

Prof. Alain Deffieux 講演会

Giant Macromolecules: Synthetic Routes, Characterization and Specific Properties

Prof. Alain Deffieux, Laboratoire de Chimie des Polymères Organiques, CNRS-ENSCP, Université Bordeaux 1 16 avenue Pey-Berland 33607 Pessac Cedex France.

日時： 平成18年10月6日（金） 午後4時～5時30分

場所： 九州大学伊都キャンパス ウェスト4号館3階 物質系4番教室

Deffieux博士はボルドー第一大学（フランス）教授として、高分子精密合成化学の分野で活発に研究を展開しておられます。今回、韓国釜山で開催されるIUPAC International Symposium on Advanced Polymers for Emerging Technologiesに参加の途中で九州大学を訪問することになりましたので、上記講演会を企画致しました。多数御来聴下さいますよう御案内申し上げます。

An important today challenge in advanced materials aimed at the fabrication of polymeric nano-devices. One route relies on the development of new synthetic procedures allowing the design of very large macromolecules with specific chain architecture, which according to their chemical composition and structure can behave as isolated nano-object and/or self-organize intra or inter-molecularly, providing new well-controlled nanometer-size objects that are of interest in many technological domains.

Intensive research has been recently devoted to the synthesis of highly branched and hyperbranched macromolecules with star-, comb-like and dendritic architectures. Giant macromolecules that we have synthesized belong in some way to these categories. They exhibit bulk and solution properties that are completely different from their linear polymer homologs. Characterized by a high degree of branching Giant Macromolecules also possess a compact architecture, a specific and persistent shape (spherical, cylindrical...) and a very high number of reactive ends.

The preparation of some specific nano-structures using living polymerization techniques, which allow to control their chain parameters., i.e; size, shape, hydrophilic and hydrophobic balance, as well as their characterization by AFM imaging and finally some of their specific behavior and properties in the bulk and in solution will be presented.

連絡先：

九州大学大学院工学研究院応用化学部門（機能）
長村 利彦

〒819-0395

福岡市西区元岡 744 番地

TEL: 092-802-2878、FAX: 092-802-2880

E-mail: nagamura@cstf.kyushu-u.ac.jp