



共催:大阪府立大学分子エレクトロニックデバイス研究所

日時: 2019年3月15日(金)15:00-16:30 B5棟1B-39号室(予定)

演題: Self-Assembled Functional Dyes and Their Properties

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(インド科学・工業研究評議会一学際的科学技術国立研究所)

Ajayaghosht博士は、機能性色素や $\pi$ 共役分子を基盤とした超分子化学の第一人者で、研究成果は、Science, Adv. Mater, J. Am. Chem. Soc., Angew. Chem. int. Ed.をはじめ、著名な論文誌に多数報告されています。今回、日本学術振興会一インド科学技術庁の二国間交流事業で本学を訪問するのを機に、ご講演していただきます。多数の学域生、大学院生、教員の方々のご参加をお願いします。

Summary of the talk: Self-assembly of functional molecules using nencevalent interactions results m supramolecular inaterials, through spontaneous and controlled pathways. A variety of materials with diverse size, shape and properties can be prepared by self-assembly approach Depending upon the nature of the molecular building blocks, the resultant soft materials can be fluorescent, stimuli responsive, optically active or electrically conducting and hence can be used for a vanety of applications such as sensing, imaging, security etc. For example, earher we described the use of fluorescent molecular assemblies as TNT sensors and as security labels. Recently, we have reported x-conjugated diketopyrrolopyrrole (DPP) based self-assembly with high emussion quantum yield and amsotropic charge camer mobility Subsequently, a DPP- Amide based supramolecular organogel have been prepared, which transmits NIR light beyond 850 nm due to formation of H- and J-type aggregates. Results of these studies will be discussed

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