

HKIE Electrical Division 2017 Electrical Model Design Competition

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The Electrical Division of the Hong Kong Institution of Engineers has organized a competition called the “2017 Electrical Model Design Contest” on 7th May 2017. This was the sixth year that the Electrical Division has organized the same event. The theme of this year event was solar-power model car with its aims to promote energy awareness and understanding on renewable energy among lower form (i.e. F.1 to F.3) secondary school students. This event was co-organized with the Education Bureau and the Hong Kong Polytechnic University with the generous support from the HK Electric and the CLP Group. In addition, this event is also included as one of the Business-School Partnership Programme (BSPP) Activities under the Education Bureau.

To ensure creativity and fair competition among participating teams, no constraints on the design of model car or selection of materials were imposed except the size of the finished model should not be greater than 600mm in all dimensions. Each participating team was free to design and procure all necessary components such as solar panel, capacitor and motor etc. to construct their model car. The expenditure limit was set to HK\$1,000 to stimulate students’ creativity and application of engineering knowledge to create the best possible car within the cost constraint. As a token of our appreciation, all expenditures incurred will be reimbursed to each team.

This year we had a total of 26 secondary schools participated in the competition on 7th May 2017 (Sunday) at the Hong Kong Polytechnic University. A judging panel consisting of Ir Dr. Edward Lo, Associate Professor of Electrical Department of the Hong Kong Polytechnic University, Ms Cynthia Woo, representative from the Education Bureau, Ir Calvin Chan, Manager (Regulation & Compliance) of The Hongkong Electric Co., Ltd. and Ir C F Chan, Chairman of Electrical Division was formed. The team with the best energy output, creativity, workmanship, presentation skill and team-work will become the winners.

After two rounds of exciting competition, CNEC Christian College won the champion whereas Workers’ Children Secondary School won the first runner-up and Tin Shui Wai Government Secondary School won the second runner-up. In addition, three schools won the Merit Awards and they were NLSI Peace Evangelical Secondary School, Fukien Secondary School and TWGHs Mrs Fung Wong Fung Ting College. Apart from the above awards, five other awards were presented to those schools with outstanding performance and the selections were based on the number of votes received from the organising committee and the participating schools. The CNEC Christian College also won the “Best Workmanship” Award, Hong Kong Red Cross Margaret Trench School won the “My Favourite Electrical Model” and the “Best Team Work” Award, Stewards Pooi Kei College won the “Best Presentation” Award and SKH Bishop Baker Secondary School won the “Best Creativity” Award.

Same as last year, we were so grateful to have one special school joining the competition to demonstrate that there is no boundary to be creative. The judging panel and the organizing committee were not only amazed by the positive attitude of the teams throughout the competition, but also impressed by the creativity and enthusiasm that each participating team had demonstrated. Through this competition, it is believed that the students’ knowledge in renewable energy has been enhanced and their interest in choosing engineering as their life long career has also been further fostered.



The champion as well as “Best Workmanship” Award winner CNEC Christian College and Ir C F Chan (R), Chairman of the Electrical Division



Group photo of the winning teams with the judges



Group photo of all the students, judges and organizing committee members