

## Brief Curriculum Vitae (Version November 2014)

### PERSONAL INFORMATION

Family name, First name: Du Prez Filip

Researcher unique identifier(s): <http://www.researcherid.com/rid/B-6411-2008>

Nationality: Belgian

URL for website: [www.PCR.UGent.be](http://www.PCR.UGent.be)



### • EDUCATION

- 1996            **PhD** in Chemistry (funded by FWO – Belgium)  
Faculty of Sciences/ Department of Organic and Macromolecular Chemistry, Ghent University/ Belgium and partially in Lehigh University, USA (Prof. Sperling)
- 1992            **Master** in Chemistry with greatest Distinction  
Faculty of Sciences/ Department of Organic and Macromolecular Chemistry, Ghent University/ Belgium

### • CURRENT POSITIONS

- 1999 –            **Professor** (full Professor since 2010) and research leader Polymer Chemistry Research Group (*currently 20 PhD students, 4 postdocs, 2 technical staff, 6 master students*)  
Faculty of Sciences/ Department of Organic and Macromolecular Chemistry, Ghent University/ Belgium
- 2008 –            **Promotor-Coordinator** of *valorization consortium Chemtech*  
(<http://www.chemtech.ugent.be/en/>) gathering 15 UGent chemistry research groups

### • PREVIOUS POSITIONS

- 2008            **Visiting professor** (5 months)  
Centre for Advanced Macromolecular Design/ University of New South Wales/ Australia
- 1996 – 1999    **Postdoctoral position** (funded by FWO)  
University of Montpellier, France (10 months) and Department of Organic and Macromolecular Chemistry, Ghent University/ Belgium (26 months)

### • RESEARCH INTERESTS (see <http://www.pcr.ugent.be/research.html>)

*Main research fields:*

- . From polymer functionalization to absolute control
- . Dynamic and self-healing polymeric materials
- . Giving renewable polymers function(ality)

*Actual research topics:* self-healing polymer materials including coatings, vitrimers, multi-responsive polymer structures and gels, polymeric nano- and microparticles, conceptual development of novel 'click' and efficient linking methodologies for polymer functionalization, shape memory polymers, design of advanced copolymer structures (block, graft, tooth-brush,...), polymeric dispersants, thiolactone and triazoline dione chemistry.

### • FELLOWSHIPS AND AWARDS

*My coworkers have been the recipient of 10 international awards and 25 national awards since 2002*  
(<http://www.pcr.ugent.be/groupawards.html>)

- 2014            Nominated for UGent Prometheus Research Award
- 1996 – 1999    Postdoctoral fellowship FWO and mobility grant (National Science Foundation)
- 1995            Chemistry and Technology Award (1<sup>st</sup> laureate) from DSM company
- 1992 – 1996    PhD fellowship FWO and 2 mobility grants (National Science Foundation)

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

2000 – 2014 Daily supervision of 22 Postdocs/ 41 PhD's (actual supervision of 20 PhD's; 2 as copromotor )/ 58 Master Students  
In Department of Organic and Macromolecular Chemistry, Ghent University/ Belgium

Former postdocs and PhD's have taken **academic positions** (France, UK, NL, India, Argentina, Vietnam, China) and important **industrial positions** in chemical/material/life science companies such as 3M, Agfa, Allnex, Arkema, Bayer, BASF, Dow, DSM, Huntsman, Janssen Pharmaceutica, Lanxess, Recticel, Solutia.

- **TEACHING ACTIVITIES**

1999 – 2014 Assistant Professor, Full Professor – Courses in Organic Chemistry, Introduction to Polymer Science, Polymer Materials, Advanced Polymer Chemistry in Ghent University (both for Chemistry and Chemical Engineers)/ Belgium

- **ORGANISATION OF SCIENTIFIC MEETINGS in period 2004 – 2014 (N = national, I = international)**

2014 (N) Chairman Belgian Polymer Group Annual Meeting (220 participants) / Belgium  
2013 (I) Chairman ESF networking conference "Precision Polymeric Materials" (95 p) / Belgium  
2012 (I) Chairman 2<sup>nd</sup> Belgian-German Macromolecular meeting "Advanced Materials by Modular Strategies: From Synthesis to Industrial Applications" (145p) / Belgium  
2009 (I) Chairman 1<sup>st</sup> Belgian-German Macromolecular meeting "Controlled/Living Radical Polymerizations" (140p) / Belgium  
2007 (I) Chairman International Workshop "Functional polymer materials based on tailor-made macromolecules: synthesis, characterization and membrane applications" (80p) / Belgium  
2007 (I) Co-organizer 1<sup>st</sup> Symposium "Baekeland 2007: Thermosets – 100 years after Bakelite" (200p) / Belgium  
2006 (N) Chairman Belgian Polymer Group Annual Meeting (180 participants) / Belgium  
2004 (I) Co-Chairman Workshop "Aqueous Polymer Solutions and Gels: from chemistry and physics to applications" (60 participants) / Belgium  
2004 (I) Co-Chairman Belgium-Netherlands Symposium "Functional Polymer Materials" / Belgium

- **INSTITUTIONAL RESPONSIBILITIES (Selection)**

2008 – 2014 Member of UGent commissions "Industrial Research Funds" and "Heavy equipment"  
2006 – 2014 Member of the Faculty Council, Faculty of Sciences/ Ghent University/ Belgium  
2005 – 2014 Member of the Educational Committee Chemistry, Ghent University/ Belgium

- **COMMISSIONS OF TRUST (Selection)**

2008 – 2014 Editorial Board Member European Polymer Journal (impact factor 3.25)  
2007 – 2013 Member of the Chemistry Panel of the National Research Foundation (FWO)  
1999 – 2014 Member of Exam and/or Reader Commission 90 PhD theses (45 outside UGent)  
2013 – 2014 Material Science Review Panel of the Academy of Finland for project evaluations  
2008 – 2015 Member Steering Committees STIPOMAT/P2M-programs European Science Foundation  
2013 – 2014 Evaluator in Expert Panel Polymer Science for IWT (Belgian PhD fellowships)  
2004 – 2014 Member of Editorial Advisory Boards of some polymer journals such as "Journal of Macromolecular Science, Pure and Applied Science", "Reactive & Functional Polymers"

- **SCIENTIFIC REVIEWER**

Journal of the American Chemical Society, Science, Nature Chemistry, Polymer Chemistry, Angewandte Chemie, European Polymer Journal, Macromolecules, Macromolecular Chemistry and Physics, Progress in Polymer Science, Macromolecular Rapid Communications, Journal of Polymer Science, Polymer, Chemical Communications, Soft Matter, Advanced Materials, Advanced Functional Materials, ACS Macro Letters, ...

- **SOME REPRESENTATIVE PUBLICATIONS (2007 – 2014)**  
(I.F. = IMPACT FACTOR 2013)

**November 2014: H-Index 34, > 3600 Citations (all publications on <http://www.pcr.ugent.be/publications.html>)**

1. Stijn Billiet, Kevin De Bruycker, Frank Driessen, Hannelore Goossens, Veronique Van Speybroeck, Johan M. Winne and Filip E. Du Prez\*, Triazolinediones enabling click and transclick reactions, *Nat. Chem.*, 6(9), 815-821 (2014) I.F.: 23.30 Ranking 4/148 (Chemistry, multidisciplinary)
2. Hillewaere, Xander; Teixeira, Roberto; Nguyen, Le-Thu; Ramos, José; Rahier, Hubert; Du Prez, Filip\*, "Autonomous self-healing of epoxy thermosets with thiol-isocyanate chemistry", *Adv. Funct. Mat.*, 24, 5575–5583 (2014) I.F.: 10.44 Ranking 12/251 (Materials, multidisciplinary)
3. Pieter Espeel, Lieselot L.G. Carrette, Katarzyna Bury, Sven Capenberghs, Filip E. Du Prez\*, Annemieke Madder\*, Multi-functionalized sequence-defined oligomers from a single building block, *Angew. Chem. Int. Ed.* 52, 1 – 5 (2013) I.F.: 11.34 Ranking 11/148 (Chemistry, Multidisciplinary)
4. Pieter Espeel, Fabienne Goethals, Frank Driessen, Le-Thu T. Nguyen, Filip E. Du Prez\*, One-pot, Additive-free Preparation of Functionalized Polyurethanes *via* Amine-thiol-ene Conjugation, *Polym. Chem.*, 4, 2449 - 2456 (2013). I.F. 5.37 (cover page) Ranking 5/82 (Polymer Science)
5. Pieter Espeel, Fabienne Goethals, Milan M. Stamenović, Lionel Petton and Filip E. Du Prez\*, Double modular modification of thiolactone-containing polymers: towards polythiols and derived structures *Polym. Chem.*, 3, 1007-1015 (2012) I.F. 5.37 Ranking 5/82 (Polymer Science)
6. Claire F. Hansell, Milan M. Stamenović, Pieter Espeel, Ian A. Barker, Andrew P. Dove, Filip E. Du Prez\*, Rachel K. O'Reilly\*, Additive-free Clicking for Polymer Functionalization and Coupling by Tetrazine-Norbornene Chemistry, *J. Am. Chem. Soc.*, 133, 13828–13831 (2011) I.F.: 11.44 Ranking 10/148 (Chemistry, multidisciplinary)
7. Talha Gökmen, Jérémy Brassinne, Arun R. Prasath, Filip E. Du Prez\*, "Revealing the Nature of Thio-Click Reactions on Solid Phase", *Chem.Comm.*, 47, 4652–4654 (2011) I.F.: 6.72 Ranking 20/148 (Chemistry, Multidisciplinary)
8. Pieter Espeel, Fabienne Goethals and Filip E. Du Prez\*, One-pot multistep reactions based on thiolactones: extending the realm of thiol-ene chemistry in polymer synthesis, *J. Am. Chem. Soc.*, 133, 1678-1681 (2011) I.F. : 11.44 Ranking 10/148 (Chemistry, Multidisciplinary)
9. Tobias Kaufmann, M. Talha Gokmen, Christian Wendeln, Martin Schneiders, Stefan Rinnen, Heinrich F. Arlinghaus, Stefan A. F. Bon, Filip E. Du Prez\* and Bart Jan Ravoo\*, "Sandwich" Microcontact Printing as a Mild Route towards Monodisperse Janus Particles with Tailored Bifunctionality, *Adv. Mat.*, 23, 79-83 (2011) I.F. 15.41 Ranking 6/251 (Chemistry, Multidisciplinary)
10. Mieke Lammens, Jared Skey, Sofie Wallyn, Rachel O'Reilly and Filip Du Prez\*, "Polymeric ligands as homogeneous, reusable catalyst systems for copper assisted click chemistry", *Chem Comm*, 46, 8719-8721 (2010) (+ cover picture) I.F. 6.72 Ranking 20/148 (Chemistry, Multidisciplinary)
11. R. Arun Prasath, M. Talha Gokmen, Pieter Espeel, Filip E. Du Prez\*, "Thiol-ene and thiol-yne chemistry in microfluidics: a straightforward method towards macroporous and nonporous functional polymer beads", *Polym. Chem.*, 1, 685-692 (2010) I.F. 5.37 Ranking 5/82 (Polymer Science)
12. M. Talha Gokmen, Wim Van Camp, Patrick J. Colver, Stefan A. F. Bon, and Filip E. Du Prez\*, "Fabrication of Porous "Clickable" Polymer Beads and Rods through Generation of High Internal Phase Emulsion (HIPE) Droplets in a Simple Microfluidic Device", *Macromolecules*, 42, 9289–9294 (2009) I.F. 5.93 Ranking 3/82 (Polymer Science)
13. Lieven M. Van Renterghem, Mieke Lammens, Bart Dervaux, Pascal Viville, Roberto Lazzaroni, Filip E. Du Prez\*, "Design and use of nanoparticles prepared from star-shaped polymers with reactive end groups", *J. Am. Chem. Soc.*, 130(32), 10802-10811 (2008) I.F.: 11.44 Ranking 10/148 (Chemistry, multidisciplinary)

14. David Fournier, Filip Du Prez\*, "Click chemistry as a promising tool for side-chain functionalization of polyurethanes ", *Macromolecules*, 41, 4622-4630 (2008) I.F. 5.93 Ranking 3/82 (Polymer Science)
15. Irina N. Savina, Veerle Cnudde, Stijn D'Hollander, Luc Van Hoorebeke, Bo Mattiasson, Igor Yu. Galaev, Filip Du Prez\*, "Cryogels from poly(2-hydroxyethyl methacrylate): macroporous, interconnected materials with potential as cell scaffolds", *Soft Matter*, 9, 1176-1184 (2007) I.F. 4.15 Ranking 9/82 (Polymer Science)

- **SELECTION OF 5 REVIEWS (2007-2014)**

<i>Reference</i>	<i>I.F. (2013)</i>	<i>Ranking journal</i>
Talha Gokmen, Filip Du Prez*, Porous Polymer Particles – A Comprehensive Guide to Synthesis, Characterization, Functionalization and Applications, <i>Prog. Polym. Sci.</i> 37, 365-405 (2012)	26.85	1/82 (Polymer Science)
Bart Dervaux, Filip Du Prez*, Heterogeneous azide-alkyne click chemistry: towards metal-free end products, <i>Chem. Sci.</i> 3, 959-966 (2012)	8.60	14/148 (Chemistry, Multidisciplinary)
Christopher Barner-Kowollik, Filip E. Du Prez, Pieter Espeel, Craig J. Hawker, Thomas Junkers, Helmut Schlaad, Wim Van Camp (alphabetical order), "Clicking Polymers or Just Efficient Linking: What Makes the Difference?" <i>Angew. Chem. Int. Ed.</i> , 50, 60-62 (2011)	11.34	11/148 (Chemistry, Multidisciplinary)
E. Goethals, F. Du Prez, "Carbocationic polymerizations", <i>Progr. Polym. Sci.</i> , 32, 220-246 (2007)	26.85	1/82 (Polymer Science)
K. Bernaerts, F. Du Prez*, "Dual/heterofunctional initiators for the combination of mechanistically distinct polymerization techniques", <i>Progr. Polym. Sci.</i> , 31, 671-748 (2006)	26.85	1/82 (Polymer Science)