



## *International Challenge 2018*

### 1. Introduction

Kuala Lumpur Engineering Science Fair (KLESF) is an initiative started with the aim of enhancing interest in science, technology, engineering, and mathematics (STEM) among school students. It was started in 2013 by four organizations:

- Malaysian Industry-Government Group for High Technology (MIGHT)
- ASEAN Academy of Engineering and Technology (AAET)
- Institution of Engineers Malaysia (IEM)
- Universiti Tunku Abdul Rahman (UTAR)



One of the programmes initiated is the annual KLESF: The Fair. The fair was first organised in 2014, the second was in 2015, the third was in 2016 and the fourth was in 2017. The events received overwhelming response in which over the 3-day event, more than 60,000 visitors were received.

### 2. KLESF: The Fair 2018


KLESF: The Fair 2018 will be held from **2 to 4 November 2018**, from **9.00 am to 6.00 pm** at **MINES International Exhibition and Convention Centre (MIECC)**, Jalan Dulang, MINES Wellness City, Seri Kembangan, Selangor. The fair is expected to attract more than 60,000 visitors this year.

One of the important components of the fair is **School STEM Project Exhibition**. Schools from Malaysia and overseas with STEM projects are encouraged to participate as exhibitors by demonstrating their projects to visitors. An international competition, **KLESF International Challenge 2018** will be held for exhibiting school teams.

### 3. KLESF International Challenge 2018

The international competition will be held based on the following:

Items	Details
Category	<ul style="list-style-type: none"> <li>• <b>Primary school</b> (12 years old or below)</li> <li>• <b>Secondary school</b> (13 - 18 years old)</li> </ul>
Project Track	<ul style="list-style-type: none"> <li>• <b>Applied Sciences</b></li> <li>• <b>Physical and Biological Sciences</b></li> </ul>
Assessment criteria	<ul style="list-style-type: none"> <li>• Originality &amp; innovativeness (25%)</li> <li>• Project execution (25%)</li> <li>• Quality &amp; impact (25%)</li> <li>• Project presentation and communication (25%)</li> </ul>
Participation	<ul style="list-style-type: none"> <li>• Team size (1 to 3 student members + 1 project mentor/teacher)</li> <li>• No limit to the number of teams from each school</li> <li>• Participation form is to be filled up by each team</li> <li>• <b>No fees are charged for participation</b></li> <li>• Each team is required to exhibit throughout the 3-day event</li> <li>• Setting up will be done one day before the commencement of event. Details will be provided by the organiser</li> <li>• Each participating team will be provided 1 info table, 3 chairs, 1 electrical point and a 1m x 2.5m shell board. Each team is responsible to bring other necessities for the setting up its booth.</li> </ul> <div data-bbox="609 1207 1258 1711" style="text-align: center;"> </div> <ul style="list-style-type: none"> <li>• Each team is to exhibit its project at the assigned booth throughout the event period regardless assessment progress and status.</li> <li>• Assessment by judges will be carried out during the 3-day event through interview and project presentation at the exhibition booth</li> </ul>

Items	Details
Prizes	<p>For each category, the following prizes will be available for award based on recommendation of the panel of judges.</p> <ul style="list-style-type: none"> <li>• Gold medal (RM 500, certificate)</li> <li>• Silver medal (RM 200, certificate)</li> <li>• Bronze medal (RM 100, certificate)</li> <li>• Merit (Certificate)</li> </ul> 
Deadline for registration	<b>14 September 2018 (Friday)</b>
Contact	<p>KLESF Secretariat – Universiti Tunku Abdul Rahman  Pn. Azura Abdullah (azura@utar.edu.my)  Tel: +603-90860288 Extension: 847  WhatsApp: +011-18889397  Fax: 03 - 9019 3188  Email: info@klesf.net  (Monday – Friday: 9.00 am – 5.00 pm)</p>

\* Subject to changes by the Organiser

Example projects:

Category	Example Titles
Applied Science	Arduino controlled plant watering system
	Statistics study on the impact of travel time and result of students
	Design of floating concrete platform from recycled material
	Mobile app for school alumni social network
	Software algorithm for lab timetable arrangement
Physical and Biological Sciences	Genetic studies on wild grass in school compound
	New catalyst for synthesis of soap
	Study on the use of all natural herbicide for indoor gardening
	Using coconut production waste as biopolymer filter
	Laser light sound visualizer