

List of Conference Chair

Conference Chair: The 5th Research, Invention, and Innovation Congress (Ri2C2024)

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8. Innovative Sustainable Science (iSS) Editor

Managing Editor: Peerapong Pornwongthong, KMUTNB, Thailand

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Aim and Scope of Ri2C2024

The 5th Research, Invention, and Innovation Congress (Ri2C2024) (<https://www.ri2c-kmutnb.com/>)

Session: Innovative Sustainable Science (iSS)

Venue: The Grand Fortune Hotel in Bangkok, Thailand

Conference date: August 8-9, 2024

Aim and Scope

Main topic coverages: Environmental and Energy Technology

The other topics related to Environmental and Energy Technology include, but not limit to

- Environment
- Energy and Earth Sciences
- Soil Sciences
- Hydrology
- Geography
- Energy Engineering (Production, Distribution and Storage)
- Renewable Energy
- Sustainable Development
- Natural Resource Management

Editorial Policies

Evaluation process

All full papers will undergo a double-blind peer review process involving at least two independent reviewers. The evaluation criteria include relevance to the conference scope, manuscript structure, scientific and logical merit, innovation, presentation quality, formatting, and adherence to publication ethics. Communication between the editorial office and reviewers will remain strictly confidential, and reviewers are expected to maintain confidentiality regarding all manuscript details. Following the review process, the editor will make a decision based on the reviewers' feedback, categorized as one of three outcomes: *Accept without Changes*, *Revisions Required*, or *Reject*. The review results will be communicated via email by the conference organizers.

Paper submission guideline

The full paper must be written in English and should present original, unpublished research or review work aligned with the iSS-Ri2C theme. The paper length should be between 7 to 10 pages. Full research papers should include the following key sections: 1) Abstract, 2) Introduction, 3) Materials and Methods, 4) Results and Discussion, 5) Conclusion, 6) Acknowledgment, and 7) References

Ethics in publishing

The publication ethics of iSS2024 are based on the guidelines and standards established by the Committee on Publication Ethics (COPE) (<https://publicationethics.org/>).

Plagiarism

Plagiarism and self-plagiarism are strictly prohibited in the iSS proceedings. All submitted manuscripts will be screened using plagiarism detection software. Manuscripts that pass the screening process, which includes evaluation by the editor, will proceed to the review stage.

Explore the **highlight video** and browse through photos from the RI2C 2024 event on the official website: [RI2C 2024 Spotlight](https://www.ri2c-kmutnb.com/ri2c-spotlight/) (https://www.ri2c-kmutnb.com/ri2c-spotlight/).

Opening Ceremony and Keynote Session

Venue: Grand Ballroom

Time: August 8, 2024, 9.00pm -12.00pm







iSS Oral Presentation Section 1
Venue: Fortune III Room
Time: August 8, 2024, 3.25pm -3.40pm
Session Chairs: Pitthaya Jamsawang
Co-chair: Panich Vootipruex

RI2C_2024_Paper_12 (Ri2C2024_04006)

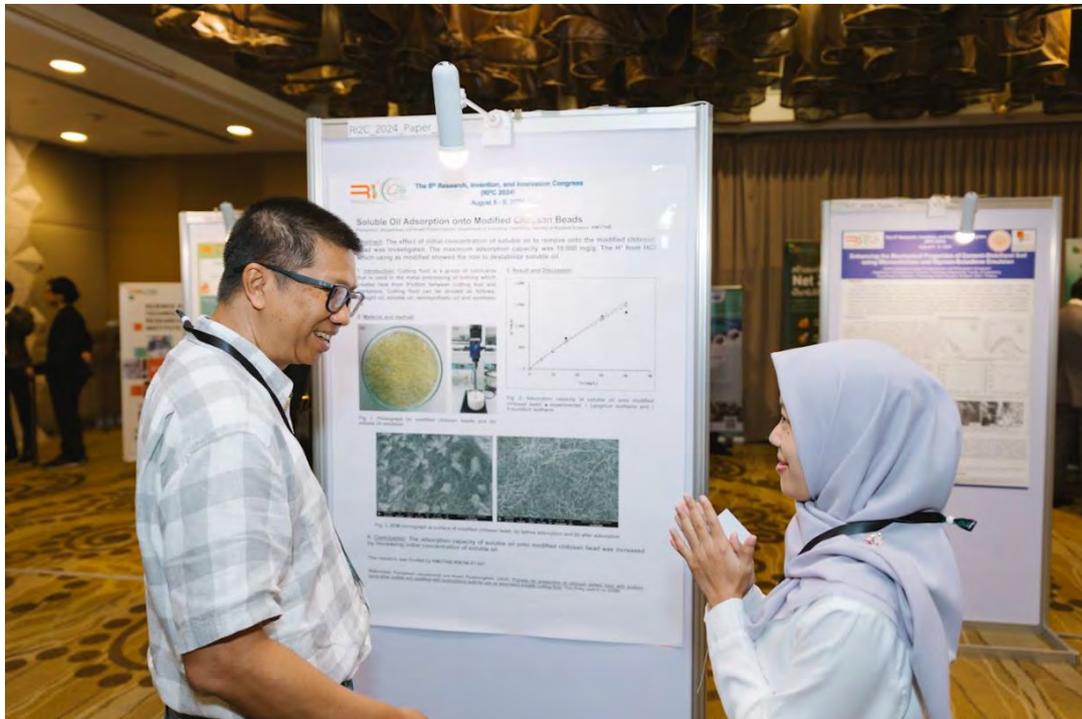


iSS Poster Section (Poster Presentation)

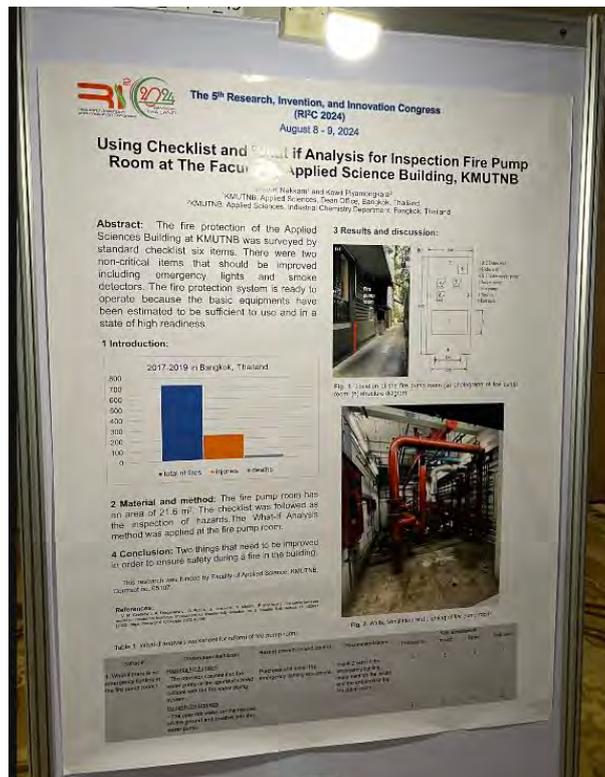
Venue: Fortune Gold Room

Time: August 8, 2024, 5.40pm -6.00pm

Ri2C_2024_Paper_15 (Ri2C2024_04002)



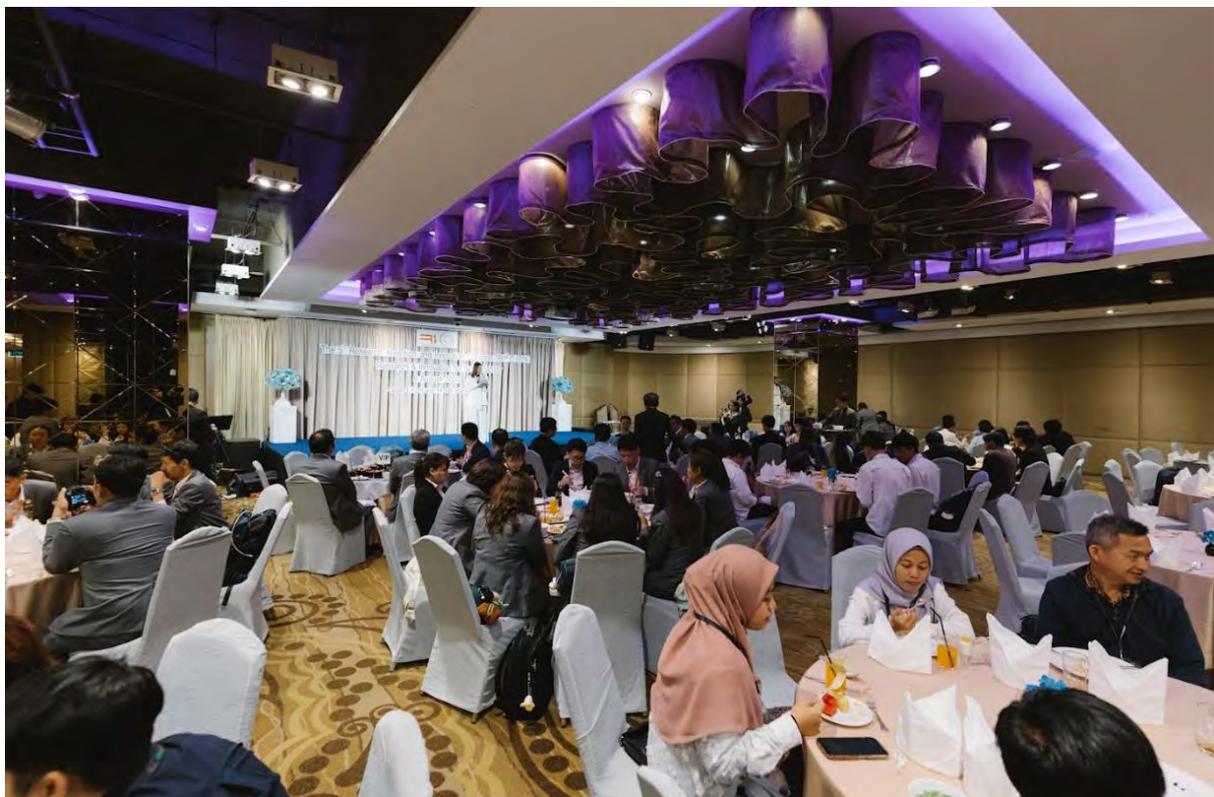
Ri2C_2024_Paper_43 (Ri2C2024_04004)



Dinner Party & Best Paper Award Presentation

Venue: Platinum Hall

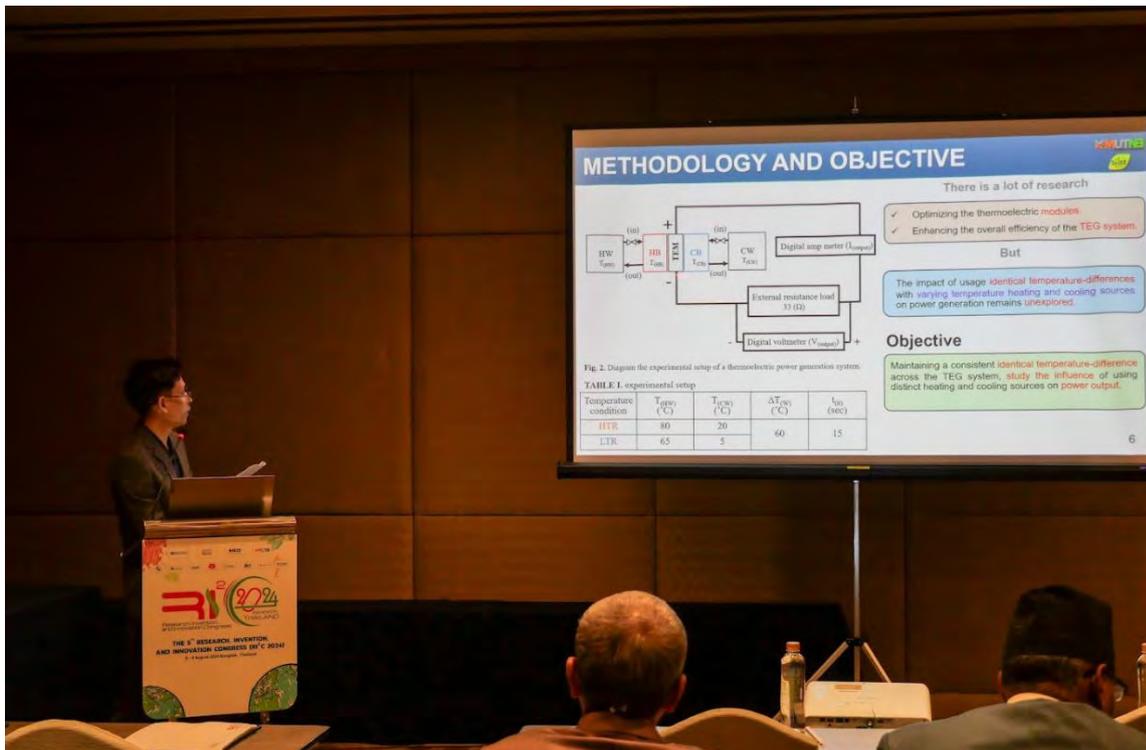
Time: August 8, 2024, 6.00pm -8.00pm



iSS Oral Presentation Section 2
Venue: Fortune II Room
Time: August 9, 2024, 9.00am -10.30am
Session Chairs: Lida Simasatitkul
Co-chair: Sak Sittichompoo

RI2C_2024_Paper_2 (Ri2C2024_01001)





METHODOLOGY AND OBJECTIVE

There is a lot of research

- Optimizing the thermoelectric modules.
- Enhancing the overall efficiency of the TEG system.

But

The impact of usage identical temperature-differences with varying temperature heating and cooling sources on power generation remains unexplored.

Objective

Maintaining a consistent identical temperature-difference across the TEG system, study the influence of using distinct heating and cooling sources on power output.

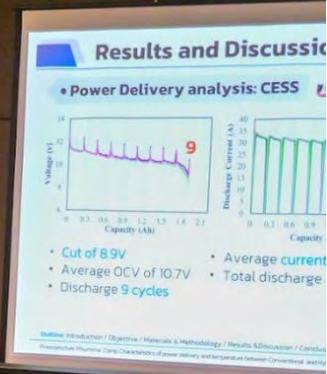
Fig. 2. Diagram the experimental setup of a thermoelectric power generation system.

Temperature condition	$T_{(H)}$ (°C)	$T_{(C)}$ (°C)	$\Delta T_{(H)}$ (°C)	$V_{(H)}$ (mV)
HTR	80	20	60	15
LTR	65	5		









iSS Oral Presentation Section 3
Venue: Fortune II Room
Time: August 9, 2024, 10.45am -12.00pm
Session Chairs: Thasanporn Sangsukiam
Co-chair: Vanarat Phakeenuya

RI2C_2024_Paper_9 (Ri2C2024_02001)











iSS Oral Presentation Section 4

Venue: Fortune II Room

Time: August 9, 2024, 1.00pm -2.00pm

Session Chairs: Ratchanee Charoen

Co-chair: Kullapon Kesonkan

RI2C_2024_Paper_19 (Ri2C2024_03001)

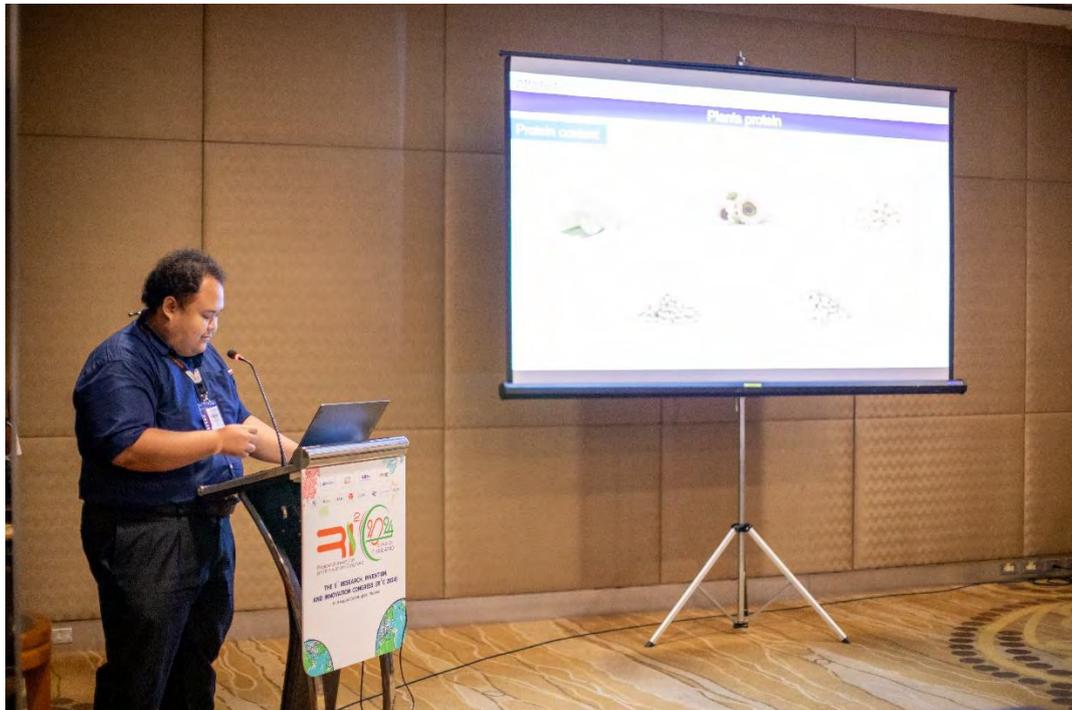






iSS Oral Presentation Section 5
Venue: Fortune III Room
Time: August 9, 2024, 1.15pm -1.45pm
Session Chairs: Wanlop Kitisatorn
Co-chair: Thamrongsin Siripongsakul

RI2C_2024_Paper_42 (Ri2C2024_02006)



iSS Oral Presentation Section 6
Venue: Fortune II Room
Time: August 9, 2024, 2.10pm -2.55pm
Session Chairs: Peerapong Pornwongthong
Co-chair: Kullapon Kesonkan

RI2C_2024_Paper_3 (Ri2C2024_04001)





