

第 7 8 回化学コロキウム / IAGEPC コロキウム

2 月 24 日 15:00 - 16:00

8 号棟 304 号室 (理学部大学院講義室)



講演者 Prof. E. E. B. Campbell

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クラスター科学で顕著な業績を上げている Campbell 先生に、ナノチューブに関する最近の研究成果をお話いただきます。皆様奮ってご参加ください。

"Carbon Nanotubes: Growth, Field Emission Properties and Nanoelectromechanical Devices"

Carbon nanotubes have awakened considerable interest due to their unique mechanical, electrical and thermal properties. In this talk I will discuss some of the experiments taking place at Gothenburg University connected with carbon nanotube research. Our main goal is to develop CVD-based production methods that will allow us to directly grow carbon nanotube devices on silicon chips using techniques that are compatible with present-day CMOS processing. I will also discuss the field emission properties of carbon nanotubes and will describe some of the nanoelectronic and nanoelectromechanical devices that we have made and characterized. In particular I will discuss a three-terminal carbon nanotube relay that is predicted to have properties of interest for a number of potential applications.

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