
Prof. Dr. Greet Deruyter
Ghent University, Belgium

General information

Name: **Deruyter**
First names: **Greta Gudrun**

Date of birth: October 20th , 1961

Function: Associate Professor Ghent University
Chair Study Programme Committee Civil Engineering Technology

Professional address: Ghent University, Department of Civil Engineering EA15
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Fields of Research

Themes of research:

laser scanning – 3D data acquisition techniques – photogrammetry – modelling and cartography – geographic information management - acquisition and modelling of data - risk calculation

Honours and Memberships

Academic functions (Ghent University)

- Chair of the Study Programme Committee Civil Engineering Technology, since 01.10.2015
- Secretary of the Study Programme Committee Civil Engineering Technology, 1.10.2006 – 30.09.2016
- member of the Study Programme Committee Civil Engineering Technology, since 1.10.1994
- member of the Faculty Council of the Faculty of Engineering and Architecture, since 01.10.2013
- member of the Public Relations Committee, since 01.01.2013
- member of the Diversity team of the Faculty of Engineering and Architecture, since 01.10.2014
- ombudsperson for students of the Faculty of Engineering and Architecture, campus Schoonmeersen, since 01.10.2014
- promotor Erasmus Agreement with Ecole spéciale des travaux publics (ESTP), Paris, since 2011
- promotor Erasmus Agreement with the University of Gävle, Gävle, Sweden, since 2015

Scientific functions

Scientific boards

- Former member of the *European Education in Geodetic Engineering, Cartography and Surveying* Thematic network (*EEGECS*), 2002-2005
- Member of the Scientific Committee Geomatics 2016
- member of the Scientific Committee of the Baltic Geodetic Congress, 2016
- member of the Scientific Committee of the Baltic Geodetic Congress, 2017

Editing boards

- member of the editing board of *Journal of Geodesy and Geomatics Engineering*
- reviewer *Journal of Geodesy and Geomatics Engineering*
- reviewer *Journal of Hydraulic Research*
- member of the editing board of the Baltic Geodetic Congress, 2016
- member of the editing board of the Baltic Geodetic Congress, 2017

Councils and boards; memberships of scientific organisations

- member of the board of the KVLOV (Koninklijke Vereniging van Landmeters-Experts van Oost-Vlaanderen vzw)
- former member of expert group vicinal roads

Education and Qualifications

diplomas and certificates	university / institution	year
Candidate (Bachelor) Industrial Engineer in Construction	IHSR (University College Ghent)	1982
Licentiate (Master) Industrial Engineer in Construction	IHSR (University College Ghent)	1984
Licentiate (Master) Industrial Engineer in Land surveying	IHS (University College Ghent)	1995
PhD in Sciences: Geography	Ghent University	2005
<i>certificates in informatics in</i>		
• RSX 11M/M+ utilities and commands	Digital Equipment Corporation	1986
• Fortran 77		1986
• VAX/VMS system management		1987
• RMS design and programming		1988
• VAXcluster system management		1989
• RDB/VMS physical design & administration		1990
• DECNET/VAX system management I		1992
• DECNET/VAX system management II		1992

Professional experience

function	institution	from	till
Production planning engineer	Volvo Cars Europe Industry	1984	1985
Data development and processing engineer	Volvo Cars Europe Industry	1985	1986
System manager	Volvo Cars Europe Industry	1986	1993
Assistant construction & land surveying	University College Ghent	1993	2006
Assistant Professor land surveying & GIS	University College Ghent	2006	2013
Visiting Professor	Gent University	2009	2013
Assistant Professor land surveying & GIS	Gent University	2013	2015
Associate Professor land surveying & GIS	Gent University	2015	present

Research work

see all publications on: <https://biblio.ugent.be/person/802000379952>

Active participation at congresses, colloquia, symposia, study days (since 2001)

Date	Function/title lecture	Activity — Organisation	Place
July 30 – Aug. 5, 2018	Presentation: Semi-automatic flood detection using historic satellite imagery	18th International Multidisciplinary Scientific GeoConference SGEM 2018	Albena, Bulgaria
July 30 – Aug. 5, 2018	Keynote: Open source and our role as Scientists	18th International Multidisciplinary Scientific GeoConference SGEM 2018	Albena, Bulgaria
July 27 – 29, 2016	Presentation: On-site geometrical measurements of an experimental ice composite shell through TLS and photogrammetry	Structures and Architectures (ICSA2016)	Guimarães, Portugal
June 16 – 25, 2015	Session chair: Geoinformatics and Cartography and GIS	15th International Multidisciplinary Scientific Geoconference SGEM 2015	Albena, Bulgaria
June 16 – 25, 2015	Presentation: The use of terrestrial laser scanning for measurements in shallow-water: correction of the 3D coordinates of the point cloud	15 th International Multidisciplinary Scientific GeoConference SGEM	Albena, Bulgaria
June 18 – 25, 2014	Session chair: Ecology and Environmental Protection and Cartography and GIS	14th International Multidisciplinary Scientific Geoconference SGEM 2014	Albena, Bulgaria
June 18 – 25, 2014	Presentation: Assessment of the accuracy and precision of a near-real-time processing method of laser scan data applied on concrete structures	14th SGEM GeoConference on Informatics, Geoinformatics and Remote Sensing	Albena, Bulgaria

June 16 – 22, 2013	Poster presentation: The evolution of education in land surveying in Flanders, Belgium: a work in progress	13th International Multidisciplinary Scientific Geoconference - SGEM 2013, Education and Accreditation	Albena, Bulgaria
June 16 – 22, 2013	Presentation: Risk assessment: a comparison between the use of terrestrial laser scanners and total stations in a situation where time is a critical factor	13th International Multidisciplinary Scientific Geoconference - SGEM 2013, Photogrammetry and Remote Sensing	Albena, Bulgaria
June 16 – 22, 2013	Presentation: Evaluating spatial inequality in preschools in Ghent, Belgium	13th International Multidisciplinary Scientific Geoconference - SGEM 2013, Cartography and GIS	Albena, Bulgaria
March 5 – 7, 2012	Poster presentation: Looking for the ideal combination distance – resolution with regard to the desired level of detail in laser scanning	INTED 2012 – International Technology, Education and Development Conference, IATED	Valencia, Spain,
May 10 – 12, 2012	Presentation: Geographical information systems and spatial data infrastructures can enhance planning. (case of Flanders)	Seventh International Conference on Informatics and Urban and Regional Planning (INPUT2012)	Cagliari, Italy
March 5 – 7, 2012	Presentation: University colleges can help smaller land surveying companies in introducing new data acquisition techniques	INTED 2012 – International Technology, Education and Development Conference, IATED	Valencia, Spain
October 14, 2010	Presentation: Laserscanning voor de landmeter	Flagis: GIS-o-TOPO-lis	Brussels, Belgium
2010	Teleseminar: Buurtwegen en waterwegen	Teleseminar:	Gent, Belgium
June 8, 2010	Lecture: Buurtwegen en waterwegen	IPVW, UGent, Permanente vorming Landmeters	Gent, Belgium
March 8 – 10, 2010	Virtual presentation: Comparison of as-built and design geometry based on point clouds obtained by terrestrial laser scanning	International Technology Education and Development Conference (INTED2010)	Valencia, Spain
March 8 – 10, 2010	Virtual presentation: Comparison of as-built and design geometry based on point clouds obtained by terrestrial laser scanning	International Technology Education and Development Conference (INTED2010)	Valencia, Spain
May 13, 2008	Lecture: Aspecten van buurtwegen	IPVW, UGent, Permanente vorming Landmeters	Gent, Belgium
October 15, 2008	Presentation: De Atlas der Buurtwegen in GIS raadpleegbaar	Flagis: GIS-o-TOPO-lis	Brussels, Belgium
September, 2008	Presentation: digitalisatie	studienamiddag “Ondergrondse leidingen digitaal bekeken”	Gent, Belgium
2007	Poster presentation: Master in Applied Engineering Sciences in	Spatial Data Research in Belgium - EUROS DR	Brussels, Belgium

	Land Surveying USING SPATIAL DATA		
December 6, 2006	Presentation: De Atlas der buurtwegen als archiefbron en basis voor de uitbouw van een netwerk van trage wegen	OVO	Olen, Belgium
May, 2006	Presentation: De atlas der Buurtwegen digitaal	studiedag "De trage weg naar een buurtwegenplan"	Hoogstraten, Belgium
November 9, 2005	Presentation: Buurt- en voetwegen binnen trage mobiliteit	De Belgische Geografendagen	Gent, Belgium
May 3, 2005	Poster presentation: De atlas der buurtwegen	Doctoraatsymposium UGent	Gent, Belgium
June 9, 2004	Presentation: De wet op de buurtwegen	Gemeente Gavere	Gavere, Belgium
May 29, 2004	Guest lecture: GPS	Sociale Promotie	Gent, Belgium
May 20, 2004	Presentation: De Atlas der buurtwegen: Evolutie van buurtwegen en verwante gemeentewegen in Vlaanderen d.m.v. integratie van archiefbronnen in een geografisch informatie systeem	OVO	Olen, Belgium
February 11, 2004	Presentation: De Atlas der buurtwegen: Evolutie van buurtwegen en verwante gemeentewegen in Vlaanderen d.m.v. integratie van archiefbronnen in een geografisch informatie systeem	OVO	Olen, Belgium
April 29, 2003	Presentation: De Atlas der Buurtwegen: een vergeten cartografisch erfgoed	KCLE	Gent, Belgium
May10, 2001	Presentation: De Atlas der Buurtwegen	Flagis: GeschiedeGIS	Gent, Belgium

Projects

- Tetra project nummer (2006 – 2009)
KLIMOP: Kabels en Leidingen uitwisselingsformaat: IMplementatie- & OntwikklingsProject
Role: co-promotor
- PWO project (2009 – 2012)
GOLEX: Good/best practices bij de exclusieve taken van de landmeter-expert
Role: Co-promotor
- Leonardo da Vinci (2009 – 2011)
THERMOVALORisations: practices and careers
Role: member

- Tetra project (2009 – 2012)
PLATO: Project Laserscanning: Technologische kennis Overdracht
Role: co-promotor
- Tetra project (2015 – 2018)
PRO³: Prefab-Renovatie-Oplossingen voor de tertiaire gebouwsector
Role: co-applicant