

Raphaël Ménard

CEBB, Chemin des Sohettes - Route de Bazancourt
51110 Pomacle, France
☎ +33 (0)3 26 77 36 28
✉ rapahel.menard@agroparistech.com

Postdoctoral Researcher, Ph.D.

DOB: July, 4th 1989 (La Teste de Buch, 33 - France)

Research Topics

- Synthesis of new biobased polymers from ferulic acid derivatives

Present & previous positions

- Jan. 2016 - Present **Postdoctoral Researcher**, Chaire Agro-Biotechnologies Industrielles (ABI), Reims, France.
- 2012 - 2015 **Ph.D. student**, (with Pr. Laurent FERRY and Dr. Ghislain DAVID), Centre des Matériaux des Mines d'Alès and Institut Charles Gerhardt, Montpellier, France.
- 2012 **Master II PRO internship**, (with Dr. Frédéric LEISING), CHRYSO company, Issy les Moulineaux, France.
- 2010 **Licence internship**, (with Pr. Rénal BACKOV), Centre de Recherche Paul Pascal-CNRS, UPR 8641, Bordeaux, France.
- 2009 **DUT internship**, (with Dr Frédérique PICHAVANT), Unité Sciences du Bois et des Biopolymères-University of Bordeaux 1, Bordeaux, France.

Education

- 2012 - 2015 **Ph.D. in Physico-chemistry of polymer materials**, University of Montpellier, Montpellier, France.
- 2010 - 2012 **Master PRO Chemistry and Physico-chemistry of the polymer materials**, University of Bordeaux 1, Bordeaux, France.
- 2009 - 2010 **Licence in Chemistry**, University of Bordeaux 1, Bordeaux, France.
- 2008 - 2009 **DUT Chemistry**, IUT of Poitiers, Poitiers, France.

Undergraduate students supervision and supervision teaching

- 2 M.Sc. students in Chemistry
- Teaching of practical works of macromolecular chemistry to the engineer students (conventional radical polymerization, suspension/emulsion)

Scientific production

Summary:

- 6 publications and 1 review

- 4 oral communications
- 1 poster

Publications in peer-reviewed journals

1. Raphaël Ménard, Claire Negrell, Laurent Ferry, Rodolphe Sonnier and Ghislain David, *Synthesis of new flame-retardants by radical chain transfer copolymerization of glycidyl methacrylate and dimethoxy-phosphorylmethyl methacrylate*, European Polymer Journal, 57, 109-120.
2014
2. Raphaël Ménard, Claire Negrell, Laurent Ferry, Rodolphe Sonnier and Ghislain David, *Synthesis of biobased phosphate flame retardants*, Pure and Applied Chemistry, 86 (11) 1637-1650.
2014
3. Raphaël Ménard, Claire Negrell, Laurent Ferry, Rodolphe Sonnier and Ghislain David, *Synthesis of biobased phosphorus-containing flame retardants for epoxy thermosets. Comparison of additive and reactive approaches*, Polymer Degradation and Stability, 120, 300-312.
2015
4. Raphaël Ménard, Claire Negrell, Laurent Ferry, Rodolphe Sonnier and Ghislain David, *From phosphorus-containing epoxy monomer to fully biobased fire-retarded epoxy thermosets*, RSC Advances, 5, 70856 – 70867.
2015
5. Raphaël Ménard, Claire Negrell, *Retardateurs de flamme phosphorés commerciaux pour les polymères*, Techniques de l'ingénieur.
2015
6. Raphaël Ménard, Claire Negrell, *Retardateurs de flamme phosphorés du futur pour les polymères*, Techniques de l'ingénieur.
2015

Oral communications

- 2013 **Synthèse de cotéromères époxy-phosphonate**, *Raphaël Ménard, Claire Negrell, Laurent Ferry, Rodolphe Sonnier and Ghislain David*, GFP 2013 (Groupe Français des Polyméristes).
Montpellier(France)
- 2014 **Synthesis of new reactive phosphorus-containing flame retardants for epoxy materials**, *Raphaël Ménard, Claire Negrell, Laurent Ferry, Rodolphe Sonnier and Ghislain David*, POC 2014 (Polymer and organic Chemistry).
Timisoara (Romania)
- 2014 **Synthesis and flame retardancy characterizations of new bio-based phosphorus-containing epoxy thermosets**, *Laurent Ferry, Raphaël Ménard, Rodolphe Sonnier, Claire Negrell and Ghislain David*, BCC 2015 (Conference on Recent Advances in Flame Retardancy of Polymeric Materials).
Stamford (USA)

- 2015 **Synthesis of biobased phosphorus-containing flame retardants for epoxy thermosets comparison of additive and reactive approaches**, *Raphaël Ménard, Claire Negrell, Laurent Ferry, Rodolphe Sonnier and Ghislain David*, JPL 2015 (Journée des polyméristes Languedociens).
Montpellier (France)

Posters

- 2015 **Comparison Of Additive And Reactive Phloroglucinol-based Phosphorus/Sulfur-containing Flame Retardants In Epoxy Resin**, *Raphaël Ménard, Claire Negrell, Laurent Ferry, Rodolphe Sonnier and Ghislain David*, FRPM 2015 (Flame Retardancy of Polymeric Materials).
Berlin (Germany)