

Promoting Teacher Education for Climate Change Education and its impact on the school community: A case study from Albukhary International University

- Prof Munirah Ghazali ^{1,2},
- Assoc Prof Dr Tengku Shahrom
- Tengku Shahdan ¹,
Dr Nooraida Yakob ^{1,3},
- Aina Yasmin Mohd Amin ¹,and
- Nurul Huda Hassan Basri ¹

1. Albukhary International University

2. Universiti Sains Malaysia.

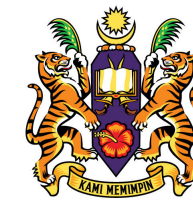
3. Pelitawanis Port Dickson, Negeri Sembilan



13th Global RCE Conference

31 October - 2 November 2023 | Kuala Lumpur, Malaysia
Hosted by RCE Greater Gombak & RCE Greater Kuala Lumpur

'WHOLE COMMUNITY APPROACH FOR ESD'



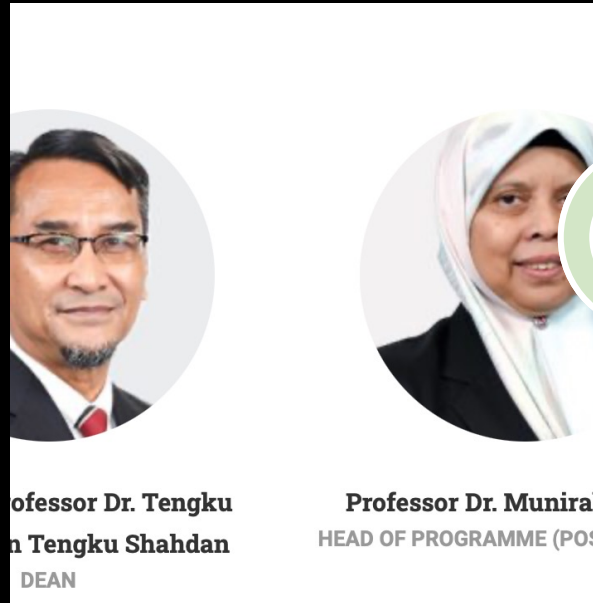
UNIVERSITI SAINS MALAYSIA



ALBUKHARY INTERNATIONAL UNIVERSITY



• The team



Professor Dr. Tengku
Shahdan
DEAN

Professor Dr. Munirah
HEAD OF PROGRAMME (POS)

Overview of the presentation


- 3 key focal areas
- Objectives
- Enhancing CCE Knowledge among Preservice Teachers through the Lechadiss (lecture, hands-on activity, and discussion) Technique
- Formation of Student Interest Group in the 3 Zero Club
- Schools as Living Laboratories
- Future Plans
- Conclusion

Three key focal areas:

- 1. Implementing the Lechadiss technique to heighten students' awareness of Climate Change Education (CCE).
- 2. Formation of student action group committed to increasing awareness and disseminating knowledge about Climate Change Education (CCE). Team Enalife was established and registered under the 3 Zero Club (Environment and Climate Change) under the purview of the 3Z Global Centre.
- 3. Promotion of collaboration and engagement with primary schools in Alor Star through the SEHS AIU annual Teaching Practicum program: schools partnering with SEHS to create a 'Living Laboratory' dedicated to Climate Change Education.



objectives:

- Development of Student Leadership: Our primary goal is to nurture student leadership with a strong focus on Sustainable Development Goal (SDG) 13 - Climate Action.
 - Empowering Student Leaders: We aspire to empower students to become leaders in advocating for SDG 13 as an integral part of their social entrepreneurship endeavors.
 - Enhancing Collaboration: We seek to strengthen collaboration between the university and local schools, creating an environment that fosters climate change education among teachers and students.
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Enhancing CCE Knowledge among Preservice Teachers through the Lechadiss (lecture, hands-on activity, and discussion) Technique

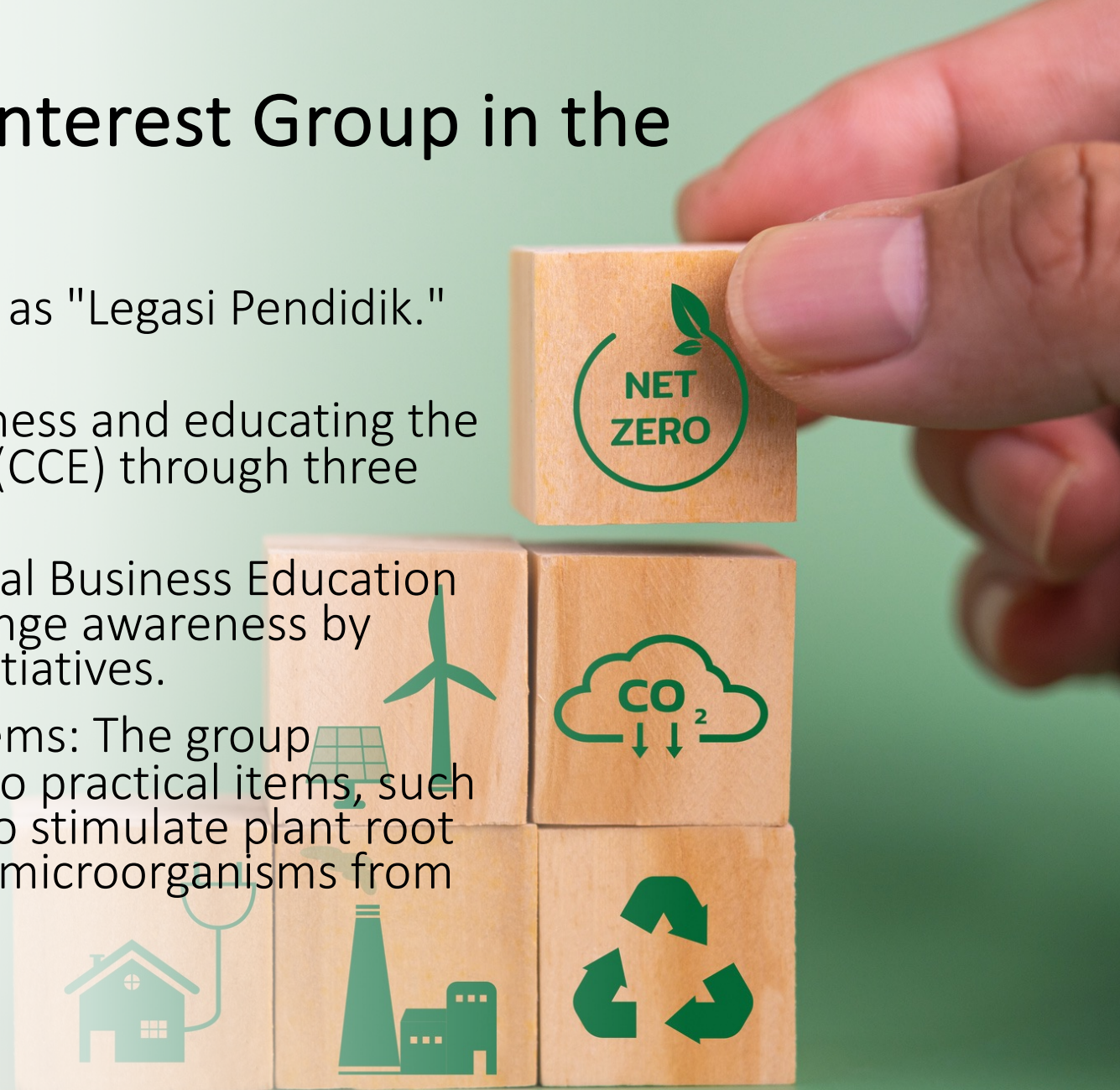
24 preservice teachers from Albukhary International University enrolled in the Elementary Science course, which covers ecosystems and climate change extensively.

The Lechadiss technique comprised a 2-hour lecture, a 1-hour hands-on activity, and a 1-hour discussion.

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	PreContent	1.8333	24	.63702	.13003
	PostCont	3.0000	24	.72232	.14744
Pair 2	PreUnderstanding	1.8333	24	.63702	.13003
	PostUnder	2.9167	24	.77553	.15830
Pair 3	PreReasoning	1.5417	24	.50898	.10389
	PostRea	2.5417	24	.50898	.10389
Pair 4	TotalPre	5.2083	24	1.66757	.34039
	Totalpost	8.4583	24	1.88770	.38532

Formation of Student Interest Group in the 3 Zero Club

- establish an action group known initially as "Legasi Pendidik." but later is named Enalife.
- This group is dedicated to raising awareness and educating the public about Climate Change Education (CCE) through three core initiatives:
- Climate Change Awareness through Social Business Education Initiatives: Enalife promotes climate change awareness by engaging in social business education initiatives.
- Upskilling Waste Products into Useful Items: The group endeavors to convert waste products into practical items, such as producing Effective Microorganisms to stimulate plant root germination. Notably, they derive these microorganisms from household waste, including eggshells.



Recycle and Re-use



We also collected waste that can restore soil structure back and provide nutrients for the soil. We collected egg shells that have been proved to have such abundance nutrients such as (calcium, magnesium, potassium, iron, and phosphorus) for a healthy soil and fertiliser.

We also produced o
microorganisms (EM)
stimulate root develo
plants and improve the



Schools as Living Laboratories



As part of our initiative, we collaborated with a primary school in Alor Star to establish a 'Living Lab for Climate Change Education.' This living lab will be an innovative platform for Enalife 3 Zero Club members during their teaching practicum, allowing them to apply their knowledge and engage students in hands-on climate change education.



One of the engaging activities hosted at the school was Innovative Resource Utilization

Additionally, our team has actively repurposed waste products to create valuable resources.



We have successfully produced Effective Microorganisms (EM) to stimulate plant root germination from household waste, such as eggshells and other organic materials. This initiative aligns with our commitment to sustainable practices and demonstrates the potential of transforming waste into useful products.



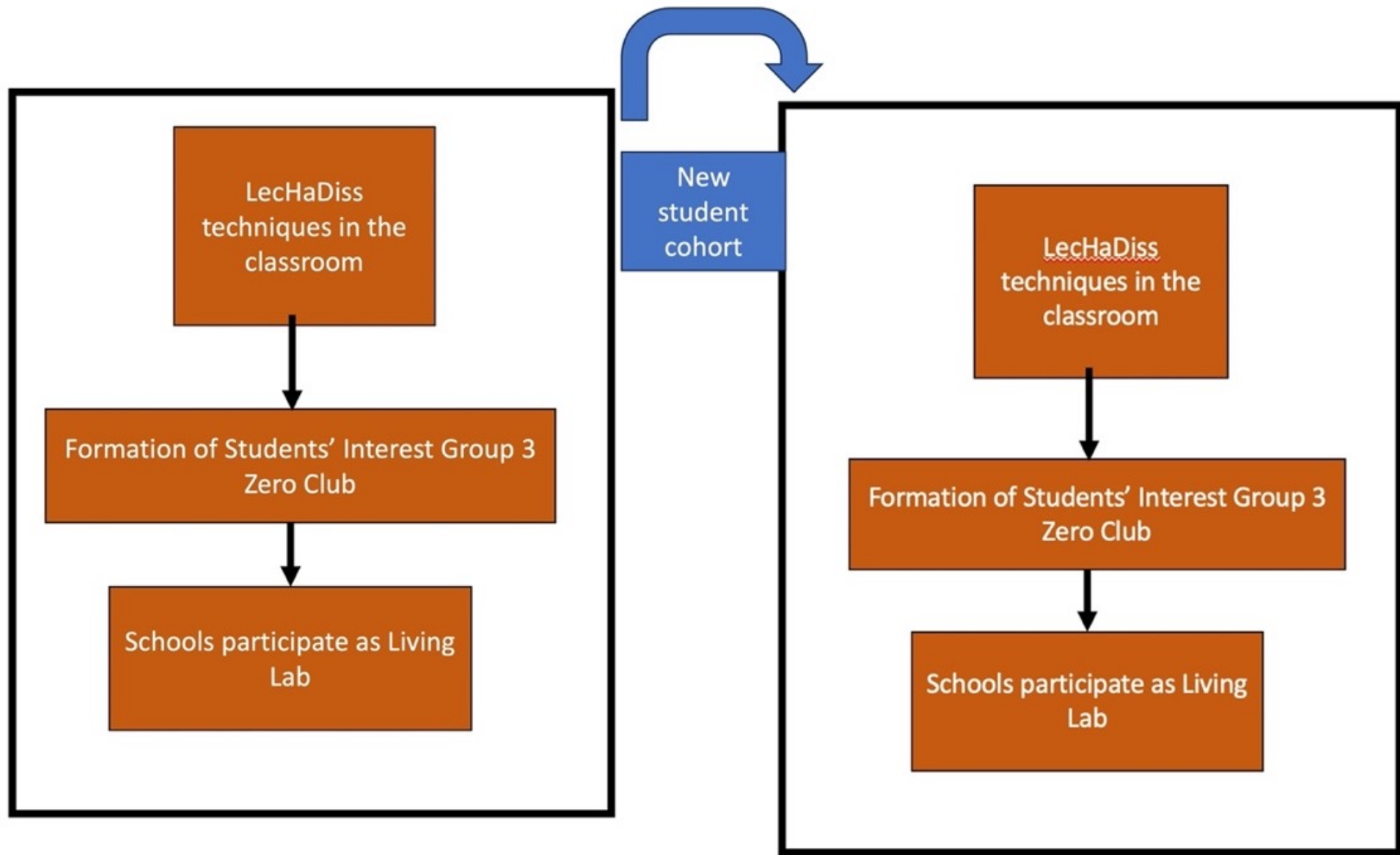


Living lab activities

Future Plans

workshop focused on various climate change-related topics and activities designed to enrich the learning experience.

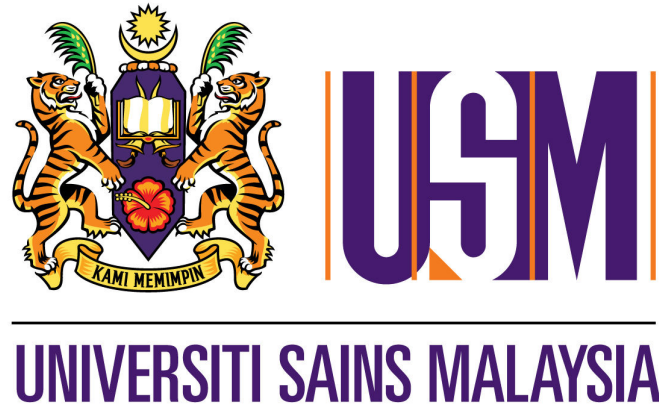
Collaboration with more primary schools



Thank you

Acknowledgement: Promoting Teacher Education for Climate Change Education through Collaboration between Asian Centres of Excellence on Education for Sustainable Development (ATECCE) project

Organizer
Okayama University and Asia-Pacific Cultural Centre for UNESCO (ACCU)
Sponsor
Fund for the Promotion of Joint International Research, Japan Society for the Promotion of Science (JSPS) in Cooperation with UNESCO Bangkok



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