

**AY2022 Center for Inclusive Leadership (CIL)
Research Project Grant**

研究代表者 Research Representative	所属・職位 Affiliation/Position	APS	氏名 Name	FAEZEH MAHICHI
研究課題名 Research Title	Towards Developing a Pedagogy for Inclusive Environmental Citizenship Education			
研究メンバー Research Group Members	氏名 Name	所属 Affiliation	職位 Position	
	ROUX PETRUS WILLEM	APU	Associate Professor	
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	DASANAYAKE RANAHANSA	Institute for Applied Material Flow Management (IfaS), Trier University of Applied Sciences, Germany Alumni of APU-IMAT Dual Master Program, Class 2012	Lecturer	
	TAKEKAWA DAISUKE	Faculty of Humanities, University of Kitakyushu, Japan	Professor	
2022 年度 研究経過 (研究経過・到達点を明確にご記入ください。800~1,000 字) AY2022 Research Progress (Please clearly state the research progress, results, approx. 400 words.)				

The current project has a 2-year scope with the development of a pedagogy for inclusive environmental citizenship education. The project draws upon several local community structures adjacent to our university and centralizes three main pillars: (1) a pedagogy for higher education, (2) environmental citizenship education and (3) diversity management and inclusivity. We focus on identifying research overlaps and gaps, collecting data, and utilizing and/or developing appropriate research tools to explore, map and delimit the area. We utilize an action research model, with mixed-methods, and explorative research method. This approach aims to generate theory based on forms of in-situ, observed and participatory education where data is generated through traditional- and experience-based learning. Based on the findings, we will attempt to construct a preliminary framework to underpin the development of an inclusive environmental citizenship education that is relevant to our institution, and appropriate for international education within a Japanese context. The result of our research for June 2022 to end of March 2023 is as follow:

1) Designing research instrument

We have designed a survey questionnaire as the research instrument consists of: (a) learning needs & expectations surveys; (b) Environmental Citizenship Questionnaire (ECQ); (c) Cultural Intelligence Questionnaire (CQFS); and (d) measures for inclusivity & diversity management. The survey was approved by APU's Research Compliance/Ethics Review Research (approval number 2023-1).

2) Presenting in AP Conference 2022:

The title of our presentation as: “Designing an Inclusive Pedagogy for Environmental Citizenship Education: Results from a Learning Analysis at an International University in Japan.”

We presented the result of our conducted survey questionnaire to 1) assess the development of Environmental Citizenship in students, 2) Understand impact of the course content on the development of cultural intelligence (CQ), 3) survey the perceptions of inclusive practices and sense of inclusion & belonging among students at APU.

3) Inviting guest speakers to APU courses:

In order to contribute to inclusive teaching and learning in APU classrooms, we invited guest speakers from the local community, industry, environmentalist and APU environmental student club members. The talks provided an opportunity for students to learn from the best practises from the speakers. Furthermore, it welcomed the guests to be a part of learning design (please see the figure 1 for the details of the invited guest speakers).

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Saving Fireflies, Saving Ourselves

Building an Inclusive Society through Saving the Fireflies of Beppu, Japan



Speakers: Ms. Nobuko Takahashi (KEPC Leader)
Mr Tsuru Toshihiko (KEPC Member)
Mr Kazuki Osaka (ECOS Leader, APU) & Mr Mahn (BGG Leader, APU)

Date: Mon. July 4th ,2022, 1st period (8:45-10:25), Hybrid format: APU F204 & Zoom ID: 91566777459
Mon. July 4th ,2022, 2nd period (10:35-12:15), Hybrid format: APU F204 & Zoom ID: 97161006550

“Saving Firefly” was the starting point for the local volunteer groups in Beppu, the Kamegawa Environmental Protection Club (KEPC). Since 2005 the group has been actively conducting restoration of fireflies of Hiya River and Sea turtles in Sekinoe beach. From 2012 APU Student Environmental protection club, Symbio and Professor Mahichi have regularly collaborated in the restoration activities. In 2017, the student volunteer group of ECOS (Environmental Community for Sustainability) also joined. Many APU students, staff and faculty have joined the volunteer activities ever since.

In this talk, the members of KEPC, ECOS, BGG and Professor Mahichi will share the collaborative activities for saving fireflies that started as “Saving Firefly” journey for “Saving Ourselves” and “Sustaining Nature”.

The content of both talks is the same. The lecture will be held in Japanese and English, and everyone is welcome to join.

Facilitator: Professor Faezeh MAHICHI Email: fmahichi@apu.ac.jp

Dialogue Between Generations

Mr. Masaki Takashi 正木高志, a story-teller, environmentalist and organic farmer will visit APU to have a discussion with our students. In our Biodiversity course, we have studied his work and his recent book *Earth Cocoon*. During the dialogue sessions, Mr. Masaki will share his rich experience and knowledge of Non-Dualism and offer insights into how we may safeguard and live in harmony with nature, while sustaining our natural resources for future generations.

Bring your questions and join us in the dialogue toward building
"An Inclusive Sustainable Future".



Annapurna Organic Farm



Speakers: Mr. Masaki Takashi
& APU Students

Date: Thu. Nov 10th,2022, 3rd period (12:30-14:10), **Hybrid format:** APU F202 & Zoom ID: **959 2869 2714**
Fri. Nov 11th,2022, 3rd period (12:30-14:10), **Hybrid format:** APU F203 & Zoom ID: **913 3123 3300**

The lecture will be held in English, and everyone is welcome to join.

Facilitator: Professor Faezeh MAHICHI **Email:** fmahichi@apu.ac.jp

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Saving our Food System, Saving Nature Building an Inclusive Society through Community Organic Farming in Beppu, Japan



Speakers: Mr Toshihiko Tsuru (KEPC Deputy Leader)
Mr Kazuki Osaka (ECOS Leader, APU)

Date: Thu. January 19th, 2023, 4th period (14:20-16:00), Zoom ID: 962 1325 5494

"Protecting nature and passing it on to our children" was the starting point for local volunteer groups in Beppu, Japan, which marked the founding of the Kamegawa Environmental Protection Club (KEPC). Since 2002, the group has been actively conducting restoration and maintenance of the habitats of fireflies (Hiya River) and Sea turtles (Sekinoe beach). From 2012 onwards, the APU Student Environmental protection club, Symbio and Professor Mahichi have regularly collaborated in restoration and maintenance activities. In 2017, the student volunteer group ECOS (Environmental Community for Sustainability) also joined. KEPC and ECOS started a community organic farm, Beppu Global Garden (BGG) in 2019. Since then, many APU students, staff and faculty have volunteered to participate in the growing and harvesting of organic product and have helped to maintain and extend the garden.

In this talk, the members of KEPC, ECOS, BGG and Professor Mahichi will share the collaborative activities for saving the firefly habitat that started as "Saving Nature of Hiya River" and "Community Organic Farming" journey for "Saving Ourselves" and "Sustaining Nature".

The lecture will be held in Japanese and English, and everyone is welcome to join.

Facilitator: Professor Faezeh MAHICHI

Email: fmahichi@apu.ac.jp

Figure 1. Inviting guest to APU courses

4) Advising and working closely with the APU students & Leadership development:

Members of the research team have been working with the APU student club, ECOS (Environmental Community for Sustainability) and Beppu local community, KEPC (Kamegawa Environmental Protection Club). We have participated in the cultural and environmental protection events conducted jointly by KEPC and ECOS to observe the inclusivity amongst APU student bodies and local environmental activists' communities. We have consistently worked to develop capacity, to create and sustain connections between local organizations and APU students and have invested time and energy into student leadership development.

2022 年度中の研究発表 (予定を含めてご記入ください)
Publication of Research in AY2022 (journal articles, conferences, etc.) (Please include future plans as well)

発表方法 Publication Methods	詳細 Details		
著書・論文等 Books or Articles	著書・論文名等 Title of Books or Articles	出版社／掲載誌・巻号等 Name of Publisher / Name and Volume of Journal	刊行年月日 Date of Publication
学会等 Presentation at an Academic Conference	タイトル Title	学会名 Name of an Academic Conference	発表年月日 Date of Presentation
	Designing an Inclusive Pedagogy for Environmental Citizenship Education: Results from a Learning Analysis at an International University in Japan	AP Conference	2022/12/03
その他 Others			

2023 年度 研究計画 (800～1,000 字)
Research Plan for AY2023 (Please clearly state the research progress, results, approx. 400 words.)

In the coming year, we will continue to collect data through the established research plan we have followed thus far. In addition, we will continue with data analysis and the writing-up of research findings achieved thus far, with a view to publication of at least two academic articles. Some of our members (at least two) will likely also participate in training for Systems Thinking to enable the team to design a more comprehensive pedagogical framework for sustainability.

We are planning to disseminate the research achievements to academic society and public through the using the following methods:

- Conferences AY2023: AP Conference, 2023 / iREEC March 2024
- Publications AY2023-24: 2 articles
- CIL website & publication
- APU/Beppu city – website publication, newspaper, community news
- Public workshops in collaboration with local community organizations