Basins, p. 1 - 220.

Current position: Researcher Statoil, Norway.

**63.** Name, nationality and year of PhD: **Dr. M. Gouiza**, Moroccan, 2011

Title dissertation: Mesozoic Source-to-Sink Systems in NW Africa: Geology of vertical movements during the birth and growth of the Moroccan rifted margin

Current position: University of Saskatchewan

**64.** Name, nationality and year of PhD: **Dr. J. Fernandez-Lozano**, Spanish, 2012

Title dissertation: Cainozoic deformation of Iberia. A model for intraplate mountain building and basin development based on analogue modeling

Current position: Post-doc University of Salamanca

**65.** Name, nationality and year of PhD: **Dr. I. Munteanu**, Rumanian, 2012

- Title dissertation: Evolution of the western Black Sea: kinematic and sedimentological inferences from geological observations and analogue modelling
- Current position: Senior geologist Repsol, Madrid
- 66.** Name, nationality and year of PhD: **Dr. E. Dombrádi**, Hungarian, 2012  
Title dissertation: Deformation of the Pannonian lithosphere and related tectonic topography: a depth-to-surface analysis  
Current position: Senior Geologist Forest Oil Budapest
- 67.** Name, nationality and year of PhD: **Dr. H. Boro**, Indonesian, 2012  
Title dissertation: Fracturing, Physical Properties and Flow Patterns in Isolated Carbonate Platforms. A field and numerical study of the Latemar Platform (Dolomites, N Italy)  
Current position: SGS Horizon consultancy
- 68.** Name, nationality and year of PhD: **Dr. W. Stolk**, Dutch, 2013  
Title dissertation: Robust high resolution models of the continental lithosphere: Methodology and application to Asia  
Current position: Researcher Fugro, Leidschendam
- 69.** Name, nationality and year of PhD: **Dr. M. ter Borgh**, Dutch, 2013  
Title dissertation: Connections between sedimentary basins during continental collision  
Current position: Postdoc Utrecht University
- 70.** Name, nationality and year of PhD: **Dr. D. Bonté**, French, 2014  
Title dissertation: Thermal characterisation of sedimentary basins: implications for geothermal and hydrocarbon exploration in The Netherlands and France.  
Current position: Postdoc Utrecht University
- 71.** Name, nationality and year of PhD: **Dr. K.M. Stange**, German, 2014  
Title dissertation: Climatic and tectonic controls on river incision and Quaternary terrace staircase formation in the Pyrenees  
Current position: Bremen University
- 72.** Name, nationality and year of PhD: **Dr. D.F. Blanco**, Spanish, 2014  
Title dissertation: Evolution of Orogenic Plateaus at subduction margins: sinking and raising the Southern margin of the Central Anatolian Plateau  
Current position: Postdoc IPG Parijs
- 73.** Name, nationality and year of PhD: **Dr. M.S. Tilita**, Rumanian, 2015  
Title dissertation: Evolution of the Transylvanian Basin: inferences from seismic interpretation and numerical modelling  
Current position: OMV
- 74.** Name, nationality and year of PhD: **Dr. E. Calignano**, Italian, 2015  
Title dissertation: Rheological and structural inheritance: key parameters for intra-plate deformation. A study based on analogue models  
Current position: