On 14C-based methods for measuring the biogenic carbon fraction in fuels and flue gases
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Curriculum Vitae

Sanne Palstra was born on 15 December 1975 in Stadskanaal, the Netherlands. After secondary school, VWO at “R.K.S.G. Titus Brandsma” in Bolsward, she followed the 4-year bachelor programme (BASc) “Chemistry” at the NHL University Of Applied Sciences in Leeuwarden, with specialization in analytical chemistry and environmental chemistry. In the period 1998-2005 she worked as chemical analyst on the analysis of pesticides in seawater at the National Institute for Coastal and Marine Management (RIKZ), a former research institute of Rijkswaterstaat (Ministry of Infrastructure and Environment). In the period 2005-2007 she followed the 2-year master programme (MSc) “Energy and Environmental Sciences” at the University of Groningen. While following the specialization track: “Experimental measurements of greenhouse gases and climate history” she started her first research at the Centre for Isotope Research (CIO). The subject of her training thesis was related to radon and CO₂ measurements in soil fluxes at the CIO monitoring station ‘Lutjewad’. The research of her master thesis, which finally resulted in her first research paper, concerned ¹⁴C measurements in wine ethanol as tracer for fossil fuel derived CO₂ emissions in Europe.

In 2008 she started working at the CIO as research assistant in a temporary project about the use of ¹⁴C measurements to determine the biogenic carbon fraction in flue gases. Since 2009, in a more permanent position as research assistant at CIO, she works partly as chemical analyst and partly as researcher (PhD-employee) on different topics related to the measurement of ¹⁴C in different kind of materials. The PhD research work from the period 2007-2015 was focussed on the use of ¹⁴C measurements to distinguish biogenic and fossil carbon fractions in fuels, flue gases and atmospheric CO₂, which combined the wine ethanol research, the atmospheric ¹⁴CO₂ measurements from Lutjewad samples and the research of the ¹⁴C method for fuels and flue gases. The final PhD thesis is focussed on the ¹⁴C method for fuels and flue gases. Besides the PhD research work, she is involved in several other archaeological, ¹⁴C methodological and atmospheric research projects and she acts as expert in international standardization of the ¹⁴C method for biogenic carbon fraction determination. In 2014 she became a qualified supervisor Radiation protection – level 3, for the CIO laboratory. Since 2015 she is also involved in the management of the CIO laboratory.
List of publications


Bozhinova, D., **Palstra, S.W.L.,** van der Molen, M.K., Krol, M.C., Meijer, H.A.J., Peters, W., Three years of $\Delta^{14}$CO$_2$ observations from maize leaves in the Netherlands and Western Europe, *Radiocarbon*, (under revision).

List of presentations (related to the PhD research):


