

## UPDATES: The BRYCE Project Progress and Developments

The Biodiesel Reactor Yielding Commercially-available Energy or BRYCE is a project which started last 2021. The project aims to design and develop a portable biodiesel reactor capable of converting waste cooking oil to biodiesel through aeration-assisted alkali-catalyzed transesterification. This project comes a long way and further developments had made in the design transforming the original project from BRYCE 1.0 to BRYCE 2.0 trying to address the problems that arose from the first one. The summary of progress on its achievements can be seen here. For the BRYCE 2.0, the project aims to fully automate operating system and made additional changes on its design specifications that would provide easier control leading to an increased efficiency of biodiesel production from waste cooking oil using alkali-catalyzed transesterification. After the completion of the project, beneficiary will utilize the said technology. With this project, the University can contribute to the attainment of the target sustainable development goals relevant to this project.



# Batangas State University

Center for Innovation in Engineering  
Education

## GAWAD KALINGA 2019

On April 8-11, 2019, TEAM BRYCE 1.0 with the help and collaboration project with the Singapore polytechnic thru the LEXPLUS program and BatStateUCTI, the team was able to perform the troubleshooting of Technology and Finalization of Technology Transfer with Chosen Community. The Project operation was demoed by Team Bryce on April 12, 2019, at Gawad Kalinga Arceo Village in Brgy. San Pedro, Batangas City



## TEAM BRYCE WITH THEIR TEAM LEADER

SHELL LIVEWIRE 2021

RBINET



## SPEAR PITCH COMPETITION

After competing, **BRYCE 1.0** was awarded as **one of the top 5 winners** in the spear pitch competition. It was a 3-day Booth camp on May 8 – 10, 2019, and held at Kahariam Farm, Barangay Adya, Lipa City. BRYCE 1.0 received a cheque amount of **Php 30,000.00** as a prize for winning this competition.



After a series of evaluation interviews, BRYCE was **one of the Top 10 Tech Startups of Shell Livewire 2021**. Shell LiveWIRE is the corporation's flagship worldwide enterprise development program. Its purpose is to help local communities by supporting and growing their enterprises, with the goal of eventually integrating them into the Shell business ecosystem.

ASEAN Business Incubation Network (ABINet) project is a multi-year project designed to promote SMEs' competitiveness and strengthening of TBIs through capacity building and regional networking and linkages among the incubators in the ASEAN region.

ABINet was held on July 16-18, 2019, at World Trade Center. DOST was also held in this place. BRYCE was the representative of BatStateU TBI (Technology Business Incubator) and the delegate of Team Philippines. This was the first exposure of the BRYCE as a STARTUP.

## 32<sup>nd</sup> PICHE NATIONAL CONVENTION

BRYCE became **one of the top 3 finalists** in the first-ever startup challenge hosted by UMASENSO HUB last February 2022.

## LIKHA AWARD

BRYCE Research entitled **“An Aerated-assisted Transesterification for Biodiesel Production”** was awarded **first place** in the Likha Award for Outstanding Government Funded Creative Research on the 29<sup>th</sup> of September 2021 during the **2021 Regional Invention Contest and Exhibits in Region IV-A (CALABARZON)**.

## WED Hackathon

BRYCE is one of the BatStateU delegates on the first WED Hackathon by UNESCO. They received the Highly Commended Award in July – September 2021.

## STARTUP EXHIBITION

On February 15, 2021, the ribbon-cutting ceremony of BatStateU PEZA Special Economic Zone Institute was held at STEER Hub of Batangas State University. BRYCE was one of the CTI Startups that was given the chance to demonstrate in front of the Indian Ambassador and other BatStateU PEZA Locators.



