Prof. Veerle Cnudde

Full professor

2019:

Ghent University (Belgium), Faculty of Sciences, Geology Department

Utrecht University (The Netherlands), Faculty of Geosciences, Earth Sciences Department

Pore-scale Processes in Geomaterials Research group (PProGRess, http://www.pprogress.ugent.be/) + Centre for X-ray Tomography (UGCT, www.ugct.ugent.be)

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Education and Professional Career

1997-1999	Bachelor in Geology, Dept. of Geology, Ghent University/ Belgium
1999-2001	Master in Geology, option Minerals and Geo-materials; Dept. of Geology, Ghent University/ Belgium
2001-2005	PhD in Science: Geology; Exploring the potential of X-ray tomography as a new non-destructive research tool in conservation studies of natural building stones. Dept. of Geology and Soil Science, Ghent University/ Belgium
2006-2010	Post-doc in Physics and Geology department, Ghent University
2008	Co-Founder spin-off Inside Matters (Belgium)
2010-2015	Assistant research professor at Dept. of Geology, Ghent University/ Belgium
1/2/2015	Associate professor at the Dept. of Geology, Ghent University/ Belgium
1/10/2018	Full professor at the Dept. of Geology, Ghent University/ Belgium
1/2/2019	Dual professorship as Full professor at Dept. of Earth Sciences, as Chair holder
	"Porous media imaging techniques"- Hydrogeology, Utrecht University (UU), the
	Netherlands

Commitment, Appointments and Scientific Volunteer Jobs (selection)		
2010	Co-organiser seminar "X-ray tomography as a multidisciplinary research tool/75 participant/ Belgium	
From 2010	Member IUGS/IAEG Heritage Stone Task Group, Member of IAEG C10	
From 2010	Member of Geologica Belgica, Belgium, Member of BLUG-UBLG, Belgium Luxembourg,	
From 2010	Coordinator Pore-scale Processes in Geomaterials Research group, PProGRess,	
From 2010	Member of steering group of consortia DuraBuild <i>materials</i> & HybridCT/UGent/Belgium	
From 2010	Co-coordinator Centre for X-ray Tomography, Ghent University	
From 2010	Member of the Board of Examiners of more than 35 PhD students	
2012	Co-organiser 4 rd Flemish-Dutch natural stone day, The Netherlands	
From 2012	Member of Proposal Review Committee of the Swiss Synchrotron, Switzerland	
From 2010	Review for more than 35 several International Scientific journals	
From 2014	Elected Faculty member, Ghent University/ Faculty of Sciences/ Belgium	
From 2014	Member of InterPore	
From 2015	Co-Chair InterPore BeNeLux	
2013	Organiser 1 st ICTMS, 2013, Belgium	
2015	Co-organiser Mini-symposium 1.7: Pore Scale Processes and Upscaling	
	of Flow and Transport at InterPore/Italy	
2017	Elected council member InterPore	

co-organiser MS #10: Advances in imaging porous media: techniques, software

and case studies.

2018-present Research & valorization director as faculty board member, Faculty of Sciences, UGent

Professional Awards, Offers and Recognitions

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2020	Kimberly-Clark Distinguished lectureship award 2020
2010	Selected as Tenure track research assistant professor: Faculty of
	Sciences/ Dept. of Geology and Soil Science, Ghent University/Belgium
2007 - 2010	Post-doc funded by the Research Foundation - Flanders (FWO)/Belgium
2006 - 2007	Post-doc funded by Special Research Fund of Ghent University
2002 –2005	Ph.D. scholarship funded by the government agency for Innovation by Science
	and Technology/Belgium
2001	Ph.D. scholarship funded by Special Research Fund of Ghent University

Most important Publications

- 1. [1] Cnudde, V., et al., 2004. X-ray-CT used for the localisation of water repellents & consolidants inside natural building stones. Materials Char. 53, 259-271.
- 2. [2] Cnudde, V., et al., 2008. High-speed neutron radiography for monitoring the water absorption by capillarity in porous materials. Nuclear Instruments and Methods in Physics Research B: Beam interactions with materials and atoms 266(1):155-163.
- 3. [3] Cnudde, V., et al., 2009. Porosity and microstructure characterization of building stones and concretes. Engineering Geology, 103(3-4):79-83.
- 4. [4] Cnudde, V., et al., 2011. High-resolution X-ray CT for 3D petrography of ferruginous sandstone for an investigation of building stone decay. Microscopy Research and Technique, 74: n/a. doi: 10.1002/jemt.
- 5. [5] Cnudde, V., et al., 2013. Multi-disciplinary characterisation and monitoring of the Kandla grey under different external conditions. Quarterly Journal of Engineering Geology and Hydrogeology 46(1):95-106.
- 6. [6] Cnudde, V., Boone, M., 2013. "High-resolution X-ray computed tomography in geosciences: a review of the current technology and applications." Earth-science reviews, 123: 1-17. SCI-IF (2013): 7.135.
- 7. [7] Boone, M., Nielsen, P., De Kock, T., Boone, M., Quaghebeur, M., Cnudde, V., 2014. Monitoring of stainless steel slag carbonation using X-ray computed microtomography. Environmental Science & Technology, DOI: 10.1021/es402767q. SCI-IF(2014): 5,33.
- 8. [8] De Boever, W., Derluyn, H., Van Loo, D., Van Hoorebeke, L., Cnudde, V., 2015. "Data-fusion of high resolution X-ray CT, SEM and EDS for 3D and pseudo-3D chemical and structural characterization of sandstone." MICRON 74: 15-21. SCI-IF (2014): 1.988.
- 9. [9] Bultreys, T., Van Hoorebeke, L., Cnudde, V., 2015. "Multi-scale, micro-computed tomography based pore network models to simulate drainage in heterogeneous rocks." Advances in Water Resources 78: 36-49. SCI-IF (2014): 3.417.
- 10. [10] Bultreys, T., De Boever, W., Cnudde, V., 2016. "Imaging and image-based fluid transport modeling at the pore scale in geological materials: A practical introduction to the current state-of-the-art." Earth Science Reviews 155: 73-128 SCI-IF (2014): 7.885.