

FAY Fabienne
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CNU 33

Education, work experience and current position

- PhD, Development of non toxic biodegradable paints, facilitating the elimination of biofouling, director: Pr. Karine Réhel and Pr. Valérie Langlois, 2006, University of Southern Brittany
- Habilitated to supervise PhD students (HDR), Adhesion of organisms to abiotic surfaces : chemical and physical anti adhesive approaches, 2013, University of Southern Brittany

Summary of research activities and skills

- Polymer synthesis (biodegradable and functional polymers) for antifouling paints
- Characterization of polymers in seawater (hydration, biocides release)
- Formulation and evaluation of antifouling paints
- Development of analytical tools to study the activity of antifouling paints
- Adhesion and biofilms of micro-organisms (bacteria, microalgae) on coatings (Scanning Electron Microscopy, Confocal Laser Scanning microscopy)
- Study of activity of new compounds, study of their antifouling activity
- Mechanisms of adhesion of diatoms

Summary of teaching activities

Structural chemistry, Analytical chemistry, Biopolymers, Encapsulation, Formulation, Biofilms

Pedagogic and administrative duties

- Sudy director of Licence (Third year) Techniques for chemical and biological analysis
- Elected member of the council of Formation and Studies Life of the University of Southern Brittany and member of its formation commission
- Member of academic council
- Member of disciplinary commission of the University of Southern Brittany
- Elected member of the UFR SSI council

Publications

- Legendre G, Vallée-Réhel K, Linossier I, Faÿ F, Evaluation of ionically cross-linked chitosan coating aimed at eggs-protection. *International Journal of food sciences and Technology*, 2015, 50, 736-743
- Azemar F, Faÿ F, Rehel K, Linossier I, Development of hybrid antifouling paints. *Progress in Organic Coating*, (2015) 87, 10-19
- Lorient M, Linossier I, Vallée-Réhel K, Faÿ F. Hydrolytic degradation of P(CL-VL) copolymers : influence of molecular weight. *Journal of Applied Polymer Science* (2016) 133, 43007
- Zea Obando C, Linossier I, Kervared N, Zubia M, Turquet J, Faÿ F, Rehel K. Rapid identification of osmolytes in tropical microalgae and cyanobacteria by 1H HR-MAS NMR. *Talanta* (2016) 153, 372-380
- Faÿ F, Hawkins M, Réhel K, Grunla MA, Linossier I. Non-toxic, anti-fouling silicones with variable PEO-silane amphiphile content. *Green Materials* (2016) 4, 53-62