

社團法人中國工程師學會 函

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附件：活動文宣暨報名表

主旨：新加坡工程師學會舉辦「Energy Innovation Challenge 2016」比賽，邀請我國大專院校學生參加，詳如說明，敬請踴躍報名。

說明：新加坡工程師學會訂於 7 月 23-24 日舉辦國際工程師節，配合該活動爰辦理旨述比賽。該比賽將以氣候變遷及環境永續之主旨，鼓勵大專院校學生設計發明使用替代能源之產品，報名日期至 4 月 22 日止，相關規定請詳附件活動文宣說明。

正本：相關大學院校

副本：教育部、本學會教育委員會

理事長

李建中

國立臺北科技大學



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ENERGY INNOVATION CHALLENGE 2016

Design the Next Sustainable Solution for 21st Century Energy Problems!

The Institution of Engineers, Singapore (IES) will host the **National Engineers Day (NED)** on 23 & 24 July 2016 at the HDB Hub Atrium in Singapore

One of the highlights of NED 2016 is the "International Energy Innovation Challenge" which provides an opportunity for university students to design or invent a product using alternate energy with focus on climate change and environmental sustainability. IES invites you to be a part of this exciting journey with your active participation.

STAND TO WIN

- 1st Prize: **S\$8,000 + Trophy**
- 2nd Prize: **S\$5,000 + Trophy**
- 3rd Prize: **S\$3,000 + Trophy**
- Up to 5 Commendation Prizes: **S\$1,000 each**

REGISTRATION

Register by 22 April 2016

Contact Yue Kok Sun for registration or any enquiry, email: koksun@iesnet.org.sg or call +65 6461 1260

Registration is Free.

HOW TO PARTICIPATE

The Challenge is to design or invent a product to demonstrate the use of alternative sources of energy with focus on climate change and environmental sustainability.

- ✓ Form a team of maximum 5 members
- ✓ Submit a proposal of not more than 800 words on background, project description and prototype proposal by 22 April 2016
- ✓ Shortlisted teams will be informed by 6 May 2016 and will receive S\$500 to develop their prototypes
- ✓ Detailed proposal to be submitted to the organiser by 4 July 2016. Teams are to bring along their prototypes on the day of the competition to present to the judges
- ✓ Judging Criteria:
 - Creativity
 - Technical Feasibility
 - Quality of Deliverables
 - Relevance
 - Cost Effectiveness

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Lead Partner



REGISTRATION FORM
INTERNATIONAL ENERGY INNOVATION CHALLENGE 2016
University Category

Name of University : _____

Professor/Staff-in-Charge: _____

Contact Number : _____ (office) _____ (mobile)

Email Address of Professor/Staff-in-charge: _____

Signature of Professor/Staff-in-charge: _____

Details of the student/s representing the team/school. (Please use a separate form for each team)

	Name	Email	Mobile No.
Student 1			
Student 2			
Student 3			
Student 4			
Student 5			

Title of Project: _____

[Please submit Proposal abstract not more than 800 words in a separate file]

Confidentiality and Intellectual Property Policies

WES honours the confidentiality of all teams' inventions and ideas that are submitted. Any materials submitted will not be copied or used for any purposes other than in this competition.

However, the organiser reserves the right to reproduce, display and distribute information and/or photographs for publication regarding the project team or project idea, on website, and/or display in any media without obtaining further prior permission. Hence, all teams shall take necessary steps to obtain the respective patents or other forms of Intellectual Property protection, if they wish, and at their own cost. All teams shall sign a disclaimer in the registration form that they are fully aware of the above.

Please email all queries and the completed form to NED@iesnet.org.sg by 22 April 2016.

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International Energy Innovation Challenge 2016 – University Category

The Institution of Engineers Singapore is proud to announce and invite your University to participate in the International Energy Innovation Challenge 2016. The Energy Innovation Challenge Competition is organised by the Institution of Engineers Singapore (IES), our lead partners for this event are Science Centre Singapore (SCS) and Singapore University of Technology and Design (SUTD) to engage students in a learning journey to find out more about science and technology, to discover the spirit of innovation and to build self-confidence and collaborative skills.

The Energy Innovation Challenge

The challenge provides an opportunity for Innovation for students to design or invent a product to solve and demonstrate the use of an alternative source of energy with focus on climate change and environmental sustainability. Projects must also present the scientific principle behind clearly and can also take a further slant to factor in a “green energy” solution in the challenge. Schools can field teams of individual or several students in a team to take part in the challenge. Teams will be measured by the end product, the power of team strategy and collaboration, and the determination of students.

The competition will culminate in a Project Displays, Final Judging and Awards Presentation at the **National Engineers Day 2016 in Singapore from 23 to 24 July 2016**. The competition will take the format of multiple categories and levels as follows:

- **Category 1 : Secondary Schools (teams from Singapore)**
- **Category 2 : Junior Colleges (teams from Singapore)**
- **Category 2 : Institutes of Education and Polytechnics (teams from Singapore)**
- **Category 4 : Universities – International (teams from Singapore and Overseas)**

Why Participate

Throughout their experience, students “win” as they gain maturity, build self-confidence and appreciation of teamwork, and an understanding of professionalism. Students have fun while building a network of friends and professional mentors who continue to enrich their lives. The experience aim to gain positivity in:

- Improvement in student attitudes about science, math, teamwork and the working world
- Students’ attitudes about teamwork to be significantly more positive after than before participating in the competition season

Submission of Initial Project Proposal

Schools are invited to submit initial project proposal by **22 April 2016**. The proposal must include the following:

- Background
- Project Description
- Prototype proposal
- Cost-benefits analysis

Submissions of abstract are accepted in the form of a PDF proposal not exceeding 800 words. Supplementary materials such as a video (smaller than 4MB, not longer than 5 minutes) or a PowerPoint deck (not exceeding 15 slides), are accepted as Appendices accompanying the proposal submission. Total file size for each submission (including Proposal and any Appendices) must be less than 5MB.

Entries submitted must be teams' own project work or invention; any form of plagiarism will be rejected. By entering the Competition, entrant acknowledges and warrants that the submitted entry is an original work solely by the entrant, that the entry does not infringe on the copyrights, trademarks, moral rights, rights of privacy / publicity or intellectual property rights of any person or entity, and that no other party has any right, title, claim or interest in the entry.

Please use enclosed Registration Form. The Project Proposal should be submitted in a separate file.

Judging Format

The first round of judging will be done after 22 April 2016. **Shortlisted teams will be notified by 6 May 2016 and will receive a SGD\$500 fund to develop their ideas into a prototype. Detail proposal submission must reach the organiser by 4 July 2016. Shortlisted teams must seek their own funding to be present for the final round of competition in Singapore.**

Final Judging Format will take the form of an engineering cum business pitch whereby shortlisted teams are given 90 seconds on stage to present their solutions while the clock tick away. They will also face Question and Answers session by the judges. Scoring will be done onsite. The finals can also be considered for editing into a show to be hosted online. In subsequent years' competition, the final judging can take on a show itself when the entries increases and audiences and send in their comments live online. To make the competition more compelling and relevant, viewers online can vote and the voting can form a percentage of total judging. All these will be done live.

Prizes (All short listed participants will be given Certificate of Participation)

1 st Prize	SGD 8,000 cash + Trophy
2 nd Prize	SGD 5,000 cash + Trophy
3 rd Prize	SGD 3,000 cash + Trophy
Up to 5 Commendation Prizes	SGD 1,000 cash

If you have any questions regards to this competition, please contact our secretariat, Yue Kok Sun email: koksun@iesnet.org.sg or our event email: ned@iesnet.org.sg.

Rules and Regulations

1. Acceptable Inventions

- Submissions in the form of prototypes, mock-ups, PowerPoint decks and posters are accepted.
- Entries submitted must be teams' own project work or invention; any form of plagiarism will be rejected. By entering the Competition, entrant acknowledges and warrants that the submitted entry is an original work solely by the entrant, that the entry does not infringe on the copyrights, trademarks, moral rights, rights of privacy / publicity or intellectual property rights of any person or entity, and that no other party has any right, title, claim or interest in the entry. This declaration can be found in the registration form.
- Entries that do not fulfill the above criteria will be deemed ineligible and will be disqualified.

2. Team Requirements

- The International Energy Innovation Challenge 2016 – University Category is open to all students currently studying in Universities (undergraduates only).
- Shortlisted teams from Overseas Universities must seek their own funding to be present for the final round of competition in Singapore.
- Each team must submit a professor/staff advisor contact on the registration form.
- Teams are allowed to submit more than one project, but are required to submit a Registration Form for each project.

3. Judges

- Judges are made up from the industry, academia and government organizations in Singapore and/or Overseas.
- The decisions of the judges are final and binding. No questions regarding the judges' decisions will be entertained.
- No team may under any circumstances attempt to contact a judge regarding this competition during or before the competition. Any such behaviour will result in the disqualification of the team.
- Teams who have any questions regarding potential conflicts of interest for any judges at any stage of the competition should address them immediately to NED@iesnet.org.sg.

4. Liability

- The Organisers will exercise care in handling the entries submitted. However, they will not be liable for any loss of entries or any unauthorized use of the entries displayed during the competition.
- The entrant accepts all risks of personal injury or property damage of any nature whatsoever that may arise from his / her making or creation of the entry or participation in this competition and will not in any way hold the organizer responsible for any liability, loss, damage, expense and cost which he/she may sustain or incur as a result of his / her participation, except for liability which cannot be excluded by law.

- The entrant hereby agrees to be fully liable to the organizer and its officer, employees and agents for any violation of confidentiality, patent, copyright or any other intellectual property rights in the entries submitted.

5. Organiser's Rights

- The Organisers reserves the right to disqualify and withhold prizes for entrants violating any of these rules and regulations.
- If for any reason the Competition is not capable of running as planned, due to causes beyond the control of Organisers that affect the administration, security, fairness and proper conduct of this Competition, the Organisers reserves the right, as its sole discretion, to modify and cancel the Competition. In the event the Competition is cancelled, Organisers will not retain any rights in the submitted entries.

DECLARATION

We have read the Competition Rules & Regulations and acknowledge the following terms:

- ☐ Entries submitted must be team's own project work or invention; any form of plagiarism will be rejected. By entering the Competition, entrant acknowledges and warrants that the submitted entry is an original work solely by the entrant, that the entry does not infringe on the copyrights, trademarks, moral rights, rights of privacy / publicity or intellectual property rights of any person or entity, and that no other party has any right, title, claim or interest in the entry.
- ☐ Participants are aware that IES honours the confidentiality of all teams' inventions and ideas that are submitted. Any materials submitted will not be copied or used for any purposes other than in this competition. However, the organiser reserves the right to reproduce, display and distribute information and/or photographs for publication regarding the project team or project idea, on website, and/or display in any media without obtaining further prior permission. Hence, all teams shall take necessary steps to obtain the respective patents or other forms of Intellectual Property protection prior to this date, if they wish, and at their own cost.

Professor/Staff-in-charge Name and Signature: _____

Date: _____

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