

DR MARIJKE ANTONIA FAGAN-ENDRES

CURRICULUM VITAE SUMMARY: August 2017

PERSONAL INFORMATION

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University of Cape Town
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QUALIFICATIONS

- 2009 – 2013: PhD – Chemical Engineering, University of Cambridge, UK
Supervisor: Dr Michael Johns and Dr Andy Sederman
“Fundamental studies of heap leaching hydrology using magnetic resonance imaging”
- 2005 – 2008: BSc – Chemical Engineering, University of Cape Town (with honours)
“Development of assay system for carbonic anhydrase in whole cell systems”
- 2000 – 2004 Matriculation, Westerford High School, Cape Town

PROFESSIONAL HISTORY

- 2016 – present Senior Lecturer, Department of Chemical Engineering, University of Cape Town
- 2014 – 2015: Lecturer, Department of Chemical Engineering, University of Cape Town
- 07/2013 – 12/2013: Post-Doctoral Researcher, Department of Chemical Engineering, University of Cape Town
- 07/2013 – 12/2013: Assistant Lecturer – Reactor Design II, Department of Chemical Engineering, University of Cape Town
- 2011 – 2012: Supervisor – Chemical Engineering Part I Separations Course, Department of Chemical Engineering and Biotechnology, University of Cambridge, UK
- 2009: Research Assistant, Department of Chemical Engineering, University of Cape Town
- 2009: Tutor – Chemical Engineering Mass Transfer Course, Department of Chemical Engineering, University of Cape Town
- 11/2007 – 02/2008: Chemical Engineering Intern, Johnson Matthey Technology Centre, Sonning Common, UK

SCHOLARLY AND PROFESSIONAL ACTIVITIES

- External examiner:
 - CPUT, Reactor Technology IV RTI440C & RTI400S (2016, 2017)
 - SU, Reaction Engineering II, CE354 (2017)
 - SU, Final Year Project (“Skripsie”), CE478 | MP478 (2016, 2017)
- Reviewer for:
 - Journals: *Hydrometallurgy*, *Transactions of Nonferrous Metals Society China*, *SAIMM Journal*, *Water SA*
 - Books: Handbook of Chemical Engineering Calculations 5th Ed.
 - Conferences: IMPC 2014
 - Panels: NRF postdoctoral fellowship grants
 - Other: Cape Town Expo for Young Scientists judge
- Awards:
 - WISA MWD Symposium 2016, Best Session Award (Nov 2016)
 - WIEBE Excellence Award: Most Promising Young Woman: Research (Sept 2014)
 - Best Poster Prize winner, 10th International Bologna Conference on Magnetic Resonance in Porous Media (Sept 2010)

RESEARCH INTERESTS

Marijke’s research interests lie in bioprocess engineering, first initiated during her time as a Research Assistant at the Centre for Bioprocess Engineering Research (CeBER) in 2009 when she investigated algal carbon uptake mechanisms. Her work has since focussed on biohydrometallurgical processes, including heap bioleaching and bioflotation, and the development of novel methods for their study, including magnetic resonance imaging (MRI), X-ray μ CT and isothermal microcalorimetry (IMC).

RESEARCH SUPERVISION

	2014–
Postgraduate degrees completed under my supervision:	
MSc	1
PhD	-
Postgraduates currently under my supervision:	
MSc	3
PhD	3

PUBLICATION RECORD

	Pre-2014	2014–2017	In Press
In refereed journals and books:	3	10	-
Technical reports:	-	-	1
Presented at international conferences:	4	1	-
Presented at national conferences:	3	2	-
Patents:	-	-	1