

Global PBL through “Ice-Melting Rally”

Implementation period	Implementing country	SIT's implementation partner organization	Target students	participant	SIT instructor
2019/08/01 ~2019/08/08	Japan	National Taiwan University of Science and Technology Loyola college Widya Mandala Catholic University Surabaya	Applied Chemistry, Mechanical Engineering, Department of Engineering Science and Mechanics, Materials Science and Engineering, Department of Electrical Engineering, Department of Information and Communications Engineering, Department of Communications Engineering, Department of Electronic Engineering, Department of Civil Engineering, Department of Computer Science and Engineering Undergraduate 1st grade, Undergraduate 2nd grade, Undergraduate 3rd grade, Undergraduate 3rd grade, Master 1st grade, Master 2nd grade	(SIT) Students 25, TA 15, Professor 3 (National Taiwan University of Science and Technology) Students 10 (Loyola college) Students 10 (Widya Mandala Catholic University Surabaya) Students 10	yoshimi yasuo(Department of Applied Chemistry)、nomura mikihiro (Department of Applied Chemistry)、hori akiko (Department of Applied Chemistry)



Image 1

“Ice Melting Rally” was the main event of the program. International teams composed from Indian, Indonesian, Taiwanese, or Japanese team create manuals of the procedure to melt ice blocks of 3.5 kg just within 75 min using tools or materials bought at shops around SIT Toyosu Campus within a budget of 540 JPY. The manuals were exchanged between other team and the teams performed the procedure described in the given manual. The results were analyzed and presented. The teams who performed the best in the rally (melting time was the closest to 75 min), who made the best presentation, and who made the best manual were awarded. According to the questionnaire to the all participants, most of them were satisfied with the program. But the representative professor (Y.Y.) felt it regrettable that the participants were less creative than the high school students who performed the similar event a week before. (Most of the teams sprinkled salt on the ice but it didn't work necessarily.) Team composition was announced before their trip to Tokyo so that they have enough time for discussion. But they probably did effort to find the point of compromise in the team rather than to get outstanding idea, which requires very huge energy. Therefore, the representative mentioned that “A strategy created by compromise among the members usually fails, because the competitors have same idea.” in the final evaluation.



Image 2



Image 3



Image 4



Image 5



Image 6



Image 7