EVENT REPORT

4th-2021 Partnership Colloquium on

Agricultural and Environmental Engineering

Organized by

TOKYO UNIVERSITY OF AGRICULTURE

HOCHSCHULE OSNABRÜCK
UNIVERSITY OF APPLIED SCIENCES

KHON KAEN UNIVERSITY

November 17, 2021 (online)

List of Participants

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Osnabrück University of Applied Sciences (9 participants)

Prof.	Dieter Trautz	(*d.trautz@hs-osnabrueck.de*)
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Mr.	Janis Bald	(*janis.bald@hs-osnabrueck.de*)
Mr.	Hannes Hollmeier	(*hannes.hollmeier@hs-osnabrueck.de*)

Khon Kaen University (12 participants)

Assoc. Prof.	Chuleemas Boonthai Iwai	(*chuleemas1@gmail.com*)
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Yezin Agricultural University

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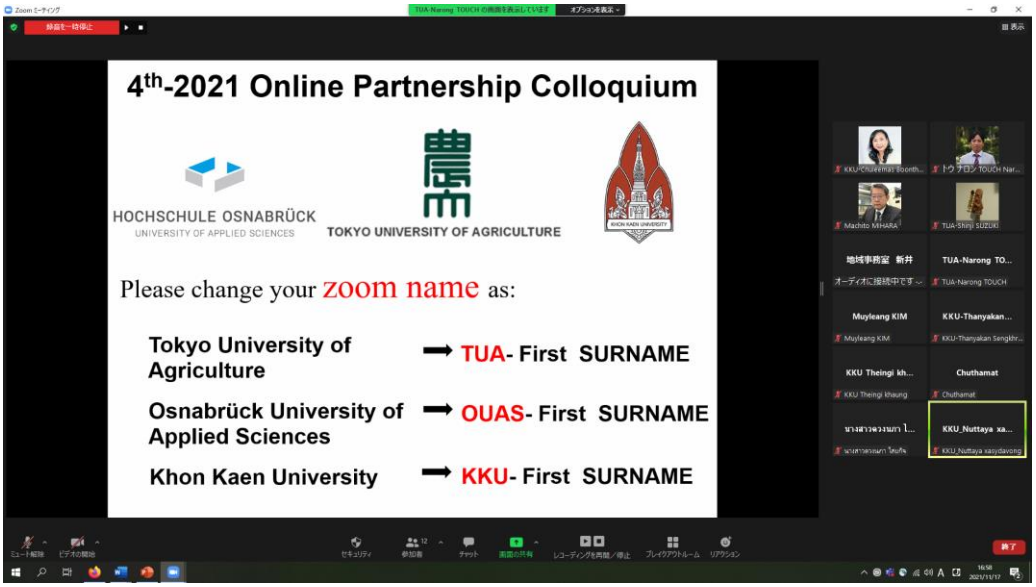
Group Photo


4th-2021 Online Partnership Colloquium
HOCHSCHULE OSNABRÜCK
UNIVERSITY OF APPLIED SCIENCES
TOKYO UNIVERSITY OF AGRICULTURE
Please change your zoom name as:
Tokyo University of Agriculture ➞ TUA- First SURNAME
Osnabrück University of Applied Sciences ➞ OUAS- First SURNAME
Khon Kaen University ➞ KKU- First SURNAME


TUA-Narong TO...
KKU-Chuthamat...


TUA-Narong TO...
TUA-Sokly SORM

Colloquium Program

Time in Tokyo (JST)

(17:00-17:05) 1. Opening *by Assoc. Prof. Dr. Narong Touch*

(17:05-17:10) 2. Opening remarks *by Prof. Machito Mihara*
(Dean of the center for Global Initiatives, Tokyo University of Agriculture)

(17:10-18:40) 3. Presentations and Discussion
(20 min for presentation, 10 min for Qs and As)

From Tokyo University of Agriculture

(17:10-17:40) 3-1 Estimation of tea leaf chemical components using UAV remote sensing imagery in a Shizuoka tea garden
Mr. Kazuki MATSUURA
Utilization of spectral reflectance information from UAV imagery for SMART AGRICULTURE
Prof. Dr. Sawahiko SHIMADA

From Osnabrück University of Applied Sciences

(17:40-18:10) 3-2 The Influence of protective nets on the infestation of Sitona lineatus in faba beans
Mr. Janis Bald
Digitization of farms by deploying and networking various sensors
Mr. Hannes Hollmeier

From Khon Kaen University

(18:10-18:40) 3-3 Vermi−filtration and Vermi-remediation: Ecological and sustainable green technology for agricultural wastewater treatment and agro-waste management.
Assoc. Prof. Dr. Chuleemas Boonthai IWAI

(18:40-18:50) 4. Group photo and Questionnaire

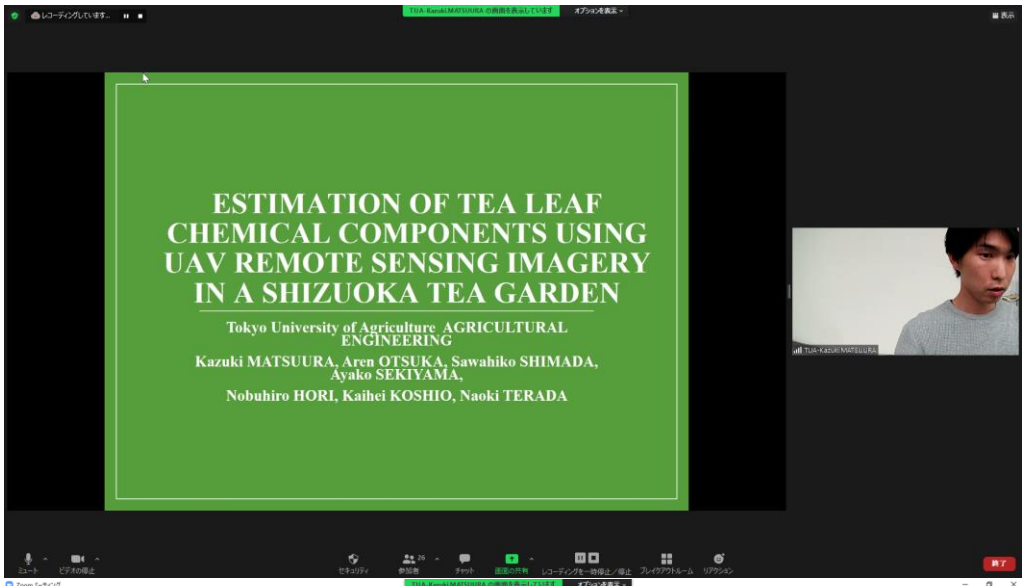
(18:50-19:00) 5. Closing remarks

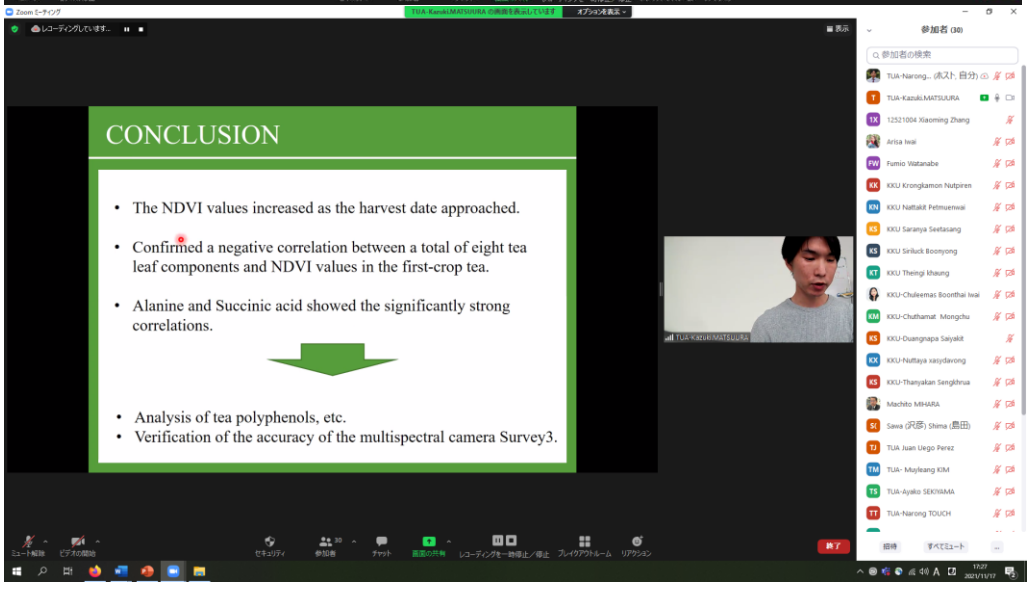
Prof. Dr. Dieter Trautz
(From Osnabrück University of Applied Sciences)

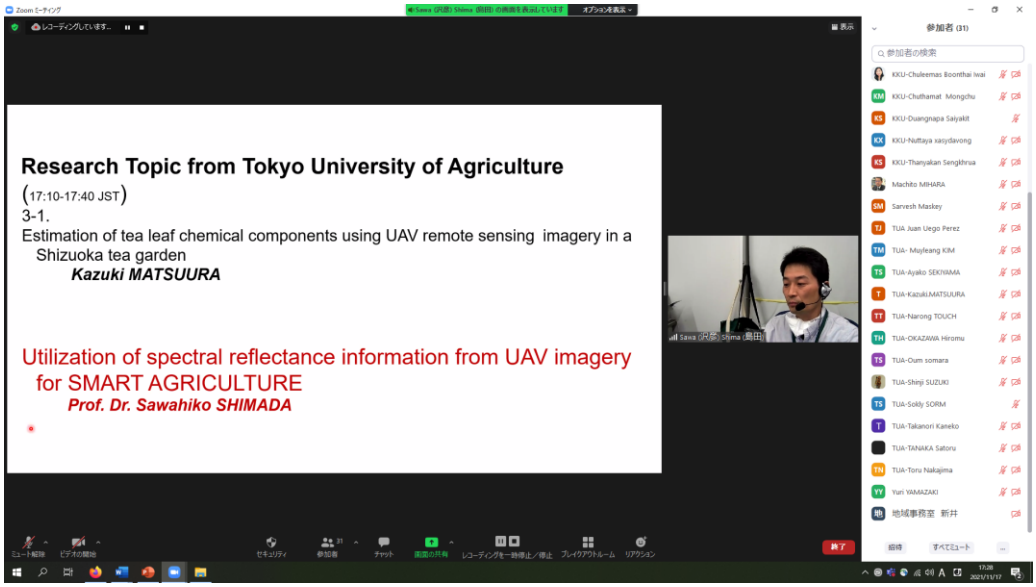
Assoc. Prof. Dr. Chuleemas Boonthai IWAI
(From Khon Kaen University)

Opening remarks *by Prof. Machito Mihara*

Presentations and Discussion

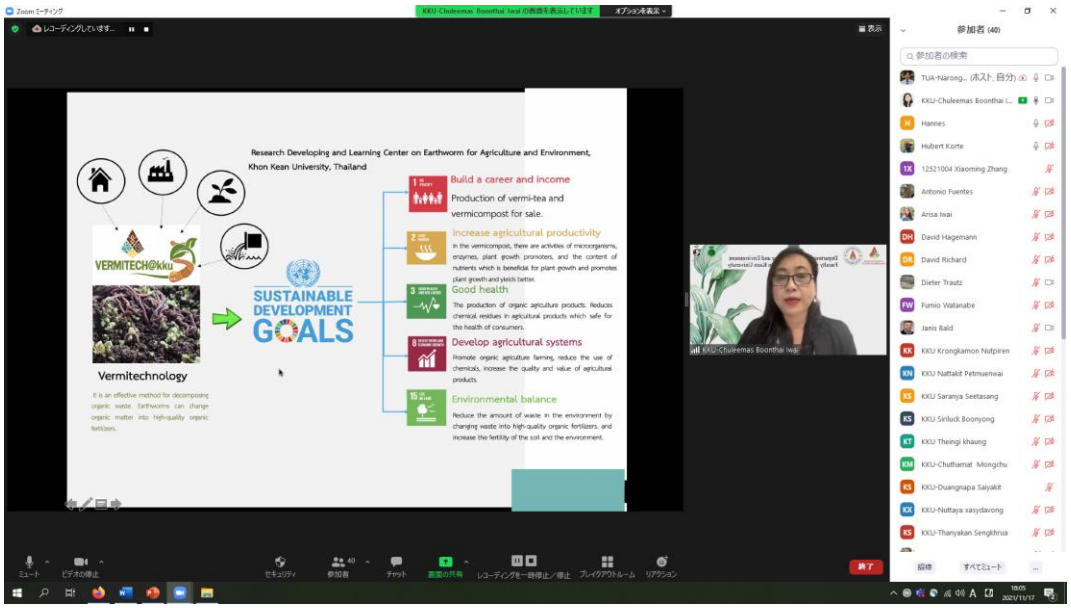


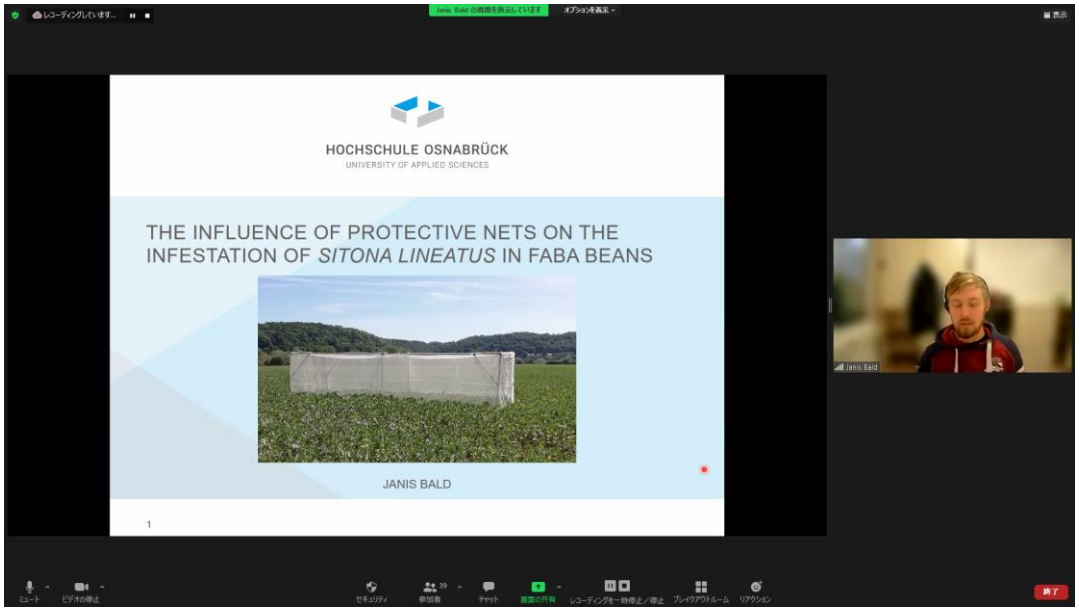


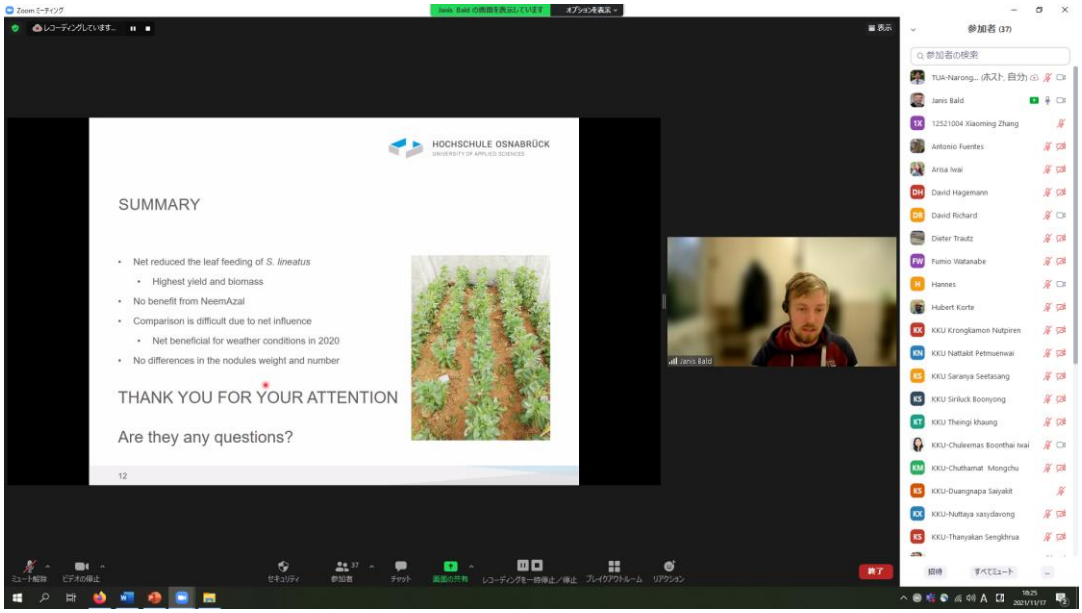

Research Topic from Tokyo University of Agriculture
(17:10-17:40 JST)
3-1.
Estimation of tea leaf chemical components using UAV remote sensing imagery in a Shizuoka tea garden
Kazuki MATSUURA
Utilization of spectral reflectance information from UAV imagery for SMART AGRICULTURE
Prof. Dr. Sawahiko SHIMADA
参加者 (31)


Utilization of spectral reflectance information from UAV imagery for SMART AGRICULTURE
- Spectral Reflectance Information can be utilized for the estimation of yield, leaf chemical component, growing heterogeneity of agricultural crops.
- Time-series imagery data can be used for monitoring the growing status and to assist optimum harvest timings.
- Agricultural big imagery data can be anticipated to be collected and will hold a big potential to be utilized on more detailed information assisted by AI (deep learning) models.
参加者 (31)

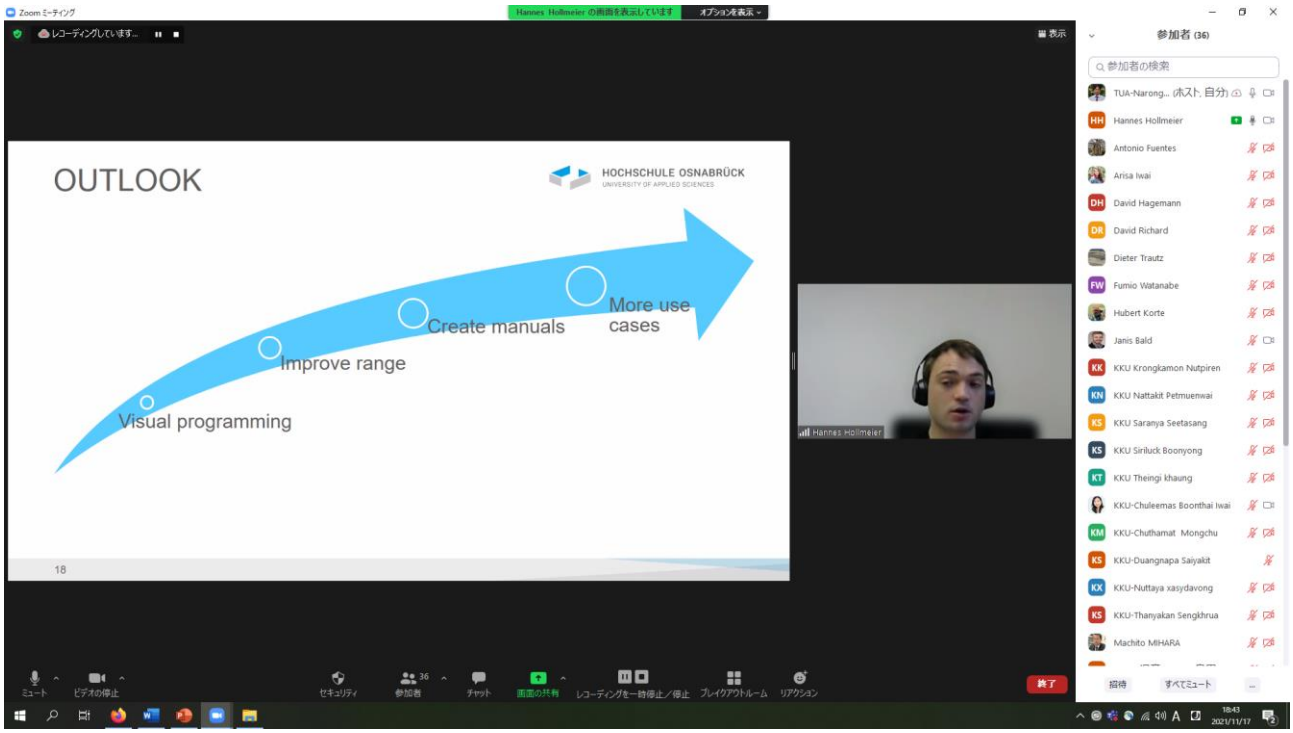

Khon Kaen University
AGKKU
Agriculture Khon Kaen University
VERMITECH@kku
Vermifiltration and Vermiremediation:
Ecological and Sustainable Green Technology for Agricultural Wastewater Treatment and Agro-Waste Management.
Assoc.Prof.Dr. Chuleemas Boonthai IWAI
Director of Integrated Land and Water Resources Management Research and Development Center in Northeast Thailand, Thailand
Khon Kaen University, Department of Soil Science and Environment
E-mail: chuleemas1@gmail.com


Research Developing and Learning Center on Earthworm for Agriculture and Environment,
Khon Kean University, Thailand
VERMITECH@kku
SUSTAINABLE DEVELOPMENT GOALS
Vermitechnology
Build a career and income
Production of vermi-tea and vermicompost for sale.
Increase agricultural productivity
Good health
Develop agricultural systems
Environmental balance
参加者 (40)


HOCHSCHULE OSNABRÜCK
UNIVERSITY OF APPLIED SCIENCES
THE INFLUENCE OF PROTECTIVE NETS ON THE INFESTATION OF SITONA LINEATUS IN FABA BEANS
JANIS BALD
1


HOCHSCHULE OSNABRÜCK
SUMMARY
Net reduced the leaf feeding of S. lineatus
Highest yield and biomass
No benefit from NeemAzal
Comparison is difficult due to net influence
Net beneficial for weather conditions in 2020
No differences in the nodules weight and number
THANK YOU FOR YOUR ATTENTION
Are they any questions?
12
参加者 (37)


レコーディングしています...
Hannes Hollmeier の画面を表示しています
オプションを表示
表示
HOCHSCHULE OSNABRÜCK
UNIVERSITY OF APPLIED SCIENCES
DIGITIZATION OF FARMS THROUGH DEPLOYMENT AND NETWORKING OF VARIOUS SENSORS
HANNES HOLLMEIER
26.10.2021
1
Hannes Hollmeier
ミュート
ビデオの停止
セキュリティ
参加者
36
チャット
画面の共有
レコーディングを一時停止／停止
ブレイクアウトルーム
リアクション
終了


Zoom ミーティング
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Hannes Hollmeier の画面を表示しています
オプションを表示
表示
OUTLOOK
HOCHSCHULE OSNABRÜCK
UNIVERSITY OF APPLIED SCIENCES
Visual programming
Improve range
Create manuals
More use cases
18
Hannes Hollmeier
参加者 (36)
参加者の検索
TUA-Narong... (ホスト, 自分)
Hannes Hollmeier
Antonio Fuentes
Arisa Iwai
David Hagemann
David Richard
Dieter Trautz
Fumio Watanabe
Hubert Korte
Janis Bald
KKU Krongkamon Nutpiren
KKU Nattakit Petmuenwai
KKU Saranya Seetasang
KKU Siriluck Boonyong
KKU Theingi khaung
KKU-Chuleemas Boonthai Iwai
KKU-Chuthamat Mongchu
KKU-Duangnapa Saiyakit
KKU-Nuttaya xasydavong
KKU-Thanyakan Sengkhrua
Machito MIHARA
招待
すべてミュート
ミュート
ビデオの停止
セキュリティ
参加者
36
チャット
画面の共有
レコーディングを一時停止／停止
ブレイクアウトルーム
リアクション
終了
18:43
2021/11/17

Closing remarks