

# Let's Challenge SDGs by developing Communication and Thinking skills

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## キーワード

Sustainable Development Goals (SDGs)/ Global Engineering/ Thinking Skills/ Educational Games/ Wastewater Treatment/ Aquaculture

## 分野等

一般教育科(英語)

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※ [at] を @ に変えてください

## 職名

助教

## 学位

PhD (Engineering)

## 研究分野

### Environment System Engineering

- Wastewater Treatment Technologies/ Aquaculture Engineering
- Solid Waste Treatment

### Education

- Education for Sustainable Development Goals
- English Communication for Engineering Students

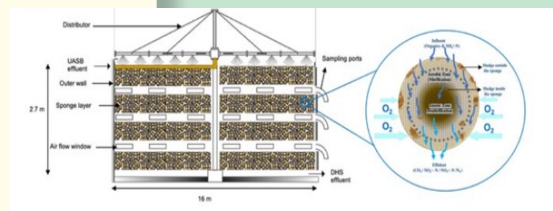


Fig. 1 Configuration of DHS reactor and cross section of the sponges used in it.

## 興味のあること・技術 PR

### 1. Development of sustainable treatment technologies

Our research is focused on the development of sustainable wastewater treatment units using different generations of trickling filter based system called Downflow Hanging Sponges (DHS). DHS has been widely studied for municipal, industrial, aquaculture and other kinds of wastewater treatment. For solid waste, we are also working for the sustainable waste reduction by using Black Soldier Fly Larvae(SBFL). If you interested to work for wastewater treatment and aquaculture, lets collaborate!

### 2. English for Engineering Students

We are interested in fostering English communication skills of Engineering skills by problem based learning activities which helps to enhance their thinking skills (e.g. logical, critical and design). Besides, we are extensively involved in the SDGs education as its time for us to act now. If you are interested in SDGs and English communication activities, contact us to open new horizons of fun and interactive learning.



Fig. 2 Different generations of DHS sponges



Fig. 3 Problem based Learning for solving SDGs

## 企業との連携実績

Plantform: Biomass circulation process based on BSFL.

## つながりたい分野(産業界、自治体等)

In order to teach SDGs we want to collaborate with game developers for making interactive SDGs educational materials.



Fig. 4 SDGs educational games