

Special Lecture - HOT TOPICS on AGRICULTURE -

Lecturers:

Osama Eljamal, Senior Assistant Professor, International Education Center, Kyushu Univ.

Tsuyoshi Kajisa, Assistant Professor, Faculty of Agriculture, Kyushu Univ.

Hiroyuki Hamada, Assistant Professor, Faculty of Agriculture, Kyushu Univ.

Shinji Fukuda, Assistant Professor, Faculty of Agriculture, Kyushu Univ.

Taiki Futagami, Assistant Professor, Faculty of Agriculture, Kyushu Univ.

Koji Yamamoto, Assistant Professor, Faculty of Agriculture, Kyushu Univ.

Koki Fujita, Assistant Professor, Faculty of Agriculture, Kyushu Univ.

Akiko Nakano, Postdoctoral Research Fellow, Institute of Tropical Agriculture, Kyushu Univ.

Credit: 1 credit

Evaluation: 50% Class attendance, 50% Report submission

Lecture Schedule:

Class	Theme	DATE	TIME	ROOM
1	<i>Environmental Engineering and Bioremediation (Senior Asst. Prof. Osama Eljamal)</i> · The lecture will contain An Overview of Environmental Engineering, Bioremediation Processes and Application of Bioremediation to Nitrate Removal	Oct.29 (Mon)	10:30-12:00	Room 1, 21st Century Plaza
2	<i>Biological Systems Modeling and Analysis (Asst. Prof. Hiroyuki Hamada)</i> · discuss mathematical analyzing method for biological system, and enhance understanding of the utility of computational biology	Oct.30 (Tue)	10:30-12:00	
3	<i>Mathematical Modeling for Water and Environmental Conservation (Asst. Prof. Shinji Fukuda)</i> · This lecture introduces the basic concepts of mathematical modeling for water and environmental conservation. Some examples on its application to agriculture and ecology will be presented in the lecture.		13:00-14:30	
4	<i>Microorganisms can help our ground safety (Postdoctoral Akiko Nakano)</i> · Discuss the basic idea about new Geo-technology called “BioGrout”, which is unique technique for soil improvement and remediation associating Microbiology with Geo-Technology	Oct.31 (Wed)	10:30-12:00 (45mim)	
5	<i>Bacterial dehalogenation in anaerobic environment (Asst. Prof. Taiki Futagami)</i> · talk about dehalogenating bacteria that have been applied to detoxification of soil and ground water contaminated with chlorinated solvents		13:00-14:30	
6	<i>Insect Genetic Resources (Asst. Prof Koji Yamamoto)</i> · discuss history, use and application of the Insect Genetic Resources	Nov.2 (Fri)	10:30-12:00	
7	<i>Metabolism of terpenes and its research methodology in plants (Asst. Prof. Koki Fujita)</i> · talk about the terpene bio-synthesis in plants and introduce some classical and current research methods to reveal them.		13:00-14:30	
8	<i>Forest Change Assessment (Asst. Prof. Tsuyoshi Kajisa)</i> · discuss how to evaluate the forest change (deforestation, forest degradation, forest dynamics)	Nov.5 (Mon)	10:30-12:00	