



SILVER MEDAL

from Non-Biodegradable Styrofoam Waste Project

Studying ecology is the first step to eradicate the ecological problems and to protect the world's environment. It is necessary for everybody to learn about ecology and respect it from the day of birth till death.

This ecology project really interested **Adrienne T. Sulistyo (was XII.A1) & Vici R. Tedja (was XII. A2)** These girls decided to do a research on a non-biodegradable Styrofoam waste, which seems to appear in every known aspect of daily life. After doing well-coordinated research with full support from teachers, these girls won a silver medal in the 2nd International Environmental Project Olympiad INEPO Euroasia, 1-6 April 2008 in Baku, Azerbaijan.

Choosing the title "Treating Styrofoam Waste," Adrienne and Vici wanted to reduce Styrofoam waste by dissolving it in the crude extract of orange peel, which contains *d-limonene*, the component of the oil extracted from orange peel. They also tried to reduce Styrofoam waste by converting it into a *polymeric flocculent* called *Sodium Polystyrene Sulphonate (PSSNa)* that is obtained in the *sulfonation* process. In the graphic presentation of these girls' project, Yohanes Paulus Krisna & **Kenneth Darmawan** made the girls' work look spectacular visually, as they created a VCD, posted, and booklet to accompany they girls' project on reducing Styrofoam waste. Congratulations for the team! [Ms. Irene]



(Santa Larentia School's Newsletter)