



Belgium



- Renewable Materials and Nanotechnology Research Group (Wim Thielemans, KU Leuven Campus Kortrijk)
- KU Leuven Materials Research Centre (Ignace Verpoest, KU Leuven)
- KU Leuven Campus Brugge (Frederic Desplentere, Kulab)
- Center of Innovation and Research in Materials and Polymers (Philippe Dubois, Umons)
- Textile Competence Centre (Jan Laperre, Centexbel)
- Flanders PlasticVision-Vlaams Kunststoffencentrum



Renewable Materials and Nanotechnology Research Group (Wim Thielemans, KU Leuven Kortrijk)

Relevant projects:

- Sustainable Production of Aerogels from Cellulose (2012-2016)
- Hierarchical nanostructured materials through nanoparticle self-assembly (2013-2018)

Specific expertise:

- Polysaccharide surface chemistry (e.g. XPS characterisation)
- Nanoparticle self-assembly
- Interactions between nanoparticles, polymers or particles with polymers



KULeuven Materials Research Centre (Ignaas Verpoest, KU Leuven)

Numerous projects on composite materials with natural fibre reinforcement (world-reknown research center). Focus on long-fibre composites

Note: Ignaas Verpoest has just retired but several people are stepping in and Ignaas is still active....



KULeuven Campus Brugge (Frederic Desplentere)

Numerous projects on composite materials with natural fibre reinforcement with focus on short fibre composites.

Scale-up and direct industrial applicability are key focus area.



Center of Innovation and Research in Materials and Polymers (Philippe Dubois, Umons)

Numerous projects on composite materials and renewable materials. E.g.

. Materials for Renewable Energy NaturE's Way: RENEW, NSF (USA), Partnerships for International Research and Education PIRE 2012: from October 2012 to September 2017

. Renewable eco-friendly poly(lactic acid) nanocomposites from waste sources : ECLIPSE

EU 7th Framework Program - Small Scale Project - NMP : from April 2012 to March 2015

. High performance multifunctional biopolymers for structural applications : HIGHBIOPOL

EU 7th Framework Program - ERA-NET "MATERA+" : from October 2010 to September 2013



Textile Competence Centre (Jan Laperre, Centexbel)
Flanders-PlasticVision-Vlaams Kunststoffencentrum

*Numerous projects on lignocellulose reinforced
composites and surface modification of fibres.
Participant in several FP7 projects on nanocellulose
composites*



- Extruders (including co-extrusion), injection moulding equipment and other thermoplastics processing equipment of all sizes (spread over several research centres)
- State of the art rheology equipment with experts in rheology at KU Leuven (Jan Vermant, Peter van Puyvelde, Paula Moldenaers, Christian Clasen)
- Light Scattering (dynamic and static)
- Highly sensitive thermodynamic measurement equipment (nW sensitivity)