

VITRIMAT ITN - 1st Training School



online
~~Ghent, Belgium~~
12 February 2021

Vitrimers: high performance materials
for cutting-edge applications

Local organizers (Ghent University)

Prof. Filip Du Prez

Prof. Johan Winne

Dr. Nezha Badi

Project coordinator (Lyon University)

Prof. Eric Drockenmuller

 **VITRIMAT**

<https://www.vitrimat.eu/>



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie Grant agreement No 860911. This presentation reflects only the author's view. The European Union is not liable for any use that may be made of the information contained herein.

Speakers

Tutorial lectures

Dr. Liesbeth Janssen

Eindhoven University of Technology, Netherlands



Dr. Haritz Sardon

University of the Basque Country, San Sebastián, Spain

Prof. Wim Van Paepegem

Ghent University, Belgium



Prof. Andreas Walther

Johannes Gutenberg University Mainz, Germany

Prof. François Tournilhac

ESPCI, Paris, France



Prof. Johan Winne

Ghent University, Belgium

Dr. Damien Montarnal

Université Claude Bernard, Lyon, France



Plenary lecture



Prof. Julia Kalow

Northwestern University, USA

The live stream will be available free of charge via this [link](#)
(no registration requested)

Program

10h-10h10: Opening remarks - **Filip Du Prez & Eric Drockenmuller**

10h10-12h10: Session 1 – chair: **Eric Drockenmuller**

10h10-10h40: **Liesbeth Janssen** “First-principles theory of vitrimer dynamics”

10h40-10h50: Break

10h50-11h30: **Haritz Sardon** “Emerging trends in non-isocyanate polyurethanes: From room temperature curing to vitrimers.”

11h30-12h10: **Wim Van Paepegem** “Vitrimer composites: challenges and opportunities in manufacturing, performance and recycling”

12h10-13h00: Lunch break

13h00-15h50: Session 2 – chair: **Johan Winne & Nezha Badi**

13h00-13h40: **Andreas Walther** “Bioinspired Nanocomposites”

13h40-14h20: **François Tournilhac** “Semicrystalline Vitrimers”

14h20-14h35: Break

14h35-15h15: **Johan Winne** “Understanding reactive covalent networks: thinking about reaction mechanisms and their relation to material properties”

15h15-15h55: **Damien Montarnal** “Deactivating vitrimers”

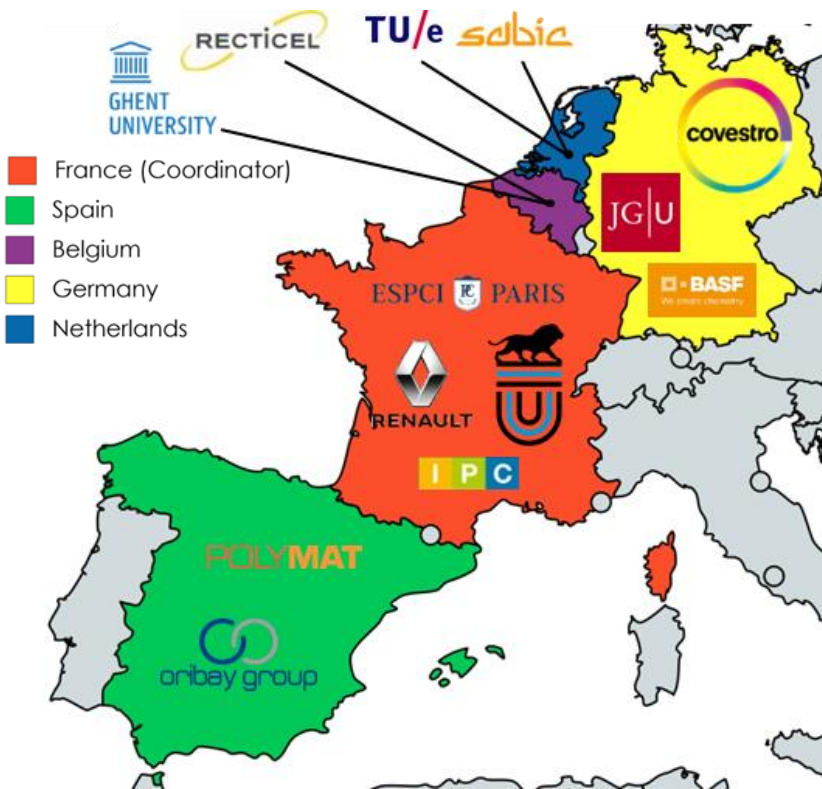
15h55-16h10: Break

16h10-17h00: **Plenary lecture** – chair: **Filip Du Prez**

16h10-17h00: **Julia Kalow** “Tuning vitrimer mechanics with prepolymer and crosslinker structure”

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About VITRIMAT



The **Marie Skłodowska-Curie Action ITN** “Training in VITRImers: high performance MAterials and Trainees for cutting-edge industrial applications” (VITRIMAT) is a European joint doctorate program, which aims at training **11 early stage researchers on vitrimers**.

The project combines the expertise and technologies of 6 academic partners pioneers in vitrimers and advanced composite materials - with 1 national technical center and 8 industrial partners (including 2 beneficiaries and 1 SME) that are world leaders in the chemistry, adhesives, thermosets and composites for consumer goods, construction and automotive applications.

The project is coordinated by **Prof. Eric Drockenmuller** (Lyon University, France) and will run from **March 2020 till February 2024**.

For more information see: <https://www.vitrimat.eu/>

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