



グローバルCOE 講演会

日時：2010年12月24日 13:00-14:00

場所：工学部物理棟1階112講義室(吉田キャンパス)

NANOMATERIALS: THE ENVIRONMENTAL RISK

IS THERE SOME ROOM LEFT FOR ETHICS AND LAW?

Christian BYK

Secretary General, International Association of Law, Ethics and Science

Judge, Court of Appeal, Paris

ナノ材料の工学倫理に関する研究で有名なフランスのビク先生が、京大法学研究科を訪問する機会に、表記の題目で GCOE としてご講演いただくことになりました。講演のパワーポイントから抜き出した項目は次のとおりです。関心のある教員・学生はぜひご出席ください。

INTRODUCTION:

- Nanotechnology offers new scientific and industrial perspectives (in communication, energy...)
- However, the experience of nuclear energy and genetic engineering delivers us a message:
- The necessity to set up an appropriate societal reflection on risk acceptability and on our capacity of controlling such risk.

Why should we worry about nanomaterials?

- Nanoparticles can cross the biological barriers. As Nanoparticles can also penetrate the nucleus of a cell, carbonic nanotubes have been classified for their capacity to induce genetic mutations as potentially carcinogenic.
- Concerning transformation and degradation mechanisms, we know very little about the way they behave in air, soil, water or living organisms .
- A question rises: is there any risk created by a potential bioaccumulation?

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