

Innovative Design

CATEGORY OBJECTIVE

Assess the technical merit and feasibility of an original design. Engineers are at the forefront of technological innovation; this category seeks to recognize the achievements of aspiring engineers in bringing a new product or service to market, or improving a current system by engineering a unique solution.

REGISTRATION CRITERIA

One (1) to four (4) competitors per team.

COMPETITION FACILITIES

- 1 exhibition hall
- 1 table per team
- 1 electrical power supply per team

COMPETITION PERSONNEL

- 3 judges: The judges assess the skills, abilities, and topics of the competitors.
- 1 timekeeper: The timekeeper is responsible for ensuring that the competitors stay within the time allotted. He or she must time the presentations.
- 2-3 volunteers: Volunteers carry out various support tasks.

PROCEDURE

1. Announcement of Constraints

A minimum of 14 days (336 hours) prior to the competition, the space constraints and other logistical constraints must be described to the competitors (maximum display dimensions, maximum display height, use of flammable or dangerous products prohibited, etc.). The competitors also have up to seven days (168 hours) prior to the start of the competition to convey their specific needs to organizers.

2. Public Opening

The exhibitions are open for visiting by the general public. Competitors must staff their displays during public viewing and judging periods.

3. Judging

Judges will visit and grade each display kiosk. Competitors are required to give a 20-minute presentation, followed by a 10-minute question period.

TIMEKEEPING

- The time remaining must be announced at 10 minutes, 5 minutes, and 1 minute before the end of the allotted time.
- A visual countdown must be given during the last 30 seconds of the presentation
- The question period after the presentation to the judges is not included in the 20-minute time allotted for presentation (stopwatch is reset).

TEAM ORDER

- The order of presentations will be disclosed at least 12 hours prior to the first presentation
- The order in which judges visit the kiosks will be determined randomly

PROJECT ELIGIBILITY

- Each team is required to submit a one (1) page abstract that summarizes their design approximately two (2) weeks prior to the competition. The abstract will be reviewed by the OEC Organizing Committee to assess the suitability of the presentation for inclusion in Innovative Design and will be given to the judges for information prior to the start of judging.
- Should the presenting team be a subset of the project team, remaining members of the project team must sign a letter authorizing disclosure of the project in order for it to be eligible in the competition.

ASSESSMENT AND JUDGES

- Part, or all, of the judging panel must be selected based on expertise in the areas studied.
- The panel must comprise of at least three judges.
- Feedback forms, from the judges, shall be provided to each team prior to the closing of the competition.

SUMMARY OF ASSESSMENT SCALE

Project	70%
<i>Design justification</i>	20%
<i>Economic feasibility</i>	15%
<i>Technical feasibility</i>	15%
<i>Innovation</i>	20%
Presentation	30%
<i>Quality of visual aids</i>	15%
<i>Speaker quality</i>	10%
<i>Compliance with time</i>	5%