## **RECWET Special Seminar Series #38**

By Professor Jaeweon Cho, School of Urban and Environmental Engineering Center, Science Walden Ulsan National Institute of Science and Technology (UNIST)

Date and time: 13:30 – 14:30, April 15<sup>th</sup>, 2019 (Monday) Place: Meeting room #802 in Engineering Building #14

## Title "Convergence of Science and Arts: Technologies of Community in Circular Economy"

## ABSTRACT

What if we do not use flushing toilets instead convert feces into bio-gas and fertilizer to be used for our community, which is new values? With this, Science Walden center builds a in-between lab (called Science Cabin) accommodating engineering experiments and everyday based living, inside UNIST campus.

IN THE SCIENCE CABIN, THERE ARE UNITS OF BIO-GAS (METHANE) PRODUCTION AND WATER RECLAMATION CONNECTED TO THE TOILETS AND SEWERS. PURIFIED GAS AND RECLAIMED WATER ARE BEING USED FOR FURTHER FOR RESIDENTS IN SCIENCE CABIN.

FROM THE VALUES WITHIN CONCEPT OF CIRCULAR ECONOMY, A COMPLEMENTARY CURRENCY, NAMED FECES STANDARD MONEY (FSM), WAS INTRODUCED TO FACILITATE ACTIVITIES IN THE COMMUNITY. APPLICATION WITH FSM HAS BEEN USED AT THE CAMPUS TO BE USED FOR DESIGNATED TRANSACTIONS. THROUGH RESEARCH IMPLANTATIONS, PARTICIPANTS MAY RECOGNIZE, WITH THEIR EXPERIMENTS NOT KNOWLEDGE, IMPORTANCE OF BOTH TECHNOLOGIES AND SYSTEMATIC FUNCTIONS WITH COMMUNITIES, TO SOLVE ENVIRONMENTAL AND SOCIAL PROBLEMS.



Jaeweon Cho is now a professor of Environmental Engineering, UNIST, co-editor of journal, Desalination (Elsevier), and director of Science Walden which is center with convergence of science and arts. He introduced a new concept of feces standard money (fSM) as signifier to bring new values into communities with circular economy.