

The Final International Meeting for 21st Century Center of Excellence(COE) Program “Development of New Bioremediation Systems of Acid Sulfate Soil for Agriculture and Forestry”

Date: February 29 (Friday) 10:00 ~ 18:15

Venue: Auditorium in Main Building of College of Bioresource Sciences, Nihon University Program

Opening

10:00 ~ 10:20 Opening session

10:20 ~ 10:35 Objectives of the 21st Century COE Program “Development of New Bioremediation Systems of Acid Sulfate Soil for Agriculture and Forestry” Satohiko Sasaki (Leader of 21st Century COE Program, Nihon University)

Session 1; Site reports on the collaborative field research in Thailand, Vietnam and China

10:35 ~ 11:00 Site report of the field research in Thailand (D.J. Kang and P. Vijarnsorn)

11:00 ~ 11:25 General description of research project for Acid Sulfate Soils in Mekong Delta, Vietnam (H. Sumida, M. Kawahigashi, H. Uchiyama, T. Aizawa, K. Tada, S. Ueda, N. M. Do, H. N. Ngo and V. B. Nguyen)

11:25 ~ 11:50 Research activity report in Hainan Island, China: crop production, land use and land cover analysis on Acid Sulfate Soil (J. Wang, W. Wu, W. Deng, K. Kuwamura, I. Gotoh, Y. Nakayama, Y. Konohira and A. Noguchi)

11:50 ~ 12:50

Lunch

Session 2; Research reports in the field of Agronomy

12:50 ~ 13:05 Identification of Acid Sulfate Soil tolerant rice varieties and their tolerance mechanism (R. Ishii and D.J. Kang)

13:05 ~ 13:20 Genome and transcriptome analyses for acid tolerance in rice : phosphorous deficiency and low pH stress (A. Shimizu, K. Kato, A. Komatsu and H. Ikehashi)

Session 3; Research reports in the field of Plant Science

13:20 ~ 13:35 Overview and major outcomes in the plant science field (I. Hasegawa)

13:35 ~ 13:50 Planting performance of tropical trees on Acid Sulfate Soil and their responses to aluminum and low pH stresses (K. Tahara, M. Iimayuki, M. Norisada, T.Yamanoshita, K. Kojima, T. Nuyim, D.J. Kang, P. Vijarnsorn, I. Hasegawa and S. Sasaki)

13:50 ~ 14:05 Approaches to the symbiotic nitrogen fixing systems tolerant to Acid Sulfate Soils (T. Aoki, R. Imaizumi, M. Shimamura, S. Sawai, Y. Sawada, N. Nukui, K. Ihara, K. Tanaka, T. Sugeta, S. Hamada, M. Araki, M. Tobe, Y. Yajima, R. Watanabe, Y. Kobori, K. Hattori, K. Kawanishi, H. Morita, Y. Ogawa, K. Saito, H. Uchiyama, T. Akashi and S. Ayabe)

14:05 ~ 14:20 Inventory of wild plants growing in the Acid Sulfate Soils in Thailand and Vietnam (H. Uchiyama)

Poster Presentation

14:20 ~ 14:50 Summaries of poster presentation by young scientists

14:50 ~ 15:40 Poster standing time and Coffee break

Session 4; Research reports in the field of Microorganisms

15:40 ~ 15:55 Overview of microorganisms isolated from Acid Sulfate Soils (T. Tokuyama)

15:55 ~ 16:10 Analysis of microbial diversity, isolation of ammonia- oxidizing and sulfur-oxidizing bacteria in Acid Sulfate Soil (R. Takahashi, K. Satoh and T. Tokuyama)

16:10 ~ 16:25 Application of symbiotic bacteria isolated from plants adapted to actual Acid Sulfate Soil (T. Aizawa, V. B. Nguyen, P. Vijarnsorn, K. Kimoto, S. Sasaki, M. Nakajima and M Sunairi)

Session 5; Research reports in the field of Soil Science, Earth Chemistry and Topography

16:25 ~ 16:40 Acid Sulfate Soils in the Central Plain, Thailand and the Mekong Delta, Vietnam: overview and major outcomes (S. Ueda, D.J. Kang, S. Nagasaka, K. Ishitani, P. Vijarnsorn, T. Waragai, H. Sumida, M. Kawahigashi, K. Tada, N. M. Do and V.B. Nguyen)

16:40 ~ 16:55 Improvement of reclamation methods for Acid Sulfate Soil (S. Nagasaka, E. Kohno, D. J. Kang, S. Ueda, S.Ishikawa and P. Vijarnsorn)

16:55 ~ 17:10 Spatial variability and geomorphic features of Acid Sulfate Soils in the central plain of Thailand (Tetsuya Waragai)

Session 6; Research reports in the field of Social Science

17:10 ~ 17:25 The research activities and some findings by Social Science Group (K. Hanzawa)

17:25 ~ 17:40 Development of horticulture on Acid Sulfate Soil area in the Ongkharak of Nakhon Nayok, Thailand (K. Mizushima and T. Yamamoto)

17:40 ~ 17:55 Socio-economic evaluation on farmers' action of countermeasure to Acid Sulfate Soil (R. Matsumoto)

17:55 ~ 18:15 Summarization of perspective for research of 21st Century COE Program Satohiko Sasaki (Leader of 21st Century COE Program, Nihon University)

18:30 ~ Farewell buffet party (Restaurant building 3 F, NUSC hall)

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