

Proceedings

Second Trilateral Symposium on SDGs

- New Strategic Approaches Towards SDGs Beyond the COVID-19 Pandemic -

**August 29-31, 2023
Kagawa University
Kagawa, Japan**

**Organized by
Kagawa University
Chiang Mai University
National Chiayi University**

**Supported by
Kagawa Prefecture
Takamatsu City
Takamatsu Convention and Visitors Bureau**

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For more information on this program and abstracts, please contact the Symposium Secretariat, International Office, Kagawa University, JAPAN
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Message from President of Kagawa University

On this occasion, Kagawa University is pleased and honored to host the Second Trilateral Symposium on SDGs on-site at our campuses. The sub-theme of "New Strategic Approaches Towards SDGs Beyond the COVID-19 Pandemic" is a manifestation of our desire to work together with our partners, Chiang Mai University and National Chiayi University, to play a leading role in the post-corona era.

Since the beginning of 2020, the world has been exposed to the threat of the new coronavirus infection, and from March 2020, domestic and international travel has been greatly restricted around the world.

In Japan, from May 2023 onwards, the status of coronavirus infectious diseases will be treated the same manner as seasonal influenza, etc., thereby making it possible for people and countries to interact with one another as before. On this occasion, we are very happy to welcome a total of more than 70 people from Chiang Mai University and National Chiayi University to Kagawa to participate in the Second Trilateral Symposium on SDGs in a face-to-face manner.

Since the first joint symposium was held in Chiang Mai in 2007, Kagawa University and Chiang Mai University have conducted seven symposia once every two years until 2018. In 2012, Kagawa University and National Chiayi University held the first joint workshop at Chiayi. The following year, the two partners signed an international academic exchange agreement, and by 2019, Kagawa University and National Chiayi University have successfully conducted seven workshops.

Under these circumstances, the three universities decided to jointly hold a symposium in 2021, which was held online due to the influence of COVID-19. It was a success with over 400 delegates participating.

In the plenary session, President Niwes Nantachit of Chiang Mai University and President Chyung Ay of National Chiayi University participated in the signing of the Memorandum of Cooperation, confirming further strengthening of cooperation among the three universities. As the name of the symposium suggests, the three universities promised to work together to contribute to the SDGs. In that session, I was personally impressed to learn that both Chiang Mai University and National Chiayi University are actively working on the SDGs.

At Kagawa University, we aim to simultaneously work towards the targets of SDGs, which are "international goals for a better world," and the "sustainable regional decentralized society" that Japan must aim for. All the research themes of our staff members are linked to one of the 17 goals of the SDGs, and

we believe that their research output will contribute to the realization of a decentralized society.

The fact that the SDGs are global goals, point to the necessity and importance of working together with partner universities around the world. Along this line, I believe that holding this symposium jointly with Chiang Mai University and National Chiayi University on the theme of SDGs is very timely and significant. I have been informed that since the First Trilateral Symposium, a number of new joint research projects related to the SDGs have been launched.

Immediately after the First Trilateral Symposium, Kagawa University initiated a support project for international joint research involving all three universities in order to accelerate international joint research efforts. This is the third year, and we have provided support to a total of 12 cases. The research results will be presented at this symposium. I hope that these joint projects will continue flourish in the future.

This symposium consists of a main session, along with parallel sessions on Sustainability & Society, Sustainability & Tourism, Sustainability & Health, Sustainability & Food, Sustainability & Technology, Student Session and poster session. Each session will also include facility tours and fieldwork. We hope that delegates will appreciate visiting our research facilities and enjoy the wonderful scenery of Kagawa Prefecture.

Finally, I sincerely hope that this symposium will lead to lively exchanges, which will strengthen our relationship even more than before, and that it will bring about more advancement in the wider world of research and education.



KAKEHI Yoshiyuki, M.D., Ph.D.
President
Kagawa University





Message from the Chiang Mai University President

On behalf of Chiang Mai University, it is our distinct pleasure and honor to be joining the "2nd Trilateral Symposium 2023", the theme of "New Strategic Approaches Towards SDGs Beyond the COVID-19 Pandemic", held from August 29th to 31st.

I would like to emphasize that this symposium not only presents a great opportunity for sustainable academic promotion amongst the three participating universities, but it also serves as a platform to showcase Chiang Mai University's vision and our commitment to being a leading university, dedicated to social responsibility for sustainable development through innovation.

This event holds immense significance as it provides a unique opportunity for students and researchers to show case their work, by presenting their potential innovations for post-COVID sustainability, with a particular focus on health and food.

The recent pandemic presented humanity with numerous challenges, shaking our sense of security in life, especially in matters of health and nutrition. Each country has approached these insecurities with varied solutions and suggestions, and we are delighted that this symposium offers a stage for all of us to share our experiences and ideas.

Chiang Mai University believes that by sharing our perspectives on new strategic approaches towards Sustainable Development Goals (SDGs) beyond the COVID-19 pandemic, we can raise awareness and encourage conscious adaptation amidst global change and our goal is to ensure that these changes do not compromise the well-being of humanity and the environment we inhabit.

Prof. Pongruk Sribanditmongkol, M.D., Ph.D.

President of Chiang Mai University

The sharing of knowledge and skills by participants in this symposium, I am confident, will bring fresh insights and directions, whilst strengthening our relations and collaborations, as we work together towards building a sustainable future that benefits us all. I look forward to Chiang Mai University participating in this symposium and I wish every participant a most rewarding experience.



Message From The NCYU President

Warm greetings to our distinguished friends from Japan and Thailand. On behalf of National Chiayi University, I would like to thank Kagawa University for its warm welcome and hospitality in hosting the 2023 In-Person The 2nd Trilateral Symposium on SDGs between Kagawa University, Chiang Mai University and National Chiayi University, 29-31 August 2023. It has been a long time since the outbreak of Covid-19 which hindered us from meeting up in person.

National Chiayi University, with 38 delegates from 7 different colleges, including Teachers College, College of Humanities and Arts, College of Management, College of Agriculture, College of Science and Engineering, College of Lifesciences and College of Veterinary Medicine are honored to join this Trilateral Symposium on SDGs 2023. They will present their papers and give oral presentations in 5 vital sessions of SDGs on the topics of Sustainability & Health Session, Sustainability & Society, Sustainability & Technology, Sustainability & Food and Sustainability & Tourism. In addition to that, we also have two students who joined Joint Environmental Cleanup Event last November to share with you their experiences and the findings in this Trilateral Symposium.

I believe that this symposium would be an excellent forum for us to discuss research findings and the possible collaborations in the future. And I would like to take this opportunity to congratulate the success of the 2023 Trilateral Symposium to everyone. We wish that the three universities will have our partnership and cooperation intensively enhanced through this symposium. Thank you.



Han-Chien Lin, Ph.D.
President
National Chiayi University



Welcome Address from the Organizing Committee Chair

On this auspicious occasion, it is with great pleasure and honor for us to welcome such a big delegation from Chiang Mai University and National Chiayi University.

The long friendship between Chiang Mai University (CMU) and Kagawa University (KU) began in 1990 when our two institutions signed the Memorandum of Understanding. KU presently has over 100 partnership agreements with universities around the world. Against this backdrop, we are happy to note that CMU is one of our most important partner universities. Of particular mention is that, since 2005, KU and CMU have been collaborating closely on multi-disciplinary education and research. This collaboration led us to launch the inaugural Joint Symposium in 2007 which was held at CMU. Riding on the momentum, KU hosted the Second Joint Symposium in 2008. Thereafter, seven Joint Symposiums have been conducted on a rotating basis between KU and CMU.

Meanwhile, National Chiayi University (NCYU) and KU signed the Memorandum of Understanding in 2013. This year marks the 10th anniversary of the signing of the MoU. From the perspective of KU, NCYU is also one of our most important partner universities. During this decade, our two institutions have engaged each other in multi-disciplinary international exchanges in research and education. The inaugural Joint Workshop started at NCYU in 2012 and the Second Joint Workshop was held at KU in 2013. Since then, seven Joint Workshops have been held with the two partners taking turns to play host.

Under these circumstances, the three universities decided to pool their respective resources together to jointly hold the First Trilateral Symposium on SDGs. However, due to the corona pandemic, the inaugural symposium was conducted online by KU in 2021. To maintain the momentum and keep the spirits high, KU proceeded to host the Online Research Seminar on SDGs in 2022.

Today, we are very happy to be able to hold the symposium on-site at our campuses. Through actual face-to-face meetings, we hope that all delegates will actively exchange opinions on research, thereby making further contribution to the domain of SDGs. Furthermore, we hope that in the near future, more joint projects will take place, leading to research output that will have positive contribution and impact on society.

Finally, please do not hesitate to consult us should you need any assistance or advice. We shall do our best to help make your stay comfortable and productive. Your time is limited, but we also hope you will enjoy your stay in Kagawa.

Naoyuki Hara

Naoyuki Hara, Ph.D.
Vice President, Kagawa University



Session Coordinators:

Chiang Mai University (CMU)

Sustainability & Society Session

CMU Chair: Associate Professor Dr. Pornchai Wisuttisak, Faculty of Law
(Assistant to President)

Sustainability & Tourism Session

CMU Chair: Lect. Dr. Pairach Piboonrungraj, Faculty of Economics
(Assistant to the President)

Sustainability & Health Session

CMU Chair: Associate Professor Kriengkrai Srithanaviboonchai, M.D. M.P.H.,
Research Institute of Health Sciences

Sustainability & Food Session

CMU Chair: Associate Professor Dr. Yuthana Phimolsiripol, Faculty of Agro-
Industry
(Director, Food Innovation and Packaging Center)

Sustainability & Technology Session

CMU Chair: Associate Professor Dr. Ukrit Mankong, PhD.
Photonics and High-Frequency Research Laboratory, Department of Electrical
Engineering, Faculty of Engineering
(Assistant Dean, Faculty of Engineering)

Student Session

CMU Chair: Assistant Professor Dr. Worakanya Buranaphatthana, Faculty of
Dentistry
(Assistant to the President International Relations, International Relations Division)

Session Coordinators:

National Chiayi University (NCYU)

Sustainability & Society Session

Prof. Huang, Kuo-Hung, Faculty of Education

數位學習設計與管理學系暨研究所 黃國鴻 教授

Sustainability & Tourism Session

Prof. Chang Shu-Yun, Department of Marketing and Tourism Management

行銷與觀光管理系 張淑雲 系主任

Prof. Lin, Yih-Ming, Department of Applied Economics

應用經濟學系 林億明 系主任

Sustainability & Health Session

Prof. Chang, Hsin-I, Faculty of Life Science

生化科技學系暨研究所 張心怡 教授

Sustainability & Food Session

Asst. Prof. Wang, Hsiao-Wen, Faculty of Agriculture

園藝學系 王孝雯 助理教授

Sustainability & Technology Session

Prof. Su, Chiung-Wu, Faculty of Science & Engineering

電子物理學系 蘇炯武 教授

Student Session

A.P. Chou, Lan-Szu, Dean of International Affairs

國際長 周蘭嗣 教授

Session Coordinators:

Kagawa University (KU)

Sustainability & Society Session

Prof. TAKAGI Yumiko, Faculty of Education

Sustainability & Tourism Session

Prof. HARA Naoyuki, Faculty of Economics

Prof. FUTATSUYAMA Tatsuro, Faculty of Economics

Sustainability & Health Session

Prof. WADA Kenji, Faculty of Medicine

Assistant Prof. SUZUKI Hiromi, Faculty of Medicine

Sustainability & Food Session

Prof. KAWAMURA Osamu, Faculty of Agriculture

Prof. OGAWA Masahiro, Faculty of Agriculture

Sustainability & Technology Session

Prof. MIKI Nobuhiko, Faculty of Engineering and Design

Student Session

Prof. Long Lim, International Office

Day 1

August 29, Tue.

Saiwai-cho Campus

| Time | Item | Notes | Location |
|---------------------------|--|---|-------------------------------------|
| Pick up at KAWAROKU HOTEL | | | |
| 11:00 | Registration | For all participants | Olive Square Multipurpose Hall |
| 12:00 | Lunch | Meal coupons to be issued to CMU & NCYU delegates. | KU Cafeteria |
| Main Session | | | |
| 13:00 | Opening | Chair, Vice President, HARA Naoyuki | Center for DRI Education (hybrid)* |
| 13:05 | Opening Address: Kagawa Pref. | Governor, IKEDA Toyohito | |
| 13:10 | Opening Address:CMU | President, Pongruk Sribanditmongkol | |
| 13:15 | Opening Address:NCYU | Representative, by Prof. Show-Jen Chiou Head of the Center for Environmental Protection, Safety and Health | |
| 13:20 | Opening Address:KU | President, KAKEHI Yoshiyuki | |
| 13:25 | Explanation of the schedule (guidance) | | |
| 13:45 | Photo Session & Break | | |
| 14:15 | Keynote: NCYU | Prof. Show-Jen Chiou Head of the Center for Environmental Protection, Safety and Health | Center for DRI Education (hybrid) * |
| 14:45 | Keynote: CMU | Prof. Bannakij Lojanapiwat Dean, Faculty of Medicine | |
| 15:15 | Break (Coffee & Snack) | | Olive Square Café Sorami |
| 15:30-16:30 | Poster Sessions** | | Library Learning Commons |
| Main Session | | | |
| 16:30-18:00 | Joint Research Session: 16:30-Sudarshanee Geekiyanage 16:45-Lrong Lim 17:00-MIYAZAKI Eiichi 17:15-MATSUMOTO Hiroo 17:30-HAGA Chiyori 17:45-MATSUMOTO Yoshiki | | Center for DRI Education (hybrid) * |
| Banquet | | | |
| 18:30 | Opening Remarks: KU Toast: CMU Performance-Student Club "CHIKUYUKAI" Japanese traditional music- | | Olive Square Multipurpose Hall |
| 20:30 | Closing Comment: KU | | |
| Back to the hotel | | | |

* Hybrid sessions: Remote participants can watch the session through Zoom.

** Posters will be displayed from 12:30 on the 29th until noon on August 31st.

The library is open from 8:30 to 20:00.

Day 2

August 30, Wed.

Various Sites

| | Sustainability & Society | | Sustainability & Tourism | Sustainability & Health | Sustainability & Food | Sustainability & Technology | Student Session |
|--------------|---|---|---|--|--|---|---|
| | Faculty | Students | | | | | |
| | Off-campus | Saiwai-cho campus Off-campus | Saiwai-cho campus Off-campus | Miki-cho Medical campus | Miki-cho Agriculture campus | Hayashi-cho campus | Saiwai-cho campus Off-campus |
| 07:00 | Information desk @ the hotel opens | | | | | | |
| 07:45 | 7:40 Gather at Takamatsu Ferry Port | | | | | | |
| 08:00 | | | | | | | |
| 08:10 | Ferry Boat DEP. 8 : 12 Move to the off-campus sites on Nao-shima Session (hybrid)* Lunch field-work etc. | 8 : 20 Pick up members at Kawaroku hotel Move to Saiwai-cho campus Session 10:30-12:00 Lunch Off-campus tour Move to Utazu-cho Shikoku Aquarium Setouchi Museum Dinner | 8 : 20 Pick up members at Kawaroku hotel Move to Saiwai-cho campus Presentation Session 9:00-11:10 Lunch Move to Ferry Terminal Off-campus tourism tour of Shodoshima Field works etc. ARR. Takamatsu Ferry Port 18 : 35 Dinner | 8 : 10 Pick up members at Kawaroku hotel ARR. 9:00 at Miki-cho Medical campus Presentation Session (hybrid)* Lunch Lab and hospital tour | 8 : 00 Pick up members at Kawaroku hotel ARR. 9:00 at Miki-cho Agriculture campus Tour of the Rare Sugar Research Center Lunch Presentation Session (hybrid)* Banquet at school cafeteria 17 : 25 | 8 : 20 Pick up members at Kawaroku hotel ARR. 9:00 at Hayashi-cho campus Presentation Session Lunch On-campus or off-campus tour Related company visit Dinner | 8 : 20 Pick up members at Kawaroku hotel Move to Saiwai-cho campus Presentation Session at the Global Café (hybrid)* Lunch Off-campus tour Excursion trip to the east area of Kagawa Prefecture Caviar Fishery Farm, Feeding Yellowtail fish at Adoike Fish Farm Tsuda beach Clean Dinner |
| 08:20 | | | | | | | |
| 08:30 | | | | | | | |
| 12:00 | | | | | | | |
| 12:30 | | | | | | | |
| 13:00 | | | | | | | |
| 13:30 | | | | | | | |
| Around 20:30 | Back to the hotel | Back to the hotel | Back to the hotel | Back to the hotel | Back to the hotel | Back to the hotel | Back to the hotel |

Day 3 August 31, Thu.

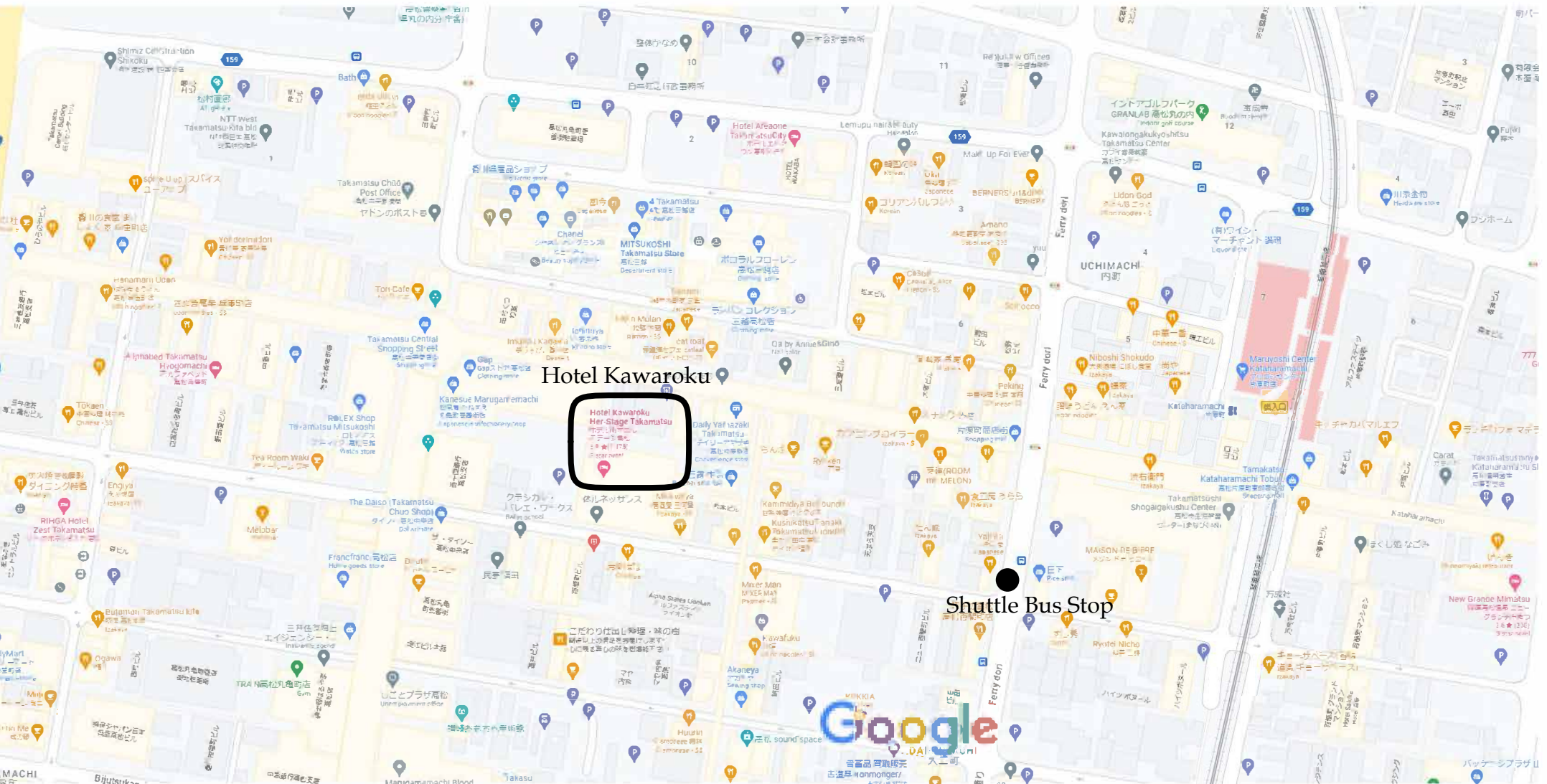
Saiwai-cho Campus

| Time | Item | Notes | Location |
|---|--|---|-------------------------------------|
| 08:20 | Pick up at KAWAROKU HOTEL | | |
| Main Session | | | |
| 09:00 | Housekeeping announcements | | Center for DRI Education (hybrid) * |
| 09:10 | Keynote: KU side | Prof. TADA Kuninao Director, Seto Inland Sea Regional Research Center | |
| 09:40 | Break | | |
| 09:50 | Lessons Learned from parallel sessions (10 min X 5 or 6) followed by free discussion | | Center for DRI Education (hybrid) * |
| 10:50 | Break | | |
| 11:15 | Poster Prize | | Center for DRI Education (hybrid) * |
| 11:45 | Closing Address Remarks | Vice President, HARA Naoyuki CMU, NCYU | |
| 12:30 | Move to the shopping mall Free-choice lunch Shopping | | YOUME TOWN Shopping mall |
| 16:30 | Depart for airport (TAK19:20-TPE21:05, TAK19:40-HND21:00) | | |
| 17:00 | Move to KAWAROKU HOTEL for extended stay | | |
| 17:30 | Depart for airport (TAK20:20-HND21:40) | | |
| It will take 30min from YOUME TOWN to Takamatsu airport by Shuttle Bus. | | | |

Shuttle Bus Schedule

| Date | Departure Time | Departure Location | Destination | Applies to |
|-----------|----------------|-------------------------------|-------------------------------|--|
| August 29 | 10:30 am | Shuttle Bus Stop* | Kagawa University | All participants |
| | 20:40 pm | Saiwai-cho northern Campus | Shuttle Bus Stop* | All participants |
| August 30 | 07:40 am | Takamatsu Ferry Port | Naoshima | Society S. (only researchers) |
| | 07:50 am | Shuttle Bus Stop* | Shodoshima | Executive S. (President etc.) |
| | 08:00 am | Shuttle Bus Stop* | Miki-cho Campus (Agriculture) | Food Session |
| | 08:10 am | Shuttle Bus Stop* | Miki-cho Campus (Medicine) | Health Session |
| | 08:20 am | Kawaroku Hotel lobby | Hayashi-cho Campus | Technology Session |
| | 08:20 am | Shuttle Bus Stop* | Saiwai-cho northern Campus | Society S. (only students) Tourism Session Student Session |
| | 12:00 pm | Saiwai-cho northern Campus | Shodoshima | Tourism Session |
| | 13:00 pm | Saiwai-cho northern Campus | Utazu-cho | Society S. (only students) |
| | 13:00 pm | Saiwai-cho northern Campus | The east area of Kagawa pref. | Student Session |
| | 13:30 pm | Hayashi-cho Campus | Related company visit | Technology Session |
| | 17:00 pm | Miki-cho Campus (Medicine) | Mikayla (restaurant) | Health Session |
| | 18:30 pm | Kawaroku Hotel lobby | Mikayla (restaurant) | Executive S. (President etc.) |
| | 19:00pm | Miki-cho Campus (Agriculture) | Shuttle Bus Stop* | Food Session |
| | 21:00 pm | Mikayla (restaurant) | Shuttle Bus Stop* | Tourism Session Health Session Executive S. (President etc.) |
| August 31 | 08:20 am | Shuttle Bus Stop* | Saiwai-cho Campus | All participants |
| | 12:30 pm | Saiwai-cho Campus | YOUME TOWN shopping mall | All participants |
| | 16:30 pm | YOUME TOWN shopping mall | Takamatsu Airport | Departures |
| | 17:00 pm | YOUME TOWN shopping mall | Shuttle Bus Stop* | Extended stay participants |
| | 17:30 pm | YOUME TOWN shopping mall | Takamatsu Airport | Departures |

*For the Shuttle Bus Stop location, please refer to the next page.



Sustainability & Society Session

Day 1; Aug. 29, Tue.

Poster Presentations (15:30-16:30 at Library Learning Commons)

(Posters will be displayed from 12:30 to 18:00.)

Presenters:

Ms. Yushan Li

Ms. Ting-Yi Li

Ms. Fang-Ting Hsieh

Ms. Lin Yuchun

Day 2; Aug. 30, Wed.

07:40 Gather at Takamatsu Ferry port

Oral Presentations

(10 min presentation)

| | | |
|--|--|------|
| Chair: Prof. Yumiko Takagi (KU) / Prof. Paul Batten (KU) | | |
| 10:00-10:10 | Prof. Kazuya Ishii The SDGs in the Anthropocene: A Gandhian Critique | KU |
| 10:10-10:20 | Prof. Ming-Chung Chen Access the Nature: Project-oriented Approach as A New Strategy in Remote Rural Villages | NCYU |
| 10:20-10:30 | Prof. Ching-Ching Cheng Using the Preschool Quality Management Assessment Tool to Promote the Effectiveness of Professional Communities for Preschool Teachers | NCYU |
| 10:30-10:40 | Prof. Sy-Chyi (Kiky) Wang Social Innovation Practice: Understanding, Creating, and Changing | NCYU |
| 10:40-10:45 | Prof. Pitsanu Rodkomin Learning Management Program for Developing Pre-service Teachers in Elementary Education to be Able to Manage Sustainable Learning in Remote Areas after the COVID-19 Situation | CMU |
| 10:50-11:00 | Prof. Juei-Hsin Wang The Case Study of School Leadership and Professional Learning Community in Aboriginal Area | NCYU |
| 11:00-11:10 | Prof. Chun-wen Lin Take a Bite of Globalization-What 6th Graders in Taiwan Learned about Global Citizenship | NCYU |
| 11:10-11:20 | Prof. Supitcha Punya Young People as Agents of Change: The Mekong School's Approach to Strengthening Young People's Potential for Sustainable Development in the Mekong Subregion | CMU |
| 11:20-11:30 | Prof. Meng-Lung Lai Preschoolers' Understanding of Addition-subtraction Inverse Principle: A Cross-cultural Study in Japan and Taiwan | NCYU |
| 11:30-11:40 | Ms. Yu-Hsuan Yang Learning Effects of Natural Science on Students With Disabilities Enrolled in General Education Classes | NCYU |
| 11:40-11:50 | Prof. Titaya Sararit Residents Indicate Air Pollution's Risk by Using Cultural Landscape Case Study: Doi Suthep Mountain, Northern Thailand. | CMU |

| | | |
|-------------|--|------|
| 11:50-12:00 | Prof. Paul Batten A Report on Key Points for Teaching English at Elementary School Selected by Teacher Trainee Students | KU |
| 12:00-12:10 | Ms. Tzu-Yu Wang The Systematic Review Results of the Effectiveness of Reading Comprehension Strategy Instruction for Dyslexic Students in Scientific Text Comprehension. | NCYU |
| 12:10-12:20 | Ms. Hui Hsueh Chen Teachers' Professional Learning Community: Taking Action for the SDGs | NCYU |
| 12:20-12:30 | Prof. Kuo-Hung Huang Service-learning in the Global Context: A Case Study in Indonesia | NCYU |
| 12:30-12:40 | Prof. Yosuke Kakinuma Digital Literacy for Sustainable Financial Management: Exploring the Relationship between Financial Literacy, Fintech Adoption, and Quality of Life | CMU |
| 12:40-12:50 | Prof. Pornchai Wisuttisak University and Social Impact with SDGs: Case Study of Chiang Mai University Thailand | CMU |

Sustainability & Society Session (for Students)

Day 2; Aug. 30, Wed.

08:20 Pick up participants at Kawaroku Hotel
Move to Saiwai-cho North Campus

Oral Presentations (10:30-12:00 in Room No. 811)

12:00-13:00 Lunch

Field Trip

13:00 Depart from Kagawa University
Move to Utazu-cho
Shikoku Aquarium
Utazu Umihotaru Park

Dinner AEON Mall Utazu

21:00 Arrival at Kawaroku Hotel

Sustainability & Tourism Session

Day 1; Aug. 29, Tue.

Poster Presentations (15:30-16:30 at Library Learning Commons)

(Posters will be displayed from 12:30 to 18:00.)

Arinya Pongwat, Boontarika Paphawasit, Khanita Tumphasuwan, Manisa Piuchan
CAMT, CMU

Exploring Wellness Destination Key Success Factors: a Case of Mae Rim District, Chiang Mai Province

Pairach Piboonrungrroj and Benjenop Buranasiri

Faculty of Economics, CMU

Sustainable Tourism Development and Creative Economy: A Case of Creative Lanna Tourism in Chiang Mai

Day 2; Aug. 30, Wed.

8:20 Pick up at Kawaroku Hotel

8:40 Arrival at Saiwai-cho Campus

Oral Presentations (9:00-11:10 at Center for DRI Education, Room No.22)

(10 min presentation + 5 min Q&A, discussions)

| | | |
|---------------|---|------|
| 9:00 - 9:20 | Miwa Nishinaka Graduate School of Management, KU Study on Modeling of Residents' Perceptions and Attitudes Using Sustainable Tourism Indicators in Social Exchange Theory Context: Working Paper | KU |
| 9:20 - 9:40 | Yuthasak Chatkaewnapanon Department of Tourism, Faculty of Humanities, CMU Tourism and the Role of Higher Education in Poverty Reduction | CMU |
| 9:40 - 10:00 | Shu-yun Chang Department of Marketing of Tourism Management, NCYU Rural Village Creation: A Case Study of Local Creation in Taiping Community | NCYU |
| 10:00 - 10:10 | Break | |
| 10:10 - 10:30 | Naotaka Hiramami Media and Product Design Course, Faculty of Engineering and Design, KU Community-based Ecotourism Development: An Empirical Analysis of Latin American Cases | KU |
| 10:30 - 10:50 | Kansinee Guntawongwan and Akarapong Untong Faculty of Economics, CMU and School of Tourism Development, Maejo University Evaluation of the economic benefits from operating under the green hotel standard: a case study of boutique hotels in Nan Province | CMU |
| 10:50 - 11:10 | Wei-hsing KONG and Yih-ming LIN Department of Applied Economics and Management, National Ilan University and Department of Applied Economics, NCYU The Influence of Developing Agritourism on Agricultural Production | NCYU |

Field Trip (12:00-18:35)

| | |
|---------------|--------------------------------------|
| 11:10 - 12:00 | Lunch at Kagawa University cafeteria |
| 12:00 - 12:15 | Move to Takamatsu Port by Bus |
| 12:45 - 13:45 | Move to Shodoshima by Ferry |
| 14:00 - 14:30 | Tanada, Rice Fields |
| 15:00 - 15:45 | Soy Sauce Factory |
| 16:30 - 17:00 | Angel Road |
| 17:30 - 18:35 | Move to Takamatsu Port by Ferry |
| 19:00 - 21:00 | Dinner at Mikayla at Takamatsu Port |

Sustainability & Health Session

Day 1; Aug. 29, Tue.

Poster Presentations (15:30-16:30 at the Library Learning Commons)

(Posters will be displayed from 12:30 to 18:00.)

Prof. Kenji Wada

Special Assistant to the President, KU

Development of Support Iridium Catalysts for the Synthesis of N-Containing Chemicals

Ms. Nang Kham-Kjing

Student, Graduate School of Associated Medical Sciences, CMU

Highly Specific and Rapid Detection of Hepatitis C Virus Using RT-LAMP-Coupled CRISPR-Cas12 Assay: a new diagnostic tool towards SDG 3

Ms. Nourin Jahan

Student, Graduate School of Medicine, KU

Possible Contribution of Phosphate to the Pathogenesis of Chronic Kidney Disease in Dolphins

Ms. Pimpinan Khammawan

Student, Faculty of Public Health, CMU

Heterologous Third and Fourth Dose Vaccines Reduce Severity and Mortality in COVID-19 Patients during Delta and Omicron Predominance: A Cohort Study in Chiang Mai, Thailand

Ms. Jennifer Saulam

Student, Graduate School of Medicine, KU

Temporal Trends in Ischemic Heart Disease and Stroke Mortality Attributable to Metabolic Risk Factors in Japan, Taiwan, and Thailand from 1990 to 2019

Ms. Putida Pinthonglor

Student, Faculty of Dentistry, CMU

Effect of Antimicrobial Peptide LL-37 on Human Bone Marrow Mesenchymal Proliferation

Mr. Mohammad Mamun Sikder

Student, Graduate School of Medicine, KU

PLAAT5 Producing Anandamide and Other *N*-Acylethanolamines in Testis

Dr. Sakaewan Ounjaijean

Lecturer, Research Institute for Health Sciences, CMU

Exploring the Potential of Alternative Medicine: *In Vivo* Study of *Gymnema inodorum* Leaf Extract as a Promising Antimalarial Treatment in *Plasmodium berghei*-infected Mice

Prof. Waraporn Boonchieng

Associate Professor, Faculty of Public Health, CMU

Innovation for Public Health Emergency Response and Community Health Data Management: Case Study COVID-19 in Chiangmai, Thailand

Day 2; Aug 30, Wed.

8:10 Pick up at Kawaroku Hotel

9:00 Arrival at the Medical Campus

Oral Presentations

(10 min presentation + 5 min Q&A, discussions)

| | | |
|---|---|----|
| 9:00-9:15 | Opening, housekeeping messages | |
| Chair: Prof. Srithanaviboonchai K., CMU | | |
| 9:15-9:30 | Prof. Toru Uyama Associate Professor, Faculty of Medicine, KU Gene Disruption of the Phospholipid-related Enzyme PLAAT1 Improves High-fat Diet-induced Obesity and Hepatic Lipid Accumulation | KU |

| | | |
|---|--|------|
| 9:30-9:45 | Prof. Sarawut Kumphune Associate Professor, Biomedical Engineering Institute, CMU Novel Effect of Secretary Leukocyte Protease Inhibitor (SLPI) as Surface Coating Agent for Biomedical Applications | CMU |
| 9:45-10:00 | Prof. Hsin-I Chang Professor, Head of the Department of Biochemical Sciences and Technology, NCYU Mechanical Stretch Induced Osteogenesis on Human Annulus Fibrosus Cells through Upregulation of BMP-2/6 Heterodimer and Activation of p38 and SMAD1/5/8 Signaling Pathways | NCYU |
| 10:00-10:15 | Dr. Chakkrapong Kuensaen Lecturer, International College of Digital Innovation, CMU Cold Atmospheric Pressure Plasma Technology for Health Sustainability: Applications and Prospects | CMU |
| 10:15-10:30 | Break | |
| Chair: Prof. Hsin-I Chang, NCYU | | |
| 10:30-10:45 | Prof. Jyhmirn Lai Dean of the College of Veterinary Medicine, NCYU Evaluation of the Antibody Titers of Pasteurella Multocida Vaccine for Goats | NCYU |
| 10:45-11:00 | Dr. Kazuyo Kamitori Assistant Professor, Faculty of Medicine, KU Structural Basis of Sugar Transport by Sodium-glucose Cotransporters | KU |
| 11:00-11:15 | Prof. Chishih Chu Ex-vice President, NCYU. Virulence Plasmid Associated Salmonellosis and their applications | NCYU |
| 11:15-11:30 | Prof. Srithanaviboonchai K. Deputy Director, Research Institute for Health Sciences, CMU HIV-1 Recent Infection Surveillance Using a Point-of-Care Test for Recent Infection among Persons Newly Diagnosed with HIV Infection in Thailand | CMU |
| 11:30-13:00 | Lunch | |
| Chair: Dr. Hiromi Suzuki, KU (partly, Prof. Kenji Wada, KU) | | |
| 13:00-13:15 | Dr. Kannikar Intawong Lecturer, Faculty of Public Health, CMU Effectiveness of Heterologous Third and Fourth Dose COVID-19 Vaccine Schedules for SARS-CoV-2 Infection During Omicron Predominance in Thailand | CMU |
| 13:15-13:30 | Prof. Katsunori Sato Associate Professor, Graduate School of Management, KU Employment Transition Support during the Covid-19 Crisis -Questionnaire Survey at Employment Support Facilities in Okayama City | KU |
| 13:30-13:45 | Dr. Abhibhu Kitikamdhorn Lecturer, Faculty of Mass Communication, CMU Unraveling the COVID-19 Infodemic on Twitter: A Social Network Analysis in the Context of Thailand | CMU |
| 13:45-14:00 | Prof. Nobuyasu Komasa Professor, Faculty of Medicine, KU Attitude Survey toward Career Designing in Japanese Medical Student | KU |
| 14:00-14:15 | Dr. Hiromi Suzuki Assistant professor, Faculty of Medicine, KU Problematic Internet Use and Attachment Styles among Adolescents in Japan | KU |

14:15-14:30

Break

14:30-15:15

Courtesy visit to Dean (CMU, NCYU members)

15:15-17:00 Lab visit / Hospital visit (CMU, NCYU members, 2 groups)
17:00:- Move to dinner site, Mikayla at Takamatsu Port

Notes to oral presenters

- ✓ All presentations will be delivered hybrid-style. Please use the Windows PC provided.
- ✓ Please bring your presentation PPT file on a USB flash memory drive to the speaker ready room on August 30th before your presentation. We would like to check the operation of your PPT beforehand.
- ✓ Please make sure that the PPT you are using is the latest version.

Sustainability & Food Session

Day 1; Aug. 29, Tue.

Poster Presentations (15:30-16:30 at Library Learning Commons)

(Posters will be displayed from 12:30 to 18:00.)

Refer to Poster Presentations for list of presenters.

Day 2; Aug. 30, Wed.

8:00

Pick up at Kawaroku Hotel by bus.

(If you miss the bus, you may take the train to the Faculty of Agriculture)

8:50

Arrival at Faculty of Agriculture

MC: Dr. Kawamura, O. (KU)

09:00-09:05 **Greetings from Dean** (Dr. Akimitsu, K. KU)

09:05-10:00 **Explanation and tour of the Rare Sugar Research Center**
(Dr. Kato, S. KU)

10:00-10:10 Break

Introduction of each research center (20 min presentation + 4 min discussion)

(One Bell at 18 min, 2 Bells at 20 min, 3 Bells at 24 min)

10:10-10:35 **Genome and Gene Resource Research Center**

Genetic Analysis of Autoimmunity Arising from Disruption of the Defense-Related MAP Kinase Pathway in *Arabidopsis thaliana*. Dr. Ichimura, Kazuya

10:35-11:00 **Advanced Biochemistry and Chemical Biology Center**

Lifespan Extension by the Rare Sugar D-Allulose in the Nematode *Caenorhabditis elegans*. Dr. Sato, Masashi

MC: Dr. Ogawa, M. (KU)

11:00-11:25 **Food Safety and Nutraceutical Science Center**

Table Olive Processing in Japan: Towards Sustainability and Enhanced Health Effects. Dr. Yonekura, Lina

11:25-11:55 **Agricultural Resources and Technology Center**

Greenhouse gas reduction by drip irrigation of rice
Dr. Toyota, Masanori

11:55- Lunch at Kagawa University cafeteria

Research presentations by young researchers

(15 min presentation + 4 min discussion, One Bell at 13 min, 2 Bells at 15 min, 3 Bells at 19 min)

| | | |
|---|--|------|
| Chair: Asst. Prof. Dr. Wang, Hsiao-Wen (NCYU) | | |
| 12:45 | Dr. Hsu, Pei-Chuan The influence of social value, work value, and self-efficacy of Veterinary students on the career development of veterinary students at NTU. | NCYU |
| 13:05 | Dr. Phimolsiripol, Yuthana Cricket protein-FOS conjugation as a vitamin D3 carrier in food system | CMU |
| 13:25 | Dr. Ishii, Toya Soybean lipophilic protein as a sustainable plant-based ingredient for emulsion and foam systems. | KU |
| 13:45 | Dr. Srinuanpan, Sirasit Bioprocess Improvement for Fermentation of Pigmented Thai Glutinous Rice-Based Functional Beverage (<i>Sato</i>) with Superior Antioxidant Properties | CMU |
| 14:05 | Break | |
| Chair: Assoc. Prof. Dr. Yuthana Phimolsiripol (CMU) | | |
| 14:20 | Dr. Wang, Hsiao-Wen Effect of Harvest Maturity and Storage Temperature on the Ripening Quality of Mango (<i>Mangifera indica</i> L.) Fruit | NCYU |

| | | |
|--|--|------|
| 14:40 | Dr. Matsuzawa, Tomohiko Glycoside hydrolases of Japanese <i>koji</i> mold, <i>Aspergillus oryzae</i> | KU |
| 15:00 | Dr. Unban, Kridsada Potential Probiotic Lactic Acid Bacteria Isolated from Indigenous Fermented Tea Leaves (Miang) in North Thailand | CMU |
| 15:20 | Dr. Yanagita, Ryo Development of Simplified Analogs of Aplysiatoxin Having Different Conformation-Controlling Units | KU |
| 15:40 | Break | |
| Chair: Prof. Dr. Toyota, Masanori (KU) | | |
| 15:55 | Dr. Tseng, Ching-Tzu Entomopathogenic Nematode: a Potential Biocontrol Agent in Integrated Pest Management | NCYU |
| 16:15 | Dr. Uttarotai, Toungporn Coffee Production and the SDGs: Insights from Soil Microbes on Climate Change Mitigation | CMU |
| 16:35 | Dr. Mizuta, Keisuke Effects of agroforestry system on the growth of olive and durum wheat in Japan | KU |
| 16:55 | Dr. Yamuangmorn, Supapohn Enhancement of yield and grain zinc accumulation in rice by foliar application with zinc and potassium fertilizer | CMU |

MC: Dr. Kawamura (Coordinator, KU)

17:25

Banquet at Kagawa University cafeteria

Greeting from Dr. Akimitsu, Dean of the Faculty of Agriculture (KU)
 Greeting from Dr. Noppol Leksawasdi, Director, Office of Research Administration, Faculty of Agro-Industry (CMU)
 Greeting from Coordinator, Dr. Wang, Hsiao-Wen, Faculty of Agriculture (NCYU)
 Toastmaster, Coordinator, Dr. Yuthana Phimolsiripol, Faculty of Agro-Industry (CMU)

 Networking

 Closing remarks, Coordinator, Dr. Ogawa (Coordinator, KU)

19:00

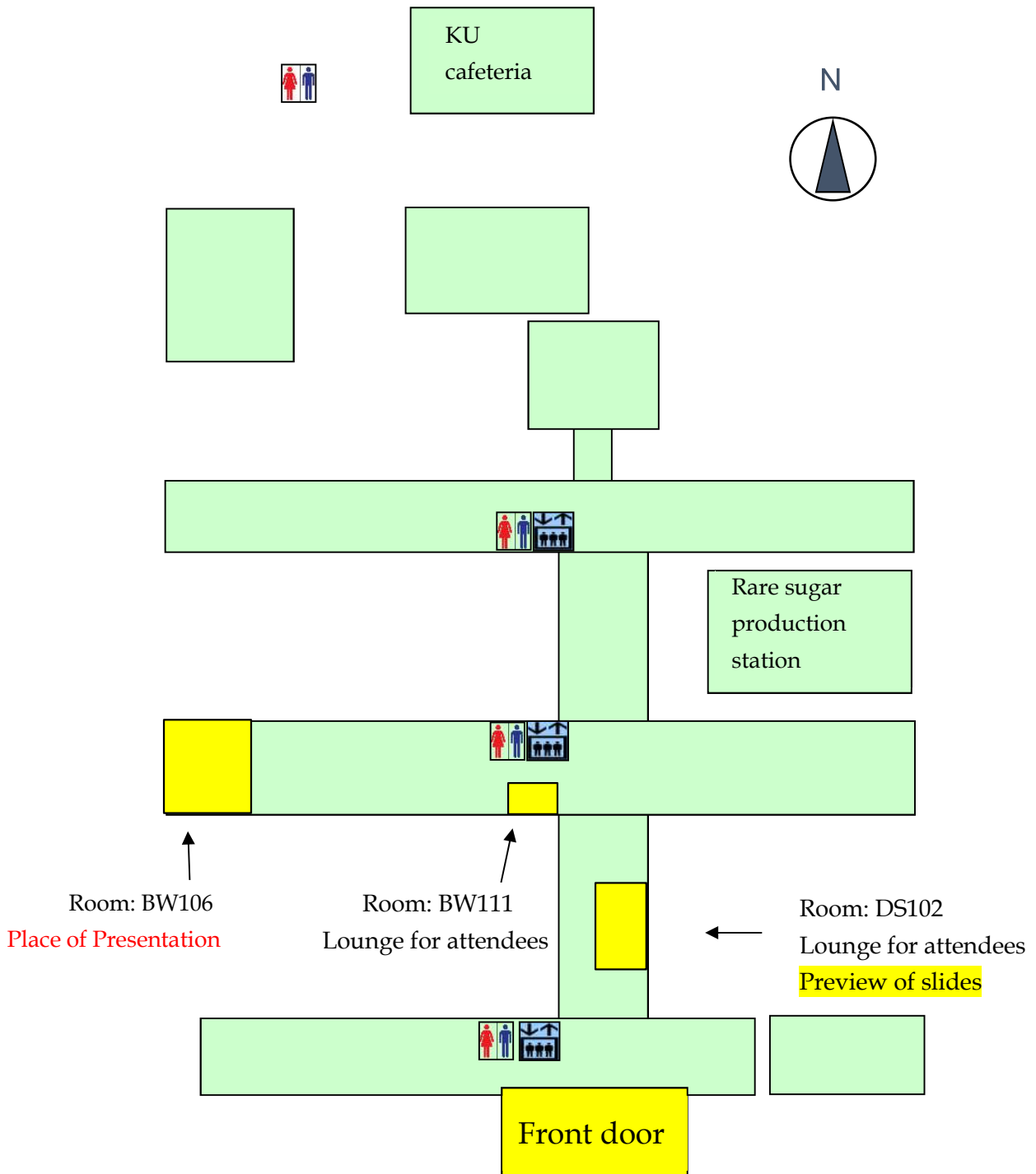
Move to Kawaroku Hotel by Shuttle Bus

Notes to oral presenters

- ✓ All presentations will be delivered hybrid-style. Please use the Windows PC provided.
- ✓ Please bring your presentation PPT file on a USB flash memory drive to room DS102 on August 30th before your presentation. We would like to check the operation of your PPT beforehand.
- ✓ Please make sure that the PPT you are using is the latest version.

Map

Faculty of Agriculture, Kagawa University
2393 Ikenobe, Miki-cho, Kita-gun, Kagawa, 761-0795, Japan



Sustainability & Technology Session

Day 1; Aug. 29, Tue.

Poster Presentations (15:30-16:30 at Library Learning Commons)

(Posters will be displayed from 12:30 to 18:00.)

Refer to Poster Presentations for list of Presenters.

Day 2; Aug 30, Wed.

8:20 Pick up at Kawaroku Hotel

9:00 Arrival at Hayashi-cho Campus

Sustainability & Technology Oral Session (Room 6201)

(10 min presentation + 5 min Q&A, discussions)

| | | |
|-------------|---|------|
| 9:15-9:20 | Opening | |
| 9:30-9:45 | Chiung-Wu Su Applications of Magneto-optical Faraday Effect in Solid Interfaces and Liquid Phases | NCYU |
| 9:30-9:45 | Chih-Yi Chiu Attention on Your Recommender Systems | NCYU |
| 9:45-10:00 | Chu-Ti Lin Evaluating Different Approaches' Effectiveness in Combining Spectrum-based Fault Localization Techniques | NCYU |
| 10:15-10:30 | Break | |
| 10:30-10:45 | Chayanon Hansapinyo Real Time Structural Health Monitoring of Historic Buildings | CMU |
| 10:45-11:00 | Sarinthip Thanakkasarnee Temperature-responsive Nanocomposite Films Using Phase Change Material and Halloysite Nanotubes as a Smart Microwave Packaging Material | CMU |
| 11:00-11:15 | Tawee Chaipimonplin Drought Management with Web Application for Chiang Mai Province, Thailand | CMU |
| 11:15-11:30 | Ukrit Mankong Development and Evaluation of Photonic Devices and Circuits for Communications and Biosensing Applications | CMU |
| 11:30-11:45 | Break | |
| 11:45-12:00 | Shukichi Shimada Analysis of Delayed Afterdepolarization in a Mathematical Cardiac Model | KU |
| 12:00-12:15 | Tomoaki Takemura Fabrication and Evaluation of Fe Thin Film Line Patterns Embedded in GaAs | KU |
| 12:15-12:30 | Takahiro Yamamoto Research on Ventilation Methods for Energy Saving and COVID19 Infection Control in University Facilities | KU |
| 12:30-12:45 | Mitsuhiro Miyamoto Evaluation and Mitigation of Seismic Risk for Composite Masonry Buildings in Bhutan | KU |

12:45-13:30 Lunch

14:30-15:15 Tour (MITSUI E&S Co., Ltd., AOI ELECTRONICS CO., LTD.)

17:00- Move to dinner site

Student Session

Day 1; Aug. 29, Tue.

Poster Presentations (15:30-16:30 at Library Learning Commons)

(Posters will be displayed from 12:30 to 18:00.)

Maytika Pattaratanarat

CMU

The Influence of Corruption on the Effect of Public Spending on Education Efficiency

Day 2; Aug. 30, Wed.

Oral Presentations (9:00-12:00 at the Global Café)

(10 min presentation + 10 min Q&A, discussions)

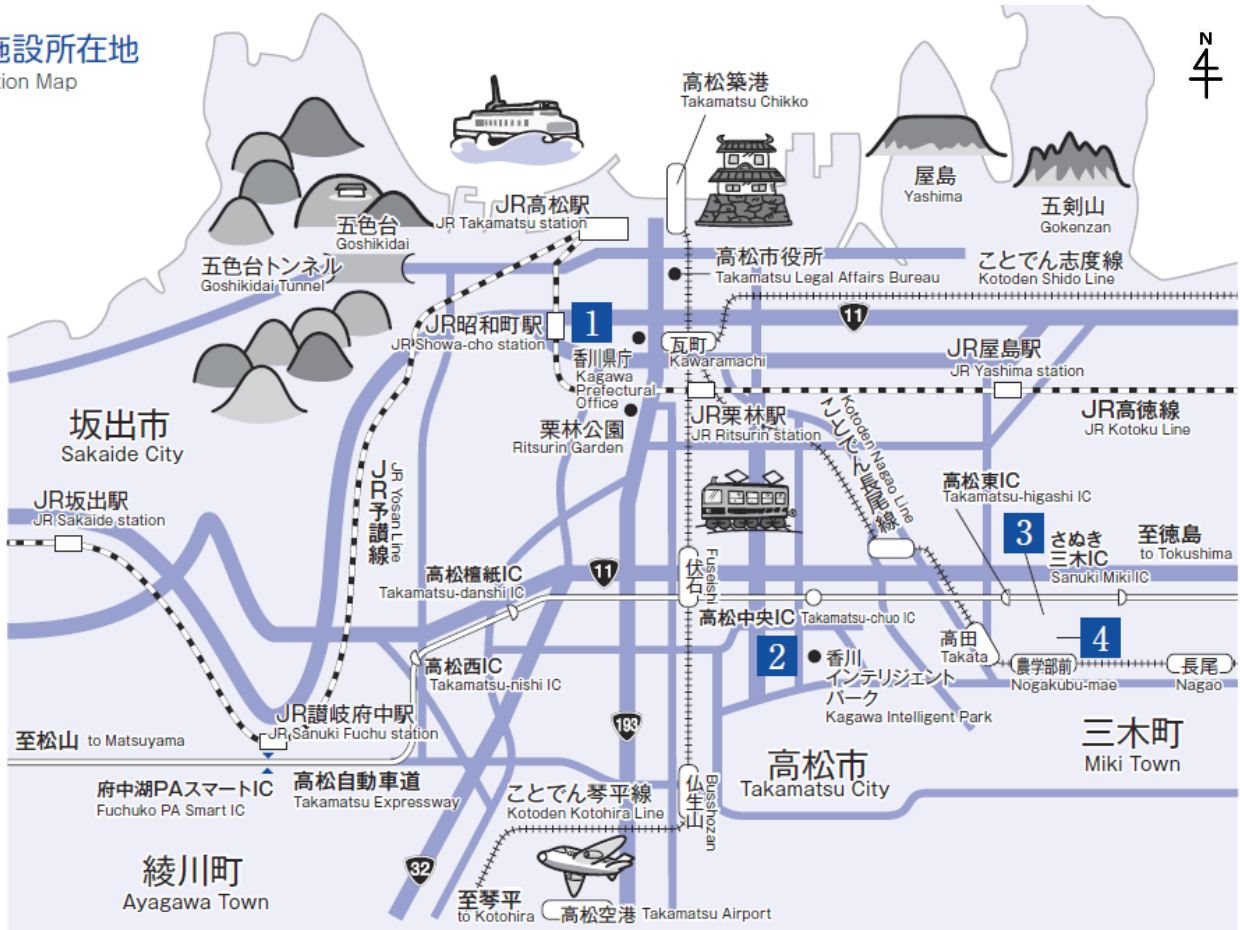
| | | |
|---------------|--|------|
| 09:00 - 09:20 | Sasaki Zeredo Jun Marine Garbage Cleanup Events as a Means of Community Engagement towards Tackling Marine Pollution | KU |
| 09:20 - 09:40 | Wareerat Prasitwiset The Genetic Diversity and Maternal Lineage of Marine Mammals and Sea Turtles along the Sea Coasts of Thailand | CMU |
| 09:40 - 10:00 | Jou-an Chen Cleaning beach in Aogu Wetlands Forest Park | NCYU |
| 10:00 - 10:20 | Break time | |
| 10:20 - 10:40 | SUGIMURA Sakura and KAWAKAMI Ryo Marine Garbage Collection and Survey in an Uninhabited Island in Seto Inland Sea: Lessons Learned from an Experience | KU |
| 10:40 - 11:00 | Rotsukon Jawana Vacuum Stripping Pretreatment of Chicken Manure for Sustainable Biogas Production | CMU |
| 11:00 - 11:20 | Pin-yi Huang Cleaning beach in Aogu Wetlands Forest Park | NCYU |

Field Work (13:00-18:00 in eastern Kagawa prefecture)

| | |
|-------|------------------------------------|
| 13:00 | Departure from Saiwai-cho Campus |
| 14:00 | Caviar Fishery Center |
| 15:00 | Yellowtail fish-feeding experience |
| 16:40 | Tsuda Beach Cleanup |
| 17:15 | Depart from Tsuda Beach |
| 18:00 | Dinner at Piccadilly-Ya |

Map of Takamatsu

各施設所在地 Location Map



1 Saiwai-cho Campus



[Location \(google map\)](#)



2 Hayashi-cho Campus



[Location \(google map\)](#)



3 Miki-cho Campus (Medicine)



[Location \(google map\)](#)



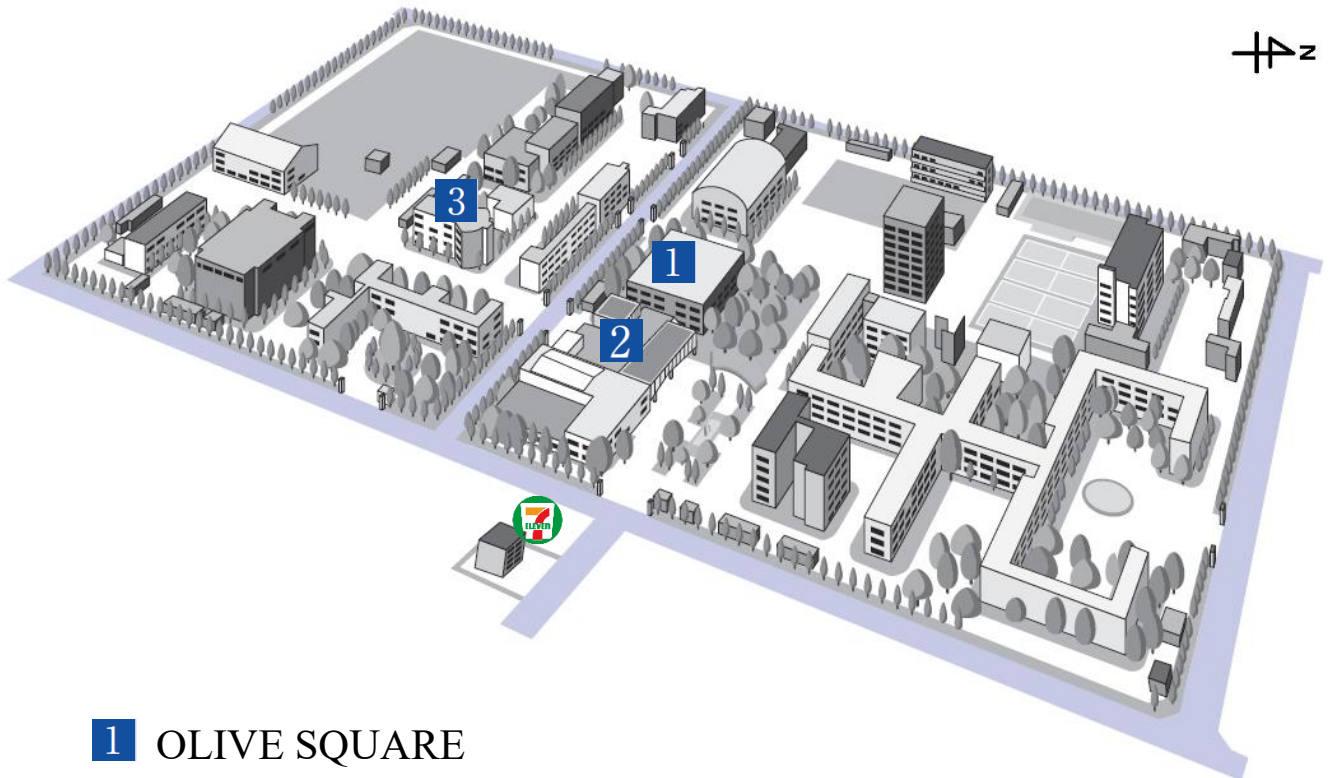
4 Miki-cho Campus (Agriculture)



[Location \(google map\)](#)



Saiwai-cho Campus Map



1 OLIVE SQUARE

- Mutipurpose Hall
- Global Café
- Community Lounge for Teachers and Staff Members



2 UNIVERSITY HALL

- Cafeteria



3 CENTER FOR DRI EDUCATION



Keynote (hybrid)

at the Center for DRI Education (hybrid)

August 29, Tue. 14:15-14:45

Show-Jen Chiou

Professor, Head of the Center for Environmental Protection,
Safety and Health, National Chiayi University

“ Transforming SDGs into Actions:
The Efforts Toward Sustainability at NCYU”

August 29, Tue. 14:45-15:15

Bannakij Lojanapiwat

Professor, Dean, Faculty of Medicine, Chiang Mai University

“Improving Health and Well-being for All:
CMU Medicine Endeavors”

August 31, Thu. 09:10-09:40

TADA Kuninao

Professor, Faculty of Agriculture,
Director, Seto Inland Sea Regional Research Center,
Kagawa University

“Changes in nutrients and their effects on fisheries after the
introduction of land-based nutrient loading regulations in the Seto
Inland Sea since 1973: A review”

Joint Research Session (hybrid)

at the Center for DRI Education

August 29, Tue. 16:30-18:00

16:30-

Sudarshanee Geekiyanage

Professor, Department of Agricultural Biology
Faculty of Agriculture, University of Ruhuna
“Seasonal effect on Sri Lankan traditional rice”

16:45-

Lrong Lim

Professor, International Office,
Director, International Student Center, Kagawa University
“Four-University Joint Online Environmental Cleanup Event ~A Joint venture among Kagawa University, Chiang Mai University, National Chiayi University, and Universiti Brunei Darussalam”

17:00-

MIYAZAKI Eiichi

Professor, Faculty of Education, Kagawa University
“Considerations for ICT Education for Sustainable Development in Japan and Taiwan”

17:15-

MATSUMOTO Hiroo

Professor, Faculty of Education, Kagawa University
“‘Playful’ Approach in Early Childhood Care and Education Settings: Ensuring Quality of Early Childhood Pedagogies”

17:30-

HAGA Chiyori

Professor, Faculty of Medicine, Kagawa University
“Effectiveness of an International E-Educational Program for Nursing Ethics in Public Health; Focusing on Process of Japanese Policy on Hansen’s Disease”

17:45-

MATSUMOTO Yoshiki

Associate Professor, Faculty of Agriculture, Kagawa University
“Through international collaborations, Japan has developed comprehensive guidelines for insect production based on extensive research”

Oral Presentations

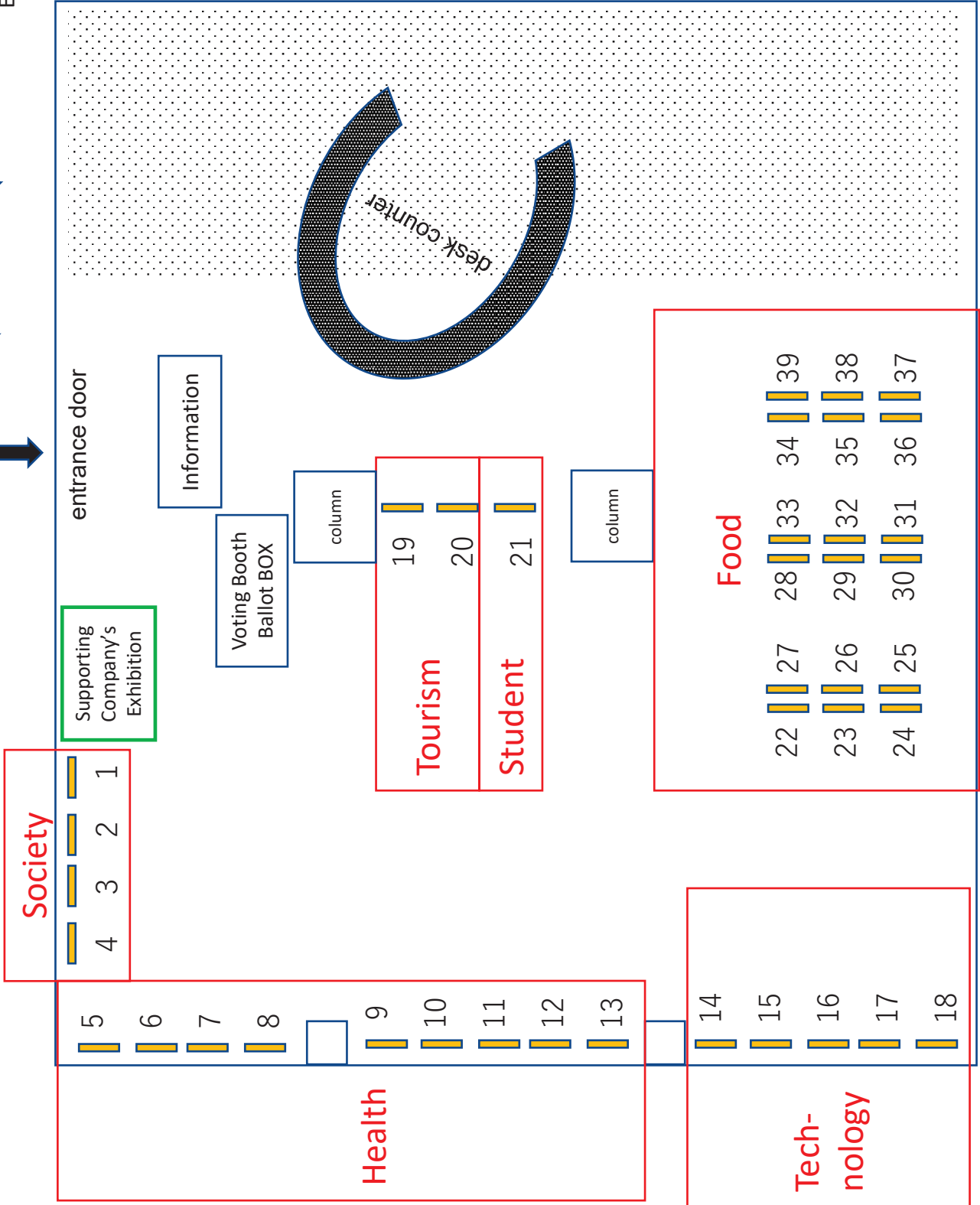
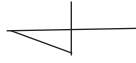
| No. | Sessions | Presenter | University | Title |
|-----|---|--------------------------|------------|--|
| 1 | Sustainability & Society Session (Hybrid) | Kazuya Ishii | KU | The SDGs in the Anthropocene: A Gandhian Critique |
| 2 | | Ming-Chung Chen | NCYU | Access the Nature: Project-oriented Approach as A New Strategy in Remote Rural Villages |
| 3 | | Ching-Ching Cheng | NCYU | Using the Preschool Quality Management Assessment Tool to promote the effectiveness of professional communities for preschool teachers |
| 4 | | Sy-Chyi (Kiky) Wang | NCYU | Social Innovation Practice: Understanding, Creating, and Changing |
| 5 | | Pitsanu Rodkomin | CMU | Learning Management Program for Developing Pre-service Teachers in Elementary Education to be able to Manage Sustainable Learning in Remote Areas after the COVID-19 Situation |
| 6 | | Juei-Hsin Wang | NCYU | The Case study of School Leadership and Professional Learning Community in Aboriginal Area |
| 7 | | Chun-wen Lin | NCYU | Take a Bite of Globalization-What 6th Graders in Taiwan learned about Global citizenship |
| 8 | | Supitcha Punya | CMU | Young People as Agents of Change: The Mekong School's Approach to Strengthening Young People's Potential for Sustainable Development in the Mekong Subregion |
| 9 | | Meng-Lung Lai | NCYU | Preschoolers' understanding of addition-subtraction inverse principle: A cross-cultural study in Japan and Taiwan |
| 10 | | Yu-Hsuan Yang | NCYU | Learning Effects of Natural Science on Students With Disabilities Enrolled in General Education Classes |
| 11 | | Titaya Sararit | CMU | Residents indicate Air pollution's Risk by Using Cultural landscape Case Study: Doi Sutep Mountain, Northern Thailand. |
| 12 | | Paul Batten | KU | A report on key points for teaching English at elementary school selected by teacher trainee students |
| 13 | | Tzu-Yu Wang | NCYU | The systematic review results of the effectiveness of reading comprehension strategy instruction for dyslexic students in scientific text comprehension. |
| 14 | | Hui Hsueh Chen | NCYU | Teachers' Professional Learning Community: Taking Action for the SDGs |
| 15 | | Kuo-Hung Huang | NCYU | Service-learning in the global context: A case study in Indonesia |
| 16 | | Yosuke Kakinuma | CMU | Digital Literacy for Sustainable Financial Management: Exploring the Relationship between Financial Literacy, Fintech Adoption, and Quality of Life |
| 17 | | Pornchai Wisuttisak | CMU | University and Social Impact with SDGs: Case study of Chiang Mai University Thailand |
| 1 | Sustainability & Tourism Session | Miwa Nishinaka | KU | Study on Modeling of Residents' Perceptions and Attitudes Using Sustainable Tourism Indicators in Social Exchange Theory Context: Working Paper |
| 2 | | Yuthasak Chatkaewnapanon | CMU | Tourism and the Role of Higher Education in Poverty Reduction |
| 3 | | Shu-yun Chang | NCYU | Rural Village Creation: A Case Study of Local Creation in Taiping Community |
| 4 | | Naotaka Hiram | KU | Community-based Ecotourism Development: An Empirical Analysis of Latin American Cases |
| 5 | | Kansinee Guntawongwan | CMU | Evaluation of the economic benefits from operating under the green hotel standard: a case study of boutique hotels in Nan Province |
| 6 | | Yih-ming LIN | NCYU | The Influence of Developing Agritourism on Agricultural Production Wei-hsing KONG and Yih-ming LIN |
| 1 | Sustainability & Health Session (Hybrid) | Toru Uyama | KU | Gene disruption of the phospholipid-related enzyme PLAAT1 improves high-fat diet-induced obesity and hepatic lipid accumulation |
| 2 | | Sarawut Kumphune | CMU | Novel effect of Secretory Leukocyte Protease Inhibitor (SLPI) as surface coating agent for biomedical applications |
| 3 | | Hsin-I Chang | NCYU | Mechanical stretch induced osteogenesis on human annulus fibrosus cells through upregulation of BMP-2/6 heterodimer and activation of p38 and SMAD1/5/8 signaling pathways |
| 4 | | Chakkrapong Kuensaen | CMU | Cold Atmospheric Pressure Plasma Technology for Health Sustainability: Applications and Prospects |
| 5 | | Jyhmir Lai | NCYU | Evaluation of the antibody titers of Pasteurella multocida vaccine for goats |
| 6 | | Kazuyo Kamitori | KU | Structural basis of sugar transport by sodium-glucose cotransporters |
| 7 | | Chishih Chu | NCYU | Virulence plasmid associated Salmonellosis and their applications |
| 8 | | Srithanaviboonchai K | CMU | HIV-1 Recent Infection Surveillance Using a Point-of-Care Test for Recent Infection among Persons Newly Diagnosed with HIV Infection in Thailand |
| 9 | | Kannikar Intawong | CMU | Effectiveness of heterologous third and fourth dose COVID-19 vaccine schedules for SARS-CoV-2 infection during omicron predominance in Thailand |
| 10 | | Katsunori SATO | KU | Employment Transition Support during the COVID-19 Crisis: Questionnaire Survey at Employment Support Facilities in Okayama City |
| 11 | | Abhibhu Kitikamdorn | CMU | Unraveling the COVID-19 Infodemic on Twitter: A Social Network Analysis in the Context of Thailand |
| 12 | | Nobuyasu KOMASAWA | KU | Attitude Survey toward Career Designing in Japanese Medical Students |
| 13 | | Hiromi Suzuki | KU | Problematic internet use and attachment styles among adolescents in Japan |

| | | | | |
|----|---|----------------------------------|------|--|
| 1 | (Interpreter) | Kazuya Ichimura | KU | Genetic Analysis of Autoimmunity Arising from Disruption of the Defense-Related MAP Kinase Pathway in <i>Arabidopsis thaliana</i> |
| 2 | | Masashi Sato | KU | Lifespan Extension by the Rare Sugar D-Allulose in the Nematode <i>Caenorhabditis elegans</i> |
| 3 | | Lina Yonekura | KU | Table Olive Processing in Japan: Towards Sustainability and Enhanced Health Effects |
| 4 | | Masanori Toyota | KU | Greenhouse gas reduction by drip irrigation of rice |
| 1 | Sustainability & Food Session (Hybrid) | Pei-Chuan Hsu | NCYU | The influence of social value, work value, and self-efficacy of Veterinary students on the career development of veterinary students at NTU |
| 2 | | Yuthana Phimolsiripol | CMU | Cricket protein-FOS conjugation as a vitamin D3 carrier in food system |
| 3 | | Toya Ishii | KU | Soybean lipophilic protein as a sustainable plant-based ingredient for emulsion and foam systems |
| 4 | | Sirasit Srinuanpan | CMU | Bioprocess Improvement for Fermentation of Pigmented Thai Glutinous Rice-Based Functional Beverage (Sato) with Superior Antioxidant Properties |
| 5 | | Hsiao-Wen Wang | NCYU | Effects of Harvest Maturity and Storage Temperature on the Ripening Quality of Mango (<i>Mangifera indica</i> L.) Fruit |
| 6 | | Tomohiko Matsuzawa | KU | Glycoside hydrolases of Japanese koji mold, <i>Aspergillus oryzae</i> |
| 7 | | Kridsada Unban | CMU | Potential Probiotic Lactic Acid Bacteria Isolated from Indigenous Fermented Tea Leaves (Miang) in North Thailand |
| 8 | | Ryo C. Yanagita | KU | Development of Simplified Analogs of Aplysiatoxin Having Different Conformation-Controlling Units |
| 9 | | Ching-Tzu Tseng | NCYU | Entomopathogenic Nematode: a Potential Biocontrol Agent in Integrated Pest Management |
| 10 | | Toungporn Uttarotai | CMU | Coffee Production and the SDGs: Insights from Soil Microbes on Climate Change Mitigation |
| 11 | | Keisuke Mizuta | KU | Effects of agroforestry system on the growth of olive and durum wheat in Japan |
| 12 | | Supapohn Yamuangmorn | CMU | Enhancement of yield and grain zinc accumulation in rice by foliar application with zinc and potassium fertilizer |
| 1 | Sustainability & Technology Session | Chiung-Wu Su | NCYU | Applications of Magneto-optical Faraday Effect in Solid Interfaces and Liquid Phases |
| 2 | | Chih-Yi Chiu | NCYU | Attention on Global-Local Representations in Recommender Systems |
| 3 | | Chu-Ti Lin | NCYU | Evaluating Different Approaches' Effectiveness in Combining Spectrum-based Fault Localization Techniques |
| 4 | | Chayanon Hansapinyo | CMU | Real Time Structural Health Monitoring of Historic Buildings |
| 5 | | Sarinthip Thanakkasaranee | CMU | Temperature-responsive nanocomposite films using phase change material and halloysite nanotubes as a smart microwave packaging material |
| 6 | | Tawe Chaipimonplin | CMU | Drought Management with Web Application for Chiang Mai Province, Thailand |
| 7 | | Ukrit Mankong | CMU | Development and evaluation of photonic devices and circuits for communications and biosensing applications |
| 8 | | Shukichi Shimada | KU | Analysis of delayed afterdepolarization in a mathematical cardiac model |
| 9 | | Tomoaki Takemura | KU | Fabrication and evaluation of Fe thin film line patterns embedded in GaAs |
| 10 | | Takahiro Yamamoto | KU | Research on Ventilation Methods for Energy Saving and COVID19 Infection Control in University Facilities |
| 11 | | Mitsuhiro Miyamoto | KU | Evaluation and Mitigation of Seismic Risk for Composite Masonry Buildings in Bhutan |
| 1 | Student Session (Hybrid) | Sasaki Zeredo Jun | KU | Marine Garbage Cleanup Events as a Means of Community Engagement towards Tackling Marine Pollution |
| 2 | | Wareerat Prasitwiset | CMU | The Genetic Diversity and Maternal Lineage of Marine Mammals and Sea Turtles along the sea coasts of Thailand |
| 3 | | Jou-an Chen | NCYU | Cleaning beach in Aogu Wetlands Forest Park |
| 4 | | SUGIMURA Sakura and KAWAKAMI Ryo | KU | Marine garbage collection and survey in an uninhabited island in Seto Inland Sea: lessons learned from an experience |
| 5 | | Rotsukon Jawana | CMU | Vacuum Stripping Pretreatment of Chicken Manure for Sustainable Biogas Production |
| 6 | | Pin-yi Huang | NCYU | Cleaning beach in Aogu Wetlands Forest Park |

Poster Session

| No. | Sessions | Presenter | University | Title |
|-----|-------------------------------------|------------------------|--|---|
| 1 | Sustainability & Society Session | Yushan Li | NCYU | Exploration of High School Students' Sustainability Awareness and Social Responsibility cultivated by Club Activities: Taking the Alishan Youth Ambassador Club of Jhuci High School in Chiayi County as an Example |
| 2 | | Ting-Yi Li | NCYU | Study on Walking Exercise at Different Slopes for Elderly Individuals |
| 3 | | Fang-Ting Hsieh | NCYU | Investigating the Effects of Hydraulic Resistance Training on Functional Fitness in Older Adults |
| 4 | | Lin Yuchun | NCYU | Effects of Nordic Walking on the Elderly |
| 5 | Sustainability & Health Session | Kenji Wada | KU | Development of Support Iridium Catalysts for the Synthesis of N-Containing Chemicals |
| 6 | | Nang Kham-Kjing | CMU | Highly Specific and Rapid Detection of Hepatitis C Virus Using RT-LAMP-Coupled CRISPR-Cas12 Assay: a new diagnostic tool towards SDG 3 |
| 7 | | Nourin Jahan | KU | Possible contribution of phosphate to the pathogenesis of chronic kidney disease in dolphins |
| 8 | | Pimpinan Khammawan | CMU | Heterologous third and fourth dose vaccines reduce severity and mortality in COVID-19 patients during delta and omicron predominance: A cohort study in Chiang Mai, Thailand |
| 9 | | Jennifer Saulam | KU | Temporal trends in ischemic heart disease and stroke mortality attributable to metabolic risk factors in Japan, Taiwan, and Thailand from 1990 to 2019 |
| 10 | | Putida Pinthonglor | CMU | Effect of Antimicrobial Peptide LL-37 on Human Bone Marrow Mesenchymal Proliferation |
| 11 | | Mohammad Mamun Sikder | KU | PLAAT5 Producing Anandamide and Other <i>N</i> -Acylethanolamines in Testis |
| 12 | | Sakaewan Ounjaijean | CMU | Exploring the Potential of Alternative Medicine: <i>In Vivo</i> Study of <i>Gymnema inodorum</i> Leaf Extract as a Promising Antimalarial Treatment in <i>Plasmodium berghei</i> -infected Mice |
| 13 | | Waraporn Boonchieng | CMU | Innovation for Public Health Emergency Response and Community Health Data Management: Case Study COVID-19 in Chiangmai, Thailand |
| 14 | Sustainability & Technology Session | Jing-Lun Huang | NCYU | Interface Magneto-optical Faraday Effect for N^+ and CF_4^+ Plasma Treatment Co on Sapphires |
| 15 | | Worawoot Aiduang | CMU | Potential applications of mushroom mycelia to produce high-value added products in the biomaterials and food industries for future sustainability |
| 16 | | Jia-Wei Liang | NCYU | MFFPN: an Anchor-Free Method for Patent Drawing Object Detection |
| 17 | | Natchanon Ratanapun | CMU | Lipid-coated Nanoparticles as a Promising Vehicle for Zeolitic Imidazolate Frameworks-8 (ZIF-8) |
| 18 | Chi-Yu Sun | NCYU | A Reinforcement Learning-based Software Fault Localization Technique in Continuous Integration | |
| 19 | Sustainability & Tourism Session | Arinya Pongwat | CMU | Exploring Wellness Destination Key Success Factors: a Case of Mae Rim District, Chiang Mai Province |
| 20 | | Pairach Piboonrungrroj | CMU | Sustainable Tourism Development and Creative Economy: A Case of Creative Lanna Tourism in Chiang Mai |
| 21 | Student Session | Maytika Pattaratanarat | CMU | The Influence of Corruption on the Effect of Public Spending on Education Efficiency |
| 22 | Sustainability & Food Session | Toshisada Suzuki | KU | α -Glucosidase inhibitory activity of Kumis kucing (<i>Orthosiphon aristatus</i>) and tree marigold (<i>Tithonia diversifolia</i>) |
| 23 | | Marin Tokumoto | KU | D-Mannose production using D-xylose isomerase and D-mannose isomerase from <i>Priestia megaterium</i> M3. |
| 24 | | Natjira Noodang | CMU | Factors Affecting Conversion from Monocropping to Environmental Friendly Farming of Hmong Farmer at Si Khiri Rak Village, Wang Chao District, Tak Province |
| 25 | | Yoshifumi Sonobe | KU | Effect of pH on the dispersion stability of O/W emulsions homogenized in protein solution |
| 26 | | Koyuki Shinoda | KU | Characterization of L-fucose isomerase from <i>Escherichia</i> sp. BF3da and its application to D-altrose production |
| 27 | | Nuttinee Salee | CMU | Application of pulse electric field-assisted extraction for green tea extraction and synergism effect with black rice extract on anti-aging properties |
| 28 | | Yuka Fujisawa | KU | Interconversion between Rare Sugars; Equilibria of Sorbose to Idose or Gulose |
| 29 | | Makito Tomida | KU | Researching the effect of feeding insects to chickens on muscle growth using FTIR spectroscopy. |
| 30 | | Chatchai Khiewngamdee | CMU | Quinoa and Sustainability of Food in Thailand |
| 31 | | Riona Yabumoto | KU | Production of glucosyltagatose with cyclodextrin glucanotransferase |
| 32 | | Yamashita Yuri | KU | Establishment of a new re-staining method on the duodenum for the domestication of large rodent grasscutters |
| 33 | | Ting-Hsuan Huang | NCYU | Breeding of ethyl methanesulfonate mutagenesis in periwinkle (<i>Catharanthus roseus</i>) |
| 34 | | Sho HASHIMOTO | KU | Understanding how absolute humidity affects ectoparasite mite behaviours is crucial for increasing the i-Trap II capture |
| 35 | | Nayu Miyamoto | KU | Study on method of oxidation and reduction for rare sugar production and its application for D-allosyl D-fructose production |
| 36 | | Xin-Yun Jiang | NCYU | An Export Capability Evaluation for the New Mango (<i>Mangifera indica</i> L.) Cultivars Quarantined by Vapor Heat Treatment |
| 37 | | Akane Hirokawa | KU | How can one responsibly and safely utilise by-products as valorised insect feed? |
| 38 | | Hiroimi NAGATA | KU | The Challenges of Ensuring Insect Welfare in One Health and One Welfare Practice in Insect Production. |
| 39 | | Panida Boontawee | CMU | <i>In Silico</i> Drug Discovery of Inhibitors Targeting Main Proteases of SARS-CoV-2 and Mutated Variants as a Potential Treatment for COVID-19 |

Library Learning Commons



Guidelines for Poster Session 2023

Posting posters

- Please go to the reception at Olive Square Multipurpose Hall for registration from 11:00 to 12:00 on August 29th (Tue.)
- After registration, please go to the venue “Library Learning Commons” to post your poster at the designated area by 12:30 on the same day.

Removing posters

- Please collect your poster at noon August 31st (Thu.)

Poster Sessions: poster presentation, voting, and prizes

Venue: Library Learning Commons at Saiwai-cho Campus

| | |
|-----------------------|---|
| Posters displayed | Aug. 29th (Tue.) 12:30 to Aug. 31st (Thu.) 12:00 |
| Poster presentations: | Aug. 29th (Tue.), 15:30-16:30 Odd numbers: 15:30-16:00 Even numbers: 16:00-16:30 Presenters will make presentations next to their posters during the designated time. |
| Voting | Aug. 29th (Tue.), 15:30 to 18:00; Aug. 30th (Wed.), 8:30 to 13:00 (end of voting) ※Please note that the participants in Society, Health, Food and Technology Sessions need to vote on Aug. 29th (Tue.) as the venue for Aug. 30 th is away from the main campus. ※Ballots will be given at the venue for the Poster Sessions. ※Please beware that we will not accept any late ballots. Eligibility: Participating academic staff and researchers: 3 votes; Registered university staff: 3 votes; Participating students: 1 vote |
| Collection of posters | August 31st (Thu.), 12:00 |

“Best Poster Presentation” prizes will be awarded based on the results of voting (one person for each prize).

- First Prize: President Award
- Second Prize: Trustee Award
- Third Prize: Vice President, International Office Director Award
- The most voted student poster: International Student Center Director Award (excluding the three award-winners above).

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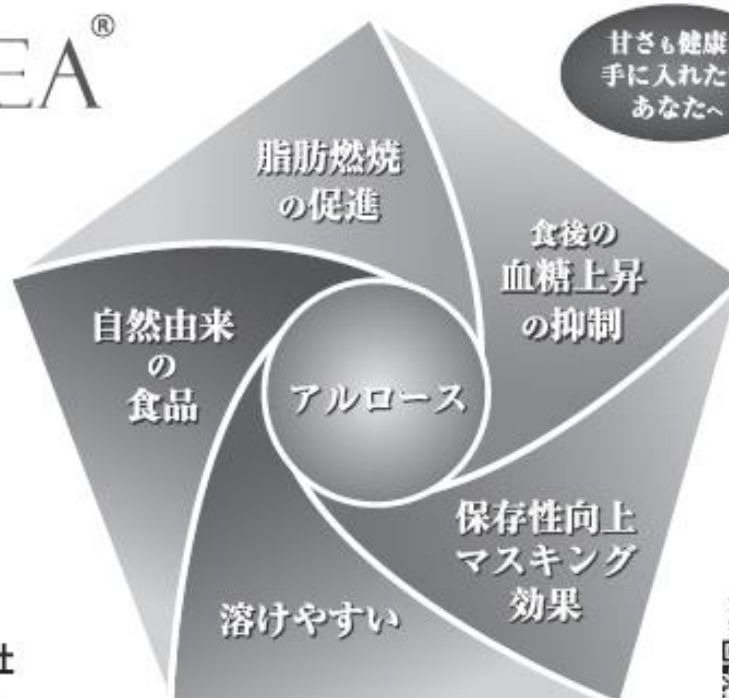
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