

International Symposium 2017 for Young Researchers
“Current Status of Sugarcane Research and its Innovation in
Okinawa and Thailand”

3rd August, 2017, 13:30 – 17:50
Okinawa Prefectural Agricultural Research Center

13:30 - 13:55

Opening Remarks

Welcome greetings and Introduction of the Okinawa Prefectural Agricultural Research Center

Dr. Yoshiaki Shinzato, Director

Dr. Klanarong Siroth, Professor, Kasetsart University, Thailand

Oral Presentation

14:00 – 15:30 **Session 1: Agronomy and Agricultural Engineering**
Chairman: Kenta Watanabe

1. Sugarcane production in Vietnam and new idea for study on stress physiology
Dinh Thai Hoang, Kenta Watanabe, Hiroo Takaragawa and Yoshinobu Kawamitsu
The United Graduate School of Agricultural Sciences, Kagoshima University
(Vietnam National University of Agriculture, University of the Ryukyus)
2. Varietal mixture: effective use of existing varieties in sugarcane
Hiroo Takaragawa and Yoshinobu Kawamitsu
The United Graduate School of Agricultural Sciences, Kagoshima University
(Faculty of Agriculture, University of the Ryukyus)
3. Efficient Test Sites for Multi-environment Evaluation of Sugarcane Genotypes
P. Klomsa-ard, A. Patanothai, K. Siroth
Mitr Phol Sugarcane Research Center
4. Construction of cooperative work model for small-sized sugarcane harvester and carrying machine
Saki Akamine and Takeshi Shikanai
Faculty of Agriculture, University of the Ryukyus
5. The estimation of performance for the small sugar cane harvester in Okinawa
Yoshiaki Shinzato, Hayato Komesu, Toru Akachi, Masami Ueno

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6. The Study of the Soil Texture Parameter in the Upland of Khon Kaen Province; Thailand.
Kridsana Tianmanee, Seree Wongpichet, Eizo Taira, and Masami Ueno,
Saengprachatanarug Khwantri
Department of Agricultural Engineering, Kohn Kaen University

15:30 - 16:10

Break and Poster Session

16:10 – 17:40 **Session 2: Sensing and Processing**

Chairman: Hiroo Takaragawa

7. Sensory and chemical analysis of kokutou produced in Okinawa, Japan, for the development of its production in Thailand
Kenta Watanabe, Pisittinee Chapanya, Duangrudee Wangpoomyai,
Nuttapong Kumpan, Klanarong Sriroth
Mitr Phol Sugarcane Research Center
8. Identification of sugarcane and trash using hyper spectral imaging
Kittipon Aparatana Eizo Taira and Saengprachatanarug Khwantri
Department of Agricultural Engineering, Kohn Kaen University
9. The basic study on quality evaluation of fresh and deteriorated cane samples using Near infrared spectroscopy
Yoshinari Izumikawa, Syota Irei and Eizo Taira
The United Graduate School of Agricultural Sciences, Kagoshima University
(Faculty of Agriculture, University of the Ryukyus)
10. Effect of molasses temperature on visible and near infrared spectra for NIR prediction performance
Pisittinee Chapanya, Rattana Muangmontri, Rutchadaporn Nootas,
Anutin Pattamasuwan and Klanarong Sriroth
Mitr Phol Sugarcane and Research Center
11. Development of cane stalk analysis system for portable NIR with interactance probe
Eizo Taira, Hazuki Ginama, Kenta Watanabe, Yoshinobu Kawamitsu, Masami Ueno
and Saengprachatanarug Khwantri
Faculty of Agriculture, University of the Ryukyus
12. Portable near-infrared (NIR) spectrophotometer for measuring sugar content of sugarcane
Rutchadaporn Nootas, **Pisittinee** Chapanya, Anutin Pattamasuwan,
Klanarong Sriroth, Wirat Vanichsiratana and Ronnarit Rittiron³

17:40 - 17:50

Closing Remarks

15:30 - 16:10

Poster Presentation

P-1. Work Analysis of the Small-sized Sugarcane Harvester (36kW) Using GPS and Drive Recorder

Kouta Yokaryo and Takeshi Shikanai

Faculty of Agriculture, University of the Ryukyus

P-2. Growth of sugarcane in Aichi Prefecture

Shozo Okada, Masami Ueno and Yoshinobu Kawamitsu

Faculty of Agriculture, University of the Ryukyus

P-3. Development of quality evaluation system for sugar mill using near infrared spectroscopy

Shota Irei, Yoshinari Izumikawa, Masami Ueno and Eizo Taira

Faculty of Agriculture, University of the Ryukyus

P-4. Studies on sugarcane cultivation in Osaka

Kaho Terasawa, Shin-ichi Ishida

Osaka Prefectural Engei Senior High School

18:30 – 21:00

Party at Okinawa traditional Izakaya “Pai-Kaji” in Naha City

Executive Committee

Hiroo Takaragawa

Kenta Watanabe

Yoshinari Izumikawa

Dinh Thai Hoang

Eizo Taira

Yoshiaki Shinzato

Yoshinobu Kawamitsu

Masami Ueno

Sponsorship

Okinawa Agriculture Research Society

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