

HKIE Electrical Division 2018 Electrical Model Design Competition

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The Electrical Division of the Hong Kong Institution of Engineers has organized a competition called the “2018 Electrical Model Design Contest”, which was the seventh 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 Electrical Engineering Department of the Hong Kong Polytechnic University with the generous support from the HK Electric and the CLP Group. This event is also included as one of the Business-School Partnership Programme (BSPP) Activities under the Education Bureau.

This year we had a total of 30 secondary schools participated in the competition on 6th May 2018 (Sunday) at the Hong Kong Polytechnic University. A judging panel consisting of Ir Dr. Edward Lo, Associate Head of Electrical Engineering Department of the Hong Kong Polytechnic University, Ir Steven Ho, Senior Manager (Compliance & Sustainability) of The HongKong Electric Co., Ltd., Ir Tony Yeung, Hon. Secretary of Electrical Division, and Mr Jonathan Mok, representative from the Education Bureau of HKSAR Government was formed.

The team with the best energy output, creativity, workmanship, presentation skill and team-work will become the winners. 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. The contest set-up will be similar to last year, except that a two seconds stop in the middle of the runway is introduced as optional feature for bonus score. To encourage each participating team to share with others their learnings and takeaways when designing and constructing their own electrical model, a “Best Micro-movie Award” is introduced in this year contest. Students can produce a short movie to record the behind-the-scenes of making their models and publish it in YouTube for sharing with their schoolmates, friends, families and public. The movie with the highest number of “Like” will be winner of the award.

After two rounds of exciting competition, Hong Kong Christian Service Pui Oi School won the champion whereas Kowloon Technical School won the first runner-up and Fukien Secondary School won the second runner-up. In addition, three schools won the Merit Awards and they were Pui Shing Catholic Secondary School, NLSI Peace Evangelical Secondary School and Buddhist Sin Tak College. Apart from the above awards, six 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. Hong Kong Christian Service Pui Oi School also won the “My Favourite Electrical Model” and the “Best Team Work” Award, Kowloon Technical School won the “Best Workmanship” Award, Maryknoll Secondary School won the “Best Presentation” Award, HKFEW Wong Cho Bau Secondary School won the “Best Creativity” Award and Pui Shing Catholic Secondary School won the “Best Micro-movie Award.

Same as previous years, we were so grateful to have one special school newly joining the competition to demonstrate that there is no boundary to be creative. Even the theme of this year is the same as last year with new set-up in the middle of the runway, the judging panel and the organizing committee were glad that a few teams were willing to challenge themselves with this new set-up and able to get this bonus score. Through this competition, we believe the students could not only enhance their knowledge in renewable energy through preparing their model cars but also improve their presentation soft skill by producing the micro-movie.



The champion as well as “Best Workmanship” Award winner Hong Kong Christian Service Pui Oi School and Mr Jonathan Mok (L), representative from the Education Bureau of HKSAR Government



Group photo of the winning teams with the judges



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