



PRESS RELEASE (2016/05/20)

**Challenge & Creation (C&C) 2015 winning project
(President's Award)**

With the idea of producing a creative, challenging environment, C&C was begun in 1997 as an annual university-wide effort designed to provide assistance to unique ideas and research projects planned by Kyushu University students. The program now epitomizes Kyushu University's unique approach to education. Ideas and study projects proposed by individual students and groups of students are evaluated for novelty and societal impact, with eight teams being selected to receive up to 500,000 yen to support their activities to realize the project goals. About one year later, the teams present reports on their projects and are evaluated, with the honors going to the winning team. Moving towards the realizations of the goals that they set for themselves, the students grapple with the issues they have to face up to, and learn a great deal through the series of processes they have to continue pursuing in order to solve the issues. C&C is one of the main projects of QREC.

Applicant Review Board for 2016 academic year
Date : Sunday 22th May, 2016 13:00~
Place : Silicon Valley Room , 2F Common Facility 1 , Ito Campus

A word from Instructor :

The winners of the Best Awards include projects that have won prizes at competitions held overseas, or have started to open up new avenues in collaboration with regional businesses. Above all, what is most valuable is that the students learn for themselves through daily tackling issues concerning the projects they have chosen and through activities that are experimental attempts to solve the issues. These are the ultimate goals that are the whole point of the C&C concept.

The Development and Popularization of an Artificial Bone Fabrication Network System through the Application of Computers and 3D Printers in Alveolar Bone Resorption Care

Project Representative: Naruto Otawa

In recent years implants have become a common practice in odontotherapy, but dentists have to manually mold bones themselves when treating patients suffering from alveolar bone complaints, creating a major burden for both dentist and patient. In this project a 3D scanner measures the state of the bone damage while a 3D printer molds the shape of the damaged bone with absorption biomaterial, the artificial bone then being implanted on the patient. The project will be time-consuming as the consent of the supervisory agencies is required, but the concept is advanced and its social significance considerable.



Wind Turbine Innovation Project

Project Representative: Yuya Otaki

Low altitude small-scale generators are currently the focus of interest in the Japanese wind power market. However, at low altitudes the wind fluctuates greatly and it has therefore been difficult to obtain efficient power generation. Our team has previously succeeded in the development of a test wind tunnel of our own design for taking measurements, and this latest project can be highly evaluated for the way it balances optimal power generation with large reductions in costs based on the measurement values it provides. The project won the Best Technology Award at the TECO Green Tech 2015 competition held in Taiwan.



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