

[Workshop 1]**Development of Phyto-technology for Decreasing Heavy Metal in Food****Conveners: Tomohito Araki and Tomoyuki Makino**

- October 6 (Tue) 9:00 – 17:00, October 7 (Wed) 9:00–12:00, October 8 (Thu) Field Investigation
- Epochal Tsukuba, Room 102
- Language: English
- Co-organized by: Institute of Soil Science, Chinese Academy of Sciences
Food and Fertilizer Technology Center for the Asian and Pacific Region
- Supported by: Japan Science and Technology Agency (Project: JST Japan and China Program)
- Program

October 6 (Tue)

W1-01	09:00–09:30	From green to clean: a promising and sustainable approach to remove toxic metals from contaminated soils	Jean-Paul Schwitzguebel, Swiss Federal Institute of Technology, Switzerland
W1-02	09:30–10:00	Phytoextraction and management options to reduce cadmium and arsenic in food crops	Fang-Jie Zhao, Rothamsted Research Center, UK
W1-03	10:00–10:30	Phytoextraction of Cd by rice capable of accumulating Cd at high levels	Masaharu Murakami, National Institute for Agro-Environmental Sciences, Japan
W1-04	10:30–11:00	Rhizosphere characters of zinc and cadmium contaminated soil after continuous phytoextraction by <i>Sedum plumbizincicola</i>	Longhua Wu, Institute of Soil Science, Chinese Academy of Sciences, China
W1-05	11:00–11:30	Engineering Poplar Plants for Phytoremediation	Youngsook Lee, Pohang University of Science and Technology, Korea
W1-06	11:30–12:00	Tolerance mechanisms in cadmium-exposed <i>Eichhornia crassipes</i> Mart. Solms, a phytoremediator	Gilda C. Rivero, University of the Philippines, Philippines
	12:00–13:00	Lunch	
W1-07	13:00–13:30	Challenges to use genetic selection for reducing Cd concentration in crops	Cynthia Grant, Agriculture and Agri-Food Canada, Canada
W1-08	13:30–14:00	Genetic and physiological approach to elucidation of Cd absorption mechanism by rice plants	Satoru Ishikawa, National Institute for Agro-Environmental Sciences, Japan

W1-09	14:00-14:30	Role of root functions on cadmium uptake by plants – structural aspects of root organization	Alexander Lux, Comenius University in Bratislava, Slovak Republic
W1-10	14:30-14:50	Reduction of cadmium uptake of eggplant (<i>Solanum melongena</i>) by grafting onto <i>Solanum torvum</i> rootstock and characterization of cadmium translocation from roots to shoots	Tomohito Arao, National Institute for Agro-Environmental Sciences, Japan
	14:50-15:40	Poster Session	
W1-11	15:40-16:10	Impact of use of As contaminated groundwater on soil As content and paddy rice production in Bangladesh	John M. Duxbury, Cornell University, USA
W1-12	16:10-16:40	Mechanisms of Arsenic Uptake and Metabolism by Plants: Focusing on Rice	Guo-Xin Sun, Research Centre for Eco-Environmental Sciences, China
W1-13	16:40-17:00	Remediation of As-polluted soil by plants	Nobuyuki Kitajima, Fujita Co., Japan

October 7 (Wed)

W1-14-01	09:00-09:30	Spatial Dependency of Arsenic in Soils, Irrigation Water and Plants from Arsenic Contaminated Tube Well Used for Irrigation in Boro Rice Cultivation	Md. Shahjahan Kabir, Bangladesh Rice Research Institute, Bangladesh
W1-14-02	09:30-10:00	Arsenic in soil, water and plant at contaminated sites and in agricultural soil of Thailand	Orathai Sukreeyapongse, Office of Science for Land Development, Thailand
W1-14-03	10:00-10:30	Phytoremediation and the uptake characteristics of different rice varieties growing in Cd-or As-contaminated soils in Taiwan	Zueng-Sang Chen, College of Bioresources and Agriculture, Taiwan
W1-14-04	10:30-11:00	In-Situ Stabilization of Arsenic-Contaminated Soil Using Industrial By-Products	Sang-Hwan Lee, Mine Reclamation Corporation Coal Center, Korea
W1-14-05	11:00-11:30	Mechanism and source of arsenic contamination in groundwater in Bangladesh	Takaaki Itai, Ehime University, Japan
	11:30-12:00	Discussion	

October 8 (Thu)

08:00-17:00 Field Investigation			
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