

# ***CURRICULUM VITAE***

## **PERSONAL PARTICULARS**

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## **Academic Position**

- Lecturer Class “A” in Polymer Processing at the University of Bejaia (Algeria)

## **Research Areas**

- Aspects of processing and structure-property relationships of polymer composites.
- Composite interfaces, thermoplastic composites and nanocomposites.
- Development of eco-composites: bio-based composites and recyclable all-polymer composites.
- Natural fiber composites, Nanocomposites, Biopolymers, Nanoclay, Cellulose and Cellulose Nanowhiskers.

## **Reviewer**

- Journal of Construction and Building Materials (Elsevier)
- Intercontinental Journal of Bio-agricultural sciences (IJBA)
- World Journal of Engineering and Physical Sciences (WJEPS)
- Industrial & Engineering Chemistry Research
- Polymer composites
- Bioresources

## **Books**

- A. Boukerrou, **D. Hammiche**, Cours de Chimie Organique. *Editions Pages Bleues Internationales*, ISBN: 978-9947-34-071-4, 2016.
- **D. Hammiche**, Effet d’un agent compatibilisant sur les performances des composites. Editions Universitaires Européennes, ISBN: 978-3-8417-4603-0, 2016.

## Book Chapter

- **D. Hammiche**, A. Boukerrou. Performances of composites based on alfa fiber “Stipa tenacissima”. In Rakesh Kumar (Eds), polymer-matrix composites: Type, Applications and performance. Nova Science Publishers, Inc, US, ISBN: 978-1-61122-005-6, pages 109-128 (2014).

## Research Paper

- Abdelhakim Benslimane, Iliès Mohamed Bahlouli, Karim Bekkour, Dalila Hammiche. Thermal gelation properties of Carboxymethyl cellulose and bentonite-Carboxymethyl cellulose dispersions: Rheological considerations. *Applied Clay Science* 132-133, 702-710 (2016).
- D. Hammiche, Amar Boukerrou, Hocine Djidjelli, Yves Grohens, Abdelkader Bendahou, Bastien Seantier. Characterization of cellulose nanowhiskers extracted from alfa fiber and the effect of their dispersion methods on nanocomposite properties. *Journal of Adhesion Science and Technology*, Volume 30, issue 17, pp. 1899-1912 (2016).
- D. Hammiche, A. Boukerrou, H. Djidjelli. Etude des Propriétés Physico-chimiques, Thermiques et Mécaniques des Fibres d’Alfa Grasses. *Revue des Composites et des Matériaux avancés*, Vol 25/1 pp.7-24 (2015).
- A. Boukerrou, D. Hammiche, H. Aouat, H. Djidjelli. Physical and Mechanical Properties of Polymer Composites Materials based on Olive Husk Flour. *Journal of Renewable Materials*, Volume 2, Number 4, pp. 249-257(9) (2014).
- D. Hammiche, Alain Bourmaud, Amar Boukerrou, Hocine Djidjelli, Yves Grohens. Number of processing cycle effect on the properties of the composites based on alfa fiber. *Journal of Thermoplastic Composite Materials* 1-18 (2014). DOI: 10.1177/0892705714563116
- D. Hammiche, A. Boukerrou, H. Djidjelli. « Effects of Types of PVC- Grafted Maleic Anhydride (PVC-g-MA) on the Morphology, Mechanical and Thermal Properties of Alfa Fiber Reinforced Polyvinyl Chloride Composites”. *Journal of Vinyl Additives and Technology*, 19, 225-232 (2013).
- D. Hammiche, A. Boukerrou, H. Djidjelli. Hydrothermal ageing of alfa fiber reinforced polyvinylchloride composites. *Construction and Building Materials*, 47, 293-300 (2013).
- A. Boukerrou, D. Hammiche, H. Djidjelli, Study of the Reprocessing Effects on the Behavior of the PVC/alfa Composites Compatibilized with PVC-g-MA, e-Proceedings

Montreal, Canada, The 19th International Conference on Composite Materials ICCM13, July 28- August 2, ISBN: 978-0-9696797-1-4, pages 101-108, (2013).

- D. Hammiche, A. Boukerrou, H. Djidjelli, M. Beztout, S. Krim. Synthesis of a new compatibilisant agent PVC-g-MA and its use in the PVC/alfa composites. *Journal of Applied Polymer Science*, Vol. 124, 4352-4361 (2012).
- A. Boukerrou, M. Beztout, H. Djidjelli, S. Krim, D. Hammiche. "The Effect of Chemical Treatment of Cellulose with Epoxidized Soybean Oil (ESO) on the Properties PVC/Cellulose Composites". *Molecular Crystals and Liquid Crystals*, 556:1, 223-232 (2012).
- M. Beztout, A. Boukerrou, H. Djidjelli, D. Hammiche, S. Krim. Influence de l'acétylation de la cellulose sur les propriétés physiques et diélectriques des composites PVC/cellulose . *Annales de Chimie*, vol 37(5-6), pp. 185-200 (2012).
- A. Boukerrou, N. Hamour, H. Djidjelli, D. Hammiche. Effect of the Different Sizes of the Alfa on the Physical, Morphological and Mechanical Properties of PVC/Alfa Composites. *Polymer Symposia*, 321-322 (1), 191-196 (2012).
- D. Hammiche, A. Boukerrou, H. Djidjelli, M. Beztout. " Effet d'un nouvel agent de couplage PVC-g-Ma sur les propriétés physiques et diélectriques des composites PVC/alfa". *Annales de Chimie*, vol 36/3, pp.125-137 (2011).
- D. Hammiche, Amar Boukerrou, Hocine Djidjelli, Yves Grohens. Effect of types of PVC-g-MA on wettability and dynamical behavior of polyvinyl chloride/alfa composites. *Journal of Materials and design*. Under review.
- D. Hammiche, Amar Boukerrou, Hocine Djidjelli, Yves Grohens. Correlation between composite behavior and processing techniques used. *Materials and design*. Under review.
- D. Hammiche, A. Boukerrou, J.Fernandez Beridi and H.Djidjelli. Effect of Alfa Fiber and its Cellulose Used as Reinforcement on Poly (Hydroxybutyrate-Co-Valerate) Composites Properties. *Journal of Colloid and Polymer Science*. Under review.
- D. Hammiche, A. Boukerrou, H. Djidjelli. Properties and applications of olive husk flour: a review. *Journal of Materials and Environmental Science*. Under Review.

### **International Conferences**

- D. Hammiche, A. Boukerrou, H. Djidjelli, Y. Grohens. Effect of types of PVC-g-MA on wettability and dynamical behavior of Polyvinyl/Chloride/alfa fiber composites. 6th International conference on Advances in Mechanical Engineering and Mechanics, 20-22 December 2015, Hammamet-Tunis, 2015.

- D. Hammiche, A. Boukerrou, H. Djidjelli, Y. Grohens. Correlation between composite behavior and processing techniques used. 6th International conference on Advances in Mechanical Engineering and Mechanics, 20-22 December, Hammamet-Tunis, 2015.
- D. Hammiche, A. Boukerrou, H. Djidjelli, Y. Grohens. Characterization of cellulose nanowhiskers extracted from alfa fiber and the effect of their dispersion methods on nanocomposites properties. Eurofillers Polymer Blends, April 26th-30th, Montpellier, France 2015.
- A. Boukerrou, D. Hammiche, H. Djidjelli, Effect of compatibilizing agent on the morphological, mechanical and thermal properties of PVC/olive husk flour composites, 2nd International Conference on Analytical Chemistry, Keynote on Advanced Material Analysis, Targovist Romania, September 17-21, 2014.
- A. Boukerrou , D. Hammiche, H. Djidjelli, Study of composite materials based on PVC loaded with olive husk flour, International Conference on Biobased Materials and Composites, ICBM'14, 13-16 May 2014, Montreal, Canada. 2014.
- A. Boukerrou, D. Hammiche, H. Djidjelli, Modification chimique d'alfa et son utilisation comme renfort dans les composites PVC/alfa, Workshop bio-composites, "les fibres de nouveaux challenges", 14-16 mars 2014, Iles de Kerkennah- Sfax- Tunisie, 2014.
- A. Boukerrou, D. Hammiche, H. Djidjelli, Study of the Reprocessing Effects on the Behavior of the PVC/alfa Composites Compatibilized with PVC-g-MA, The 19th International Conference on Composite Materials ICCM13, July 28- August 2, Montréal Canada, 2013.
- D. Hammiche, A. Boukerrou, H. Djidjelli, Yves Grohens, « Effet du recyclage mécanique sur les propriétés dynamiques des composites PVC/alfa ». 33<sup>ème</sup> Colloque GFP (Groupe Français d'Etudes et d'Applications des Polymères) Section Grand Ouest, Laboratoire d'Ingénierie des MATériaux de Bretagne, Université de Bretagne-Sud, Lorient (France), 4-8 juin 2012.
- A. Boukerrou, H. Aouat, D. Hammiche, H. Djidjelli. The effect of maleic anhydride grafted poly (vinylchloride) on the properties of wheat husk filled PVC composites. The 2nd International Conference on Biobased Materials and Composites. Marrakech (Morocco), February 22-24, 2012
- D. Hammiche, A. Boukerrou, H. Djidjelli, M. Beztout. « Elaboration et Caractérisation des Composites PVC/alfa en Présence d'un Agent Compatibilisant ». 2<sup>ème</sup> Conférence Internationale sur les Matériaux et les Structures en Composites, Université MOHAMED Boudiaf d'Oran, 28-30 Novembre 2011

## National Conferences

- D. Hammiche, A. Boukerrou, H. Djidjelli, Y. Yves Grohens, Compatibilizer effects on properties of polyvinyl chloride/alfa composites. CNCA'1, Bordj Bou Arreridj, 26-27 Avril 2016.
- S. Isadounene, A. Boukerrou, D. Hammiche, H. Djidjelli. Etude des biocomposites à base de la matrice polyacide lactique chargée par la farine de grignon d'olive. 5ème Séminaire National sur les Polymères (SNP-5), Université de Bejaia, 2-3 Décembre 2015.
- D. Hammiche, A. Boukerrou, H. Djidjelli, Caractérisation de la fibre d'alfa, 6èmes Journées de Chimie, Ecole Militaire Polytechnique, Alger, 24-25 mars 2015.
- A. Boukerrou, D. Hammiche, H. Djidjelli. Caractérisation des composites PVC/alfa après un vieillissement mécanique, 6èmes Journées de Chimie, Ecole Militaire Polytechnique, Alger, 24-25 mars 2015.
- D. Hammiche, A. Boukerrou, H. Djidjelli. Effect of types of PVC-g-MA on properties of polyvinyl chloride/alfa composites. JEMP'2013. Université de Bejaia, 2-3 Octobre 2013.
- D. Hammiche, A. Boukerrou, H. Djidjelli, M. Beztout, «Synthèse d'un nouvel agent de couplage PVC-g-MA et son Effet sur les propriétés physiques et diélectriques des composites PVC/alfa », Séminaire sur les 4èmes Journées de Chimie (Jch4), 29-30 mars 2011, EMP Bordj-El-Bahri, Alger.
- D. Hammiche, A. Boukerrou, H. Djidjelli, M. Beztout, «Absorption d'eau des composites PVC/alfa », 5ème Forum de Bejaia, l'Université et le Monde Productif, 27-30 juin 2011.
- D. Hammiche, A. Boukerrou, H. Djidjelli, M. Beztout. «Effet du taux de fibre sur les propriétés des composites PVC/alfa». 4ème Séminaire National sur les Polymères, Université de Bejaia, 21-22 Septembre 2011.
- D. Hammiche, A. Boukerrou, H. Djidjelli, M. Beztout, « Synthèse de l'agent de couplage et son utilisation dans les composites PVC/alfa », 4ème Forum de Bejaia, l'Université et le Monde Productif, 27-30 septembre 2010.