

FOLENS Syllabus

Subject Title: 海洋プラスチックの環境化学(環境化学特別講義Ⅱ)
Environmental Chemistry of Marine Plastics
[Special Lectures on Environmental ChemistryⅡ]

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|--------------------------|--------------------------|-------------------------|--------------|-----------------|---------------------|-------------|--------|
| Subject Category: | Water Environment | Department | MK | Credit | 0.5 | Code | 056437 |
| Semester | First/Spring | Day(s)/Period(s) | First/Spring | | | | |
| Class Format | Lecture | | | Location | | | |
| Instructor | 高田 秀重 [TAKADA Hideshige] | | | | | | |
| Office | | | | Email | shige@cc.tuat.ac.jp | | |

■ Outline & Target

Environmental chemistry of marine plastics

May 29th (Afternoon): We are going to Odaiba beach to collect plastic debris and plastic resin pellets

June 6th (Afternoon) : Viewing Movie "Trashed" or "Plastic : Real Seamonster" and lecture on marine plastics.

■ Course description

The global production of plastic has increased from 1.5 million tonnes in 1950 to 230 million tonnes in 2009, with an average annual growth of around 9%. Owing to poor management of plastic wastes on land, some plastic wastes reach the sea via various routes, including rivers and urban runoff. Some of the light plastics are stranded on beaches and some are accumulated in specific areas in the ocean. The ingestion of plastics by marine organisms has been reported. Toxic organic contaminants have been detected in marine plastics. Furthermore, it has been demonstrated that toxic chemicals associated with plastics ingested by seabirds are transferred to internal system of seabirds and are accumulated in the tissue of seabirds. Adverse effects of marine plastics and the chemicals on marine organisms are of great concern. This class gives you basic and latest information on the problems associated with marine plastics and the chemicals.

■ Prerequisites

Please send e-mail to me at shige@cc.tuat.ac.jp in advance, if you like to join the class.

■ URL

<http://www.pelletwatch.org/>

■ Language

English

■ Last update

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