

Curriculum Vitae of Jan Smit

Prof. Dr. **Jan Smit** emeritus

Born: April 8, 1948 , the Hague, Netherlands

MSc (doctoraal examen) Geology April 24, 1974 at the University of Amsterdam: major in Stratigraphy, minor in Sedimentology,

Dissertation: (PhD): May 11, 1981 (cum laude), of the University of Amsterdam

Thesis title: "A catastrophic event at the Cretaceous-Tertiary Boundary"

Career:

- 2013- emeritus professor, VU University
- 2003-2013 Professor Event Stratigraphy, department of Sedimentology, Faculty of Earth and Life Sciences, VU University Amsterdam
- 1994-2003 Assistant professor (senior), department of Sedimentology, Faculty of Earth and Life Sciences, Vrije Universiteit Amsterdam
- 1989-1993 Research Fellow (Academieonderzoeker) of the Koninklijke Nederlandse Academie van Wetenschappen (KNAW)
- 1983-1985 Post-doctoral researcher, Institute of Geophysics and Planetary Physics, University of California at Los Angeles, Los Angeles California, U.S.A.
- 1983 Visiting assistant Professor of Geology, California Institute of Technology, Pasadena, California, U.S.A
- 1981-1983 Post-doctoral researcher, University of Amsterdam

Awards and Memberships:

- 2012 Barringer medal of the Meteoritical Society
- 2002-2013 Member of the Koninklijke Nederlandse Academie van Wetenschappen (KNAW)
- 1989 Recipient of the AKZO-Science Prize
- 1999 Recipient of the 1999 Mary Clark Thompson Medal of the National Academy of Sciences, Washington D.C.
- 1995 Miller Visiting Professor, University of California, Berkeley, 1-30 November.
- 1988 Participant of the Ocean Drilling Project (ODP) leg 121 (Indian Ocean)
- 1997 Participant of the Ocean Drilling Project (ODP) leg 171B (Blake Nose, Florida)
- 1991 Participant National Academy of Sciences symposium "Frontiers of Science", Irvine, California.
- 2002-present Principal Investigator of the Chicxulub Scientific Drilling Project, a project of the International Continental scientific Drilling Program ICDP
- 2003-2006 President of the Division of Stratigraphy, Sedimentology and Paleontology, (SSP) of the European Geosciences Union

Selected Publications:

- ★Açikalın, J. Vellekoop, F. Ocakog, I.O. Yılmaz, J. Smit, Sevinç O.
- ★Altıner, S. Goderis, H. Vonhof, R.P. Speijer, L. Woelders, E. Fornaciari, H. Brinkhuis (2015) Geochemical and palaeontological characterization of a new K-Pg Boundary locality from the Northern branch of the Neo-Tethys: Mudurnu and Goynük Basin, NW Turkey, *Cretaceous Research* 52: 251-267
- ★Belza, J., S.Goderis, J. Smit, F. Vanhaecke, K. Baert, H. Terryn and P. Claeys (2015). "High spatial resolution geochemistry and textural characteristics of 'microtektite' glass spherules in proximal Cretaceous–Paleogene sections: Insights into glass alteration patterns and precursor melt lithologies." *Geochimica et Cosmochimica Acta* 152: 1-38.
- ★Vellekoop, J., A. Sluijs, J. Smit, S. Schouten, J. W. H. Weijers, J. S. S. Damsté and H. Brinkhuis (2014). "Rapid short-term cooling following the Chicxulub impact at the Cretaceous–Paleogene boundary." *PNAS* 111: 7537–7541.
- ★Goderis, S., R. Tagle, J. Belza, J. Smit, A. Montanari, F. Vanhaecke, J. Erzinger and P. Claeys (2013). "Reevaluation of siderophile element abundances and ratios across the Cretaceous–Paleogene (K–Pg) boundary: Implications for the nature of the projectile." *Geochimica et Cosmochimica Acta* 120: 417-446.
- ★Renne, P.R., Deino, A. L., Hilgen, F. J., Kuiper, K. F., Mark, D. F., Mitchell, W. S., Morgan, L. E., Mundil, R., Smit, J. (2013) Time Scales of Critical Events Around the Cretaceous-Paleogene Boundary. *Science* 339:684-687
- ★Batenburg, S.J., Sprovieri, M., Gale, A. S., Hilgen,, F. J., Hüsing, S. Laskar, J. Liebrand, D. Lirer, F. Orue-Etxebarria, X.r, Pelosi, N. Smit, J.. (2012) Cyclostratigraphy and astronomical tuning of the Maastrichtian at Zumaia (Basque country, Northern Spain). *EPSL* 359:264-278
- ★Smit J, Laffra C, Meulenaars K, & Montanari A (2012) Probable late Messinian tsunamiites near Monte Dei Corvi, Italy, and the Nijar Basin, Spain: expected architecture of offshore tsunami deposits. *Natural Hazards* 63:241-266
- ★Smit J (2012) A flashback on the dawn of the meteorite impact/extinction theory. *Acta Palaeontologica Polonica* 57:677-679
- ★P. Schulte, J. Smit, A. Deutsch, T. Salge, A. Friese, K. Beichel (2011) Tsunami backwash deposits with Chicxulub impact ejecta and dinosaur remains from the Cretaceous–Palaeogene boundary in the La Popa Basin, Mexico. *Sedimentology* 59:20-45
- ★H.B. Vonhof, J.W.M. Jagt, A. Immenhauser, J. Smit, Y.W. van den Berg, M. Saher, N. Keutgen, J.J.G. Reijmer (2011) Belemnite-based strontium, carbon and oxygen isotope stratigraphy of the type area of the Maastrichtian Stage. *Netherlands Journal of Geosciences* 90:259-270
- ★P. Schulte, R. P. Speijer, H. Brinkhuis , A. Kontny, P. Claeys, S. Galeotti, J. Smit (2008) Comment on the paper: "Chicxulub impact predates K-T boundary: New evidence from Brazos, Texas" by Keller et al. *Earth and Planetary Science Letters* 269:614-620
- ★Smit, J. (2005). The section of the Barranco del Gredero (Caravaca, SE Spain): a crucial section for the Cretaceous/Tertiary boundary impact extinction hypothesis. *Journal of Iberian Geology* . *F. J.-M. R. M. Marcos A. Lamolda, Christopher R. C. Paul*. Madrid. 31:179-191.
- ★Smit, J., Gaast, S. J. v. d., and Lustenhouwer, W. T., (2004). Is the transition impact to post-impact rocks complete? Some remarks based on XRF scanning, electron microprobe, and thin section analyses of the Yaxcopoil-1 core in the Chicxulub crater: *Meteoritics and Planetary Science* 39:1113-1126.
- ★Dressler, B. O., Buffler, R., Morgan, J., Moran-Zenteno, D., Sharpton, V. L., Smit, J., Stöffler, D., and Urrutia, J. (2003), Investigating a 65-Ma Old smoking gun: Deep drilling of the Chicxulub impact structure: *EOS* 84:125-130.
- ★Martinez, R. F., Ortega, H. M., Palomo, I., and Smit, J., (2002) Cretaceous-Tertiary boundary at Blake Nose (Ocean Drilling Program Leg 171B); a record of the Chicxulub impact ejecta, in:

Koeberl, Christian ; MacLeod, and Kenneth, eds., Catastrophic events and mass extinctions; impacts and beyond., Geological Society of America (GSA). Boulder, CO, United States

★Smit, J., (1999) The global stratigraphy of the Cretaceous-Tertiary boundary impact ejecta: Annual Review of Earth and Planetary Sciences 27:75-113.

★Smit, J., (1997) Predictive elements of large-body impacts in geologic history: Geol. Rundschau 86:464-470.

★Smit, J., T. B. Roep, et al. (1996). Coarse grained, clastic sandstone complex at the K/T boundary around the Gulf of Mexico: Deposition by tsunami waves induced by the Chicxulub impact? The Cretaceous-Tertiary Event and Other Catastrophes in Earth History. *G. Ryder, D. Fastovsky and S. Gartner*. Boulder. Geol. Soc. of Amer. Sp. Pap. 307:151-182.

★Smit, J., and Brinkhuis, H (1996) The Geulhemmerberg Cretaceous/Tertiary boundary section (Maastrichtian type area, SE Netherlands); summary of results and a scenario of events, in Brinkhuis, H., and Smit, J., eds., The Geulhemmerberg Cretaceous/Tertiary boundary section (Maastrichtian type area, SE Netherlands Geologie and Mijnbouw 75: 283-293.

★Smit, J., Alvarez, W., Montanari, A., Swinburne, N., Kempen, T. M. v., Klaver, G. T., and Lustenhouwer, W. J., (1992) "Tektites" and microkrystites at the Cretaceous Tertiary boundary: Two strewnfields, one crater?: Proc. Lun. Planet. Science conf. 22:87-100.

★Smit, J. and S. van der Kaars, (1984) "Terminal Cretaceous extinctions in the Hell Creek Area, Montana: compatible with catastrophic extinction." Science 223:1177-1179.

★Smit, J., and Klaver, G., (1981) Sanidine spherules at the Cretaceous-Tertiary boundary indicate a large impact event: Nature 292:47-49.

★Smit, J., and Hertogen, J., (1980) An extraterrestrial event at the Cretaceous-Tertiary boundary: Nature 285:198-200.

