

日米における環境リスク懸念物質研究の最新動向

- PFOS/PFOA および新規化学物質 -

◆ 概要:

独立行政法人産業技術総合研究所、環境管理技術研究部門、未規制物質研究グループではダイオキシン、コプラナ PCB 等、1950 年代以降の環境意識の高まりとともに注目されてきた人工化学物質にとどまらず、塩素化ナフタレン、臭素系難燃剤や今年 POPs 条約への追加が決定された PFOS を初めとする残留性人工フッ素化合物群など、国内で有害性が認識される前に先んじて様々な安全性評価を可能にするために、数多くの欧米アジア諸国共同研究者と連携、1996 年に国際共同実験室を設立し最先端の研究を行ってきました。

本研究室の最新の研究成果として、来る第 29 回ダイオキシン国際会議(DIOXIN2009 北京・中国、8 月)研究発表、第 13 回アジア国際化学会(The 13thACC 上海・中国、9 月)招待講演、The international symposium on environmental pollution, ecology and human health (EPEHH-2009、Tirupati・インド、7 月)招待講演で予定されている講演内容も含め、最新の研究成果について、研究講演会を開催します。

また今回、国際共同実験室の米国メンバーとして環境分析化学研究分野では最も有名(米国優秀科学者トップ 10, Thomson ISI, Highly Cited Researcher in Environment/Ecology)である、米国ニューヨーク州立大学 Wadsworth Center の K.Kannan 博士を迎え、米国における新規有害化学物質研究の最前線(研究開発・化学物質規制の動向)についてご講演いただきます。さらに、有機フッ素化合物に関する分解・無害化反応や環境動態解明のための基礎物理化学定数(ヘンリー定数等)の測定等も含め、下記のようなプログラムで講演を予定しております。K.Kannan 博士の講演を国内で聴講できる数少ない機会ですので、関係各位様、ふるってご参加下さい。

聴講無料・事前登録不要ですが、配付資料については先着順ですので早めにご参集下さい。

講演は英語及び日本語で行います。

- ◆ 日時: 2009 年 7 月 17 日(金)13:00-17:00
- ◆ 会場: 独) 産業技術総合研究所 つくば中央
中央第二事業所 第1会議室 (2-1C 棟 受付 029-861-5022、8 階)
本部・情報棟ではありません。受付で確認し、お間違えなきようお願いいたします。
- ◆ アクセス: http://www.aist.go.jp/aist_j/guidemap/tsukuba/center/tsukuba_map_c.html

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◆ プログラム

● 米国における新規有害化学物質研究の最前線(研究開発・化学物質規制)

—Perfluorochemicals と Pechlorate を中心に

Recent development of environmental chemistry of hazardous chemicals in USA -

Perfluorochemicals and Pechlorate

Kurunthachalam Kannan 博士

Wadsworth Center、ニューヨーク州立大学、教授

● 環境残留性有機フッ素化合物の分解・無害化反応の開発

堀 久男 グループ長

● PFOA の物理化学定数(ヘンリー定数、 SO_4^- 反応速度定数)の測定

忽那周三 主任研究員

● 飲料水中 PFOS 関連物質の国際比較と国際標準分析法 ISO25101”PFOS/PFOA”

山下信義 主任研究員

● 降雨・氷雪試料中の PFOS 関連物質(C2-C18)の包括的分析法開発

谷保佐知 研究員

● 降雨・氷雪による残留性有機フッ素化合物の環境負荷量の推定と国際比較

—日・米・中国・インド・フランス

Flux of perfluorinated chemicals through precipitation in Japan, USA and several other countries

Karen Kwok 博士課程研究員

● 香港干潟(Mai Po)における PFOS 関連物質の生物濃縮について

Partitioning behavior and tropic transfer of perfluorinated compounds in Hong Kong Mai Po shrimp ponds, China

Eva Loi 博士課程研究員

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