

**Tentative Schedule**  
**THE 3<sup>rd</sup> TRILATERAL SYMPOSIUM on Sustainability**  
**(Strategies for Climate Action and Mitigation of Climate Change Impacts)**



**August 27<sup>th</sup> , 2024 (Day 1): Kantary Hills Hotel**

**11:30 AM - 12:00 PM**

**Registration**

Doi Luang & Doi Nang Room

**12:00 PM - 01:00 PM**

**Lunch**

Nimman Bar and Grill & Party Room

**Opening Ceremony & Keynote Lecture:**

**01:00 PM - 01:40 PM**

**Opening**

Ceremony

**01:00 PM - 01:10 PM**

**Symposium Report by Vice-president of CMU**

Assoc. Prof. Dr. Winita Punyodom

**01:10 PM - 01:20 PM**

**Opening Address by President of KU**

Prof. Dr. Natsuo Ueda

**01:20 PM - 01:30 PM**

**Opening Address by Vice-president of NCYU**

Prof. Dr. Chun-Hsien Chang

**01:30 PM - 01:40 PM**

**Opening Address by President of CMU**

Prof. Dr. Pongruk Sribanditmongkol, M.D.

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**Opening Ceremony & Keynote Lecture:** Doi Luang & Doi Nang Room (2<sup>nd</sup> Floor)

**MC:** Lect. Dr. Pornchanok Ruengvirayudh

**01:40 PM - 02:10 PM**

**Keynote Lecture 1: Prof. Dr. Toru Terao, Faculty of Education, KU**

Title: "Status of Asian Climate Change and Climate Actions in Asian Universities"(What is Occurring in Asia, and What Shall We Do?)

**02:10 PM - 02:40 PM**

**Keynote Lecture 2: Prof. Dr. Wen-Lii Huang, College of Agriculture, NCYU**

Title: Establishment of an Integrated Low-carbon Footprint Production System in Rice

**02:40 PM - 03:10 PM**

**Keynote Lecture 3: Assoc. Prof. Dr. Sirichai Koonaphapdeelert, Energy Research and Development Institute-Nakornping, CMU**

Title: Chiang Mai University: Towards Carbon Neutrality

**Poster Session (Student and Non-student):** Front Area of Doi Luang & Doi Nang Room (2<sup>nd</sup> Floor)

**03:10 PM - 04:30 PM**

**Poster Presentation (to be run in parallel with oral sessions)**

(Break served during the session)

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### (Strategies for Climate Action and Mitigation of Climate Change Impacts)

#### Student Oral Presentation Room 1: Agriculture (7)

Doi Luang (2<sup>nd</sup> Floor)

Chair: Assistant Professor Dr. Pennapa Jaksomsak (CMU)

Co-chair: Dr. Jakchaiwat Kaweewong (CMU)

**03:30 PM – 03:45 PM**

Effect of ferritin on nitrogen fixation and growth of *Lotus japonicus* inoculated with *Mesorhizobium loti* and grown under nitrogen-free conditions. by **Ms. Michelle BAFEO (KU)**

**03:45 PM – 04:00 PM**

Effect of high temperature on flower coloration and pigmentation in *Ranunculus* 'Koharu Temari'.  
by **Ms. Yuna KITAMURA (KU)**

**04:00 PM – 04:15 PM**

Role of cysteinyl-tRNA synthetase in root nodule symbiosis.  
by **Ms. Asuka IKUTA (KU)**

**04:15 PM – 04:30 PM**

Mating pattern and ecology of diving beetle (*Eretes griseus*).  
by **Mr. Seita TAKEUCHI (KU)**

**04:30 PM – 04:45 PM**

Thermal behavior of salt-soluble proteins recovered from cricket muscle.  
by **Mr. Takeru FUJITA (KU)**

**04:45 PM – 05:00 PM**

Analysis of the chemical composition and molecular structure of grains from different rice varieties, and the quality changes during the Storage. by **Mr. Chih-Wei Chu (NCYU)**

**05:00 PM – 05:15 PM**

Inheritance pattern and high-throughput phenotyping of flower color in periwinkle (*Catharanthus roseus*).  
by **Mr. Ting Hsuan Huang (NCYU)**

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**Student Oral Presentation Room 2: Chemistry and Engineering (5)**

Doi Suthep 1 & 2 Room (1<sup>st</sup> Floor)

Chair: Professor Dr. Yang Cheng-Cheng (NCYU)

Co-chair: Associate Professor Dr. Ukrit Mankong (CMU)

**03:30 PM – 03:45 PM**

A novel physical technique to enhance the stability of starch gels against retrogradation using ultra-fine bubbles. by **Mr. Kazuki SHIRAYAMA (KU)**

**03:45 PM – 04:00 PM**

Effect of the rare sugar D-allulose on the texture properties of sourdough bread.  
by **Ms. Haoto KAWABE (KU)**

**04:00 PM – 04:15 PM**

Downregulation of XRCC3 expression enhances EGCG induced cytotoxicity and growth inhibition in non-small lung adenocarcinoma A549 cells.  
by **Ms. Pei-Jung Chen (NCYU)**

**04:15 PM – 04:30 PM**

Synthesis and Application of Pyrene Derivatives with  $\alpha$ -Ketoamide: Roussin's Red Ester as Nitric Oxide Donors. by **Mr. Yu-Chi Liu (NCYU)**

**04:30 PM – 04:45 PM**

An accurate mango fruit maturity feature estimation using 3D photogrammetry technique.  
by **Mr. Yu-Jen Shiau (NCYU)**

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### (Strategies for Climate Action and Mitigation of Climate Change Impacts)

#### Student Oral Presentation Room 3: Education, Law, Mass Communication, Digital Innovation (10)

Doi Nang Room (2<sup>nd</sup> Floor)

Chair: Associate Professor TAKAMIZU Toru (KU)

Co-chair: Assistant Professor Worakanya Buranaphatthana, D.D.S., Ph.D (CMU)

**03:30 PM – 03:45 PM**

The role of primary and secondary education in understanding hansen's disease.  
by **Ms.Kaho SHIRAKAWA (KU)**

**03:45 PM – 04:00 PM**

Background and resources for special education students in rural areas in Taiwan.  
by **Ms. Yi-Chia Wu (NCYU)**

**04:00 PM – 04:15 PM**

The present situation and strategies of special education teachers in rural areas in Taiwan.  
by **Ms. Pei-chin Hsueh (NCYU)**

**04:15 PM – 04:30 PM**

Promoting peace and justice: A comparative analysis of legal systems in Japan and Thailand.  
by **Ms. Sakura SUGIMURA (KU)**

**04:30 PM – 04:45 PM**

Connecting policies to people: How Thai government policy goes viral on TikTok through storytelling.  
by **Ms. Katesinee Rattanaphan (CMU)**

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**Student Oral Presentation Room 3: Education, Law, Mass Communication, and Digital Innovation (10)**

Doi Nang Room (2<sup>nd</sup> Floor)

Chair: Associate Professor TAKAMIZU Toru (KU)

Co-chair: Assistant Professor Worakanya Buranaphatthana, D.D.S., Ph.D (CMU)

**04:45 PM – 05:00 PM**

MONKWELL: Empowering Monks Through Line Official Account as a Personal Health Diary for Enhanced Health Literacy on Non-Communicable Disease (NCD) Prevention.  
by **Nutchaya Worapanyasakulchai (CMU)**

**05:00 PM – 05:15 PM**

Tha Phae Gate Ice Cream: Promoting Northern Thai Culinary Heritage through 3D Printed Technology.  
by **Khao Marukapitak (CMU)**

**05:15 PM – 05:30 PM**

LARY: Prototype for Developing an Application to Detect Voice Quality.  
by **Kornkamol liebsuetragul (CMU)**

**05:30 PM – 05:45 PM**

Storeon: Empowering Student Creativity through a Virtual Showcase and Business Hub.  
by **Witchavee Noinivorn (CMU)**

**05:45 PM – 06:00 PM**

Minecraft for Education: Using Gaming Platforms to Educate the Youth about SDGs with Low Code, with Education Accessibility for All! by **Chanchai Chan (CMU)**



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**August 27<sup>th</sup>, 2024 (Day 1): Kantary Hills Hotel**

**Welcome Party:** Doi Suthep 1 & Doi Suthep 2 (1<sup>st</sup> Floor)

**MC:** Lect. Dr. Pornchanok Ruengvirayudh

**06:30 PM**

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**08:40 PM**

**-Welcome remark (CMU)**

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**-Toast (NCYU&KU)**

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**-Khan Dok Dance**

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**-CMU Student Performance Show**

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**-Northern Fans Dance**

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**-KU Traditional Japanese Song and Dance**

The Faculties of Law and Economics will sing "Furusato," a Japanese ballad that evokes nostalgia of a more traditional time, while the Faculty of Agriculture will perform "Soran Bushi", a lively dance of the fishermen and the sea.

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**-Thai Folk Dance**

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**-NCYU Student Performance Show**

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**August 28<sup>th</sup>, 2024 (Day 2): Break-out Sessions**

(Each session has its own dependent schedule and is available in separate tables.)

**Session 1: Health Session**

**Host: Senior Wellness Center (SWC), Research Institute for Health Sciences (RIHES)**

**Venue: Senior Wellness Center**

**Chairs**

**Assoc. Prof. Dr. Kriengkrai Srithanaviboonchai, M.D. M.P.H (CMU)**

**Assoc. Prof. Dr. Uyama Toru (KU)**

**Prof. Dr. Chang Hsin-I (NCYU)**

**Session 2: Science and Technology Session**

**Host: Materials Science Research Center, Science and Technology Park (STeP)**

**Venue: Exhibition Hall, RSP North Building**

**Chairs**

**Asst. Prof. Dr. Chaiyasit Banjongprasert (CMU)**

**Prof. Dr. Hiramí Naotaka (KU)**

**Prof. Dr. Su Chiung-Wu (NCYU)**





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#### Session 3: Food Session

Host: Faculty of Agro-Industry

Venue: Faculty of Agro-Industry

##### Chairs

Assoc. Prof. Dr. Yuthana Phimolsiripol (CMU)

Prof. Dr. Nomura Mika (KU)

Asst. Prof. Dr. Wang Hsiao-Wen (NCYU)

#### Session 4: Social Session

Host: Chiang Mai University

Venues: Chiang Mai Housing Museum

##### Chairs

Assoc. Prof. Dr. Pornchai Wisuttisak (CMU)

Prof. Dr. Takagi Yumiko (KU)

Assoc. Prof. Dr. Lai Meng-Lung (NCYU)

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**Session 5: Tourism Session**

**Host: Center for the Promotion of Art Culture and Creative Lanna (ACCL)**

**Venues: Center for the Promotion of Art, Culture and Creative Lanna (ACCL),  
Queen Sirikit Botanic Garden (QSBC), Jirung Health Village**

**Chairs**

**Asst. Prof. Dr. Pairach Piboonrungrroj (CMU)**

**Assoc. Prof. Dr. Futatsuyama Tatsuro (KU)**

**Assoc. Prof. Dr. Chang Shu-Yun (NCYU)**

**Session 6: Climate Action Session**

**Host: Energy Research and Development Institute Nakornping (ERDI), Lanna Rice Research Center (LRRC)**

**Venues: Energy Research and Development Institute Nakornping, Lanna Rice Research Center**

**Chairs**

**Prof. Dr. Chanakan Prom-u-thai (CMU), Assoc. Prof. Dr. Sirichai Koonaphapdeelert (CMU),**

**Assoc. Prof. Dr. Apinpus Rujiwatra (CMU), Asst. Prof. Dr. Pruk Aggarangsi (CMU)**

**Prof. Dr. Terao Toru (KU)**

**Assoc. Prof. Dr. Chiou Show-Jen (NCYU)**



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#### Session 7: Student Session

**Host: Multidisciplinary and Interdisciplinary School, Faculty of Engineering,  
International Relations Division**

**Venue: CMU Main Campus, Kaomai Lanna Hotel and Resort**

#### Chairs

**Assist. Prof. Dr. Worakanya Buranaphatthana (CMU)**

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**Assoc. Prof. TAKAMIZU Toru (KU)**

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**Prof. Dr. Yang Cheng-Cheng (NCYU)**

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**August 29<sup>th</sup> , 2024 (Day 3): Kantary Hills Hotel**

**08:30 AM - 09:00 AM**

**Registration**  
Doi Luang & Doi Nang Room

**Conclusion Session: Doi Luang & Doi Nang (2<sup>nd</sup> Floor)**

**09:00 AM - 10:45 AM**

**Lesson learned from break-out sessions & discussion**

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**Session 1: Health Session**

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**Session 2: Science and Technology Session**

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**Session 3: Food Session**

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**Session 4: Social Session**

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**Session 5: Tourism Session**

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**Session 6: Climate Action Session**

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**Session 7: Students Session**

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**MC : Lect. Dr. Pornchanok Ruengvirayudh**

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**Conclusion Session: Doi Luang & Doi Nang (2<sup>nd</sup> Floor)**

**10:45 AM - 11:00 AM**

**Break**

**11:00 AM - 11:30 AM**

**Announcement of Student Poster and Oral Presentation Awards**

\*Up to 3 (Three) Best Poster Presenter Awards and up to 3 (Three) Best Oral Presenter Awards (Total of 6 (Six) Awards) will be granted to the presenters based on the assessment by selected experts in the relevant fields

**Symposium Closing Ceremony**

**11:30 AM - 11:40 AM**

**Closing Address by President of KU**

**Prof. Dr. Natsuo Ueda**

**11:40 AM - 11:50 AM**

**Closing Address by Vice-president of NCYU**

**Prof. Dr. Chun-Hsien Chang**

**11:50 AM - 12:00 PM**

**Closing Address by President of CMU**

**Prof. Dr. Pongruk Sribanditmongkol, M.D.**

**12:00 PM - 13:00 PM**

**Lunch**

**Note: CMU will arrange transportation during your stay at symposium.**