Simon De Stercke

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Education

	Yale School of Forestry & Environmental Studies, New Haven, CT Master of Environmental Management (MEM), 2012 Concentration: Energy and the environment		
	 Politecnico di Torino, Turin, Italy European exchange program Erasmus, 2008-2009 Master's thesis: Development of a CNG/HCNG Engine Test Rig and Study of Combustion Parameters Ghent University, Ghent, Belgium Bachelor and Master of Electromechanical Engineering, 2007 and 2009 Main subject: Mechanical energy engineering 		
Experience	Man Subject Mechanical Chergy engineering		
Experience			
	International Institute for Applied Systems Analysis Laxenburg, Austria Research Assistant in Transitions to New Technologies (TNT) Program	July 2012 - present	
	Research historical end-use energy conversion efficiency for different sectors		
	Construct historical useful energy balances for the world, world regions, and individ	lual countries	
	• Analyze dynamics of global, regional and national energy systems from this output	perspective	
	 Support colleagues for R programming language 		
	 Provided support for update of Energy and Carbon Emissions Inventory Database Active member of Staff Association Committee (Social Committee) 		
	Professor Arthur Campbell (Yale School of Management) New Haven, CT <i>Teaching Assistant</i>	Spring 2012	
	 Assisted students in the class "Energy Markets Strategy" 		
	Coordinated an electricity market game and handled logistics for the class (grading	g, tutoring)	
	Professor Arnulf Grübler (Yale University / IIASA) New Haven, CT Fall 20 Teaching Fellow Fall 20		
	 Handled logistics for the class "Energy Systems Analysis" 		
	• Provided support to students of the class: correcting problem sets and exams, teach	hing in sessions, tutoring	
	ational Business Machines (IBM) Brussels, Belgium August 2011		
	Analyzed results of mobility sharing pilot program in view of possible full deploy	nent	
	• Evaluated MOVES motor emissions simulator for use in IBM's transportation proje		
	The Kohala Center Kamuela, HI Researcher for Energy Sustainability Plan project	June-July 2011	
	• Analyzed comprehensive energy situation in the County of Hawai'i, present and h	istorical	
	• Interviewed various stakeholders in Hawai'i's energy system with team		
	Permanent Mission of the Maldives to the United Nations Organization New York, NY <i>Adviser</i>	Spring 2011	
	Aided in Mission-related activities		
	Followed and reported on Mission and UN meetings and on CSD-19 negotiations		
	Professor Alessandro Gomez (Yale School of Engineering and Applied Science) New Ha Research Assistant	or Alessandro Gomez (Yale School of Engineering and Applied Science) New Haven, CT Fall 2010 Assistant	
	Set up equipment to measure emissions from a cook stove designed in-house and performed testsDrew up plans for a new design of the cookstove		
	Lutgardiscollege Oudergem, Belgium Mathematics Teacher	November 2009 - June 2010	

- Taught basic and advanced math in years 1-4 of Belgian General Secondary Education
- Organized school participation in Flemish Mathematics Olympiad

Bain & Company Belgium Brussels, Belgium

Associate Consultant Intern

- Analyzed, advanced and consulted on customer care with team, in telecommunications sector
- Created a customer satisfaction dashboard

ExxonMobil Antwerp, Belgium

Intern

- Developed optimization tool for MOGAS blending at Antwerp Refinery
- Initiated creation of tool for automation of LPG tanker traffic planning

Relevant Coursework

Energy Systems Analysis, Climate Modeling, Life Cycle Assessment, Policy Modeling, Industrial Ecology, Energy Markets Strategy, Economics of the Environment, Intermediate Macroeconomics, Technological Change, Energy Economics and Management, Nuclear and Thermoelectric Power Plants, Renewable Energy Sources, Electrical Power Systems, Technical Thermodynamics, Heat and Combustion Engineering, Thermal Installations, Automobile Technology, Alternative Propulsion, ICT and Mechatronics

Honors And Awards

- Belgian American Educational Foundation Francqui Fellow 2010-2011
- Bachelor and Master HQILQHHULQJ degrees awarded with the Greatest Distinction
- Finalist in Flemish Math Olympiad, Flemish Chemistry Olympiad, Flemish Physics Olympiad (2004)

Skills

Software: Excellent MS Excel skills (also VBA) and good understanding of MS Word, MS PowerPoint, experience with MS Access and MS Visio.

SimaPro (Life Cycle Assessment). EdGCM Climate Modeling software. \$UF*,6 Data management and processing: R, Oracle SQL 0DSOH H[SHULHQFH ZLWK 0\$7/\$% Experience with CAD-program Solidworks, CFD-program Fluent \$VSHQ NI LabVIEW *\$06 Languages: Dutch (native), English, French, Italian, intermediate Spanish, basic German

Publications

Cooke, C., **De Stercke**, **S**., Seligman, J., Teng, J. and Zhao, Y. Energy Efficiency in Low Income Communities on Hawai'i Island. Yale School of Forestry and Environmental Studies Center for Industrial Ecology, 2011. Published by The Kohala Center.

Contributed to:

Cooke, C., Parsons, D. County of Hawai'i Energy Sustainability Program: Five Year Roadmap. Prepared for the County of Hawai'i Department of Research & Development, 2012. Published by The Kohala Center.

Miscellaneous

- Actively involved in IIASA 40th Anniversary Conference (October 2012)
- Set up and operate *Esci!* initiative ("Expand your Social Circle at IIASA") at IIASA
- During MEM Program, member of Forestry Club which organizes social events at the school
- MIT Energy Conference 2012 Organizer for Registration
- Consulting project on ISO-50001 implementation for Curtis Packaging (Sandy Hook, CT)
- Free time: running, bicycling, learning, dancing, music, CouchSurfing.org, traveling, hanging out, staying in touch

Summer 2008

Summer 2007