

Promotion of STEM to secondary and primary school students at the 24th Eco-Model Tournament

By Miss LAU Tsz Ying and Mr CHENG Wing Hei

The captioned Tournament was organised by the Green Council and technically supported by the YMC on 12 January 2025. The Tournament was designed primarily to raise primary and secondary students' awareness of environmental protection and promote clean recycling and low-carbon living.

Participating school teams were tasked with building eco-model vehicles from recyclable materials listed on the community recycling network "GREEN@COMMUNITY 綠在區區". Assessment of the teams was based on their creativity and the vehicles' functionality. Awards were given to the vehicle that crossed the finish line with the highest load-bearing ratio, and the vehicle built with the most creative design and environmentally friendly materials.

The YMC continued to contribute to this year's Tournament by serving as the technical support organisation. Our young engineers were involved in arranging the Tournament by laying down the design specifications of the model vehicles and formulating rules and a fair mechanism for scoring.

To meet the event's aims and stimulate creativity, the students were encouraged to create their vehicles' components with recyclable materials. In preparation for the Tournament, we conducted a site visit to streamline the event rundown and venue arrangements.

Engineering workshops were also offered to all participants, and we introduced STEM elements into the contest to encourage interest in these disciplines even while model cars were being built. These included the concept of energy conversion, the fundamental principles of mechanics, the consideration of weight distribution and weight transfer.

On the day of the Tournament, our young members served as event scrutineers and judges to ensure that all participating vehicles complied with the technical specifications, and that the event was conducted in accordance with the rules and regulations.

We were impressed by the high level of design creativity demonstrated by most of the school teams. The performances of the vehicles at the contest were also outstanding. To help nurture our talented successors, the YMC will continue to promote engineering in upcoming event.



The YMC representatives and helpers, with eco-model vehicles from participating teams