

Engineering Invention and Innovation Expo 2012

YOUNG ENGINEERS SECTION

OUR YOUNG ENGINEERS HAVE DONE IT AGAIN!

The first Engineering Invention and Innovation Expo (EINIX) was successfully held on 15 and 16 September 2012. EINIX was organised by the Young Engineer Section (YES). The Institution of Engineers, Malaysia (IEM), in conjunction with Engineering Week 2012 which was held at one of the world's largest shopping malls, the 1Utama Shopping Centre!

The Expo was conducted as a competition, bearing the theme of "Engineering Innovation for Sustainable Living" where 18 teams were selected out of the 39 submissions to showcase their great inventions to the public. The teams were from UCSI, Universiti Teknologi MARA (UiTM), Universiti Kebangsaan Malaysia (UKM), Universiti Malaya (UM), Universiti Tenaga Nasional (UNITEN), Universiti Teknikal Malaysia Melaka (UTeM), Universiti Teknologi Malaysia (UTM), Universiti Teknologi PETRONAS (UTP), Kolej Damansara Utama (KDU) and International Islamic University Malaysia (IIUM).

The event started at 10.00 a.m., the same time as the shopping centre opened for business. At 1.00 p.m. sharp, the judging panel, led by Y.Bhg. Dato' Paduka Ir. Hj. Keizrul Abdullah, started their evaluation by visiting each booth and quantifying the inventions of the participants. The panel of judges comprised the following eminent personalities:

Dato' Paduka Ir. Hj. Keizrul bin Abdullah	Past President, IEM
Ir. Choo Kok Beng	Deputy President, IEM
Ir. Elias bin Saidin	Council Member, IEM
Ir. Assoc. Prof. Dr Jimmy Mok Vee Hoong	Council Member, IEM
Ir. Assoc. Prof. Dr Lariyah binti Mohd Sidek	Representative from TNB (EINIX Partner)
Ir. Leong Siew Meng	Representative from MGBC (EINIX Supporting Body)
Dr Kok Swee Leong	Chairman, IET YPS (EINIX Supporting Body)
Engr. Issac Lim	Representative IMechE YPS (EINIX Supporting Body)

The event was officiated by Y.Bhg. Dato' CK Teo, Director of Bandar Utama City Corporation, at 2.00 p.m., accompanied by IEM Deputy President, Ir. Choo Kok Beng. The Committee expressed its thanks to Dato' for his generosity in sponsoring the event venue at 1Utama Shopping Centre.

The judging continued while the event proceeded with an hour long talk, entitled "Renewable Energy Initiatives in UNITEN" by Dr Adlansyah bin Abd. Rahman, followed by Assoc. Prof. Ir. Dr Lariyah binti Mohd Sidek's presentation



by Ir. Lee Cheng Payard
Engr. Vivekasugha Alif Gunaan

entitled, "Green Technology for Sustainable Living". The knowledge-sharing by both speakers was definitely very beneficial to the participants and also to members of the public.

The shoppers crowded the exhibition area throughout the day as this was the first time that a competition by a professional body was held in a shopping mall such as the 1Utama Shopping Centre.

The exhibition resumed the next morning at 10.00 a.m., followed by the launch of "Engineering Clubs at Schools" at 2.00 p.m. We were pleased to have SMK Teknik Kuala Lumpur as the first school that had participated in the engineering club initiative. Credit should be given to the efforts by members of IEM-UTP Student Section who were willing to take up the challenge to organise the engineering club event and facilitate the setting up of the club. During the launch, Ir. Choo Kok Beng, Deputy President of IEM, emphasized that it was important to cultivate the engineering interest amongst students in order to promote and produce more engineers in the future for the continued improvement and development of the country. It was a memorable moment for all those who were involved in IEM Engineering Week as well as EINIX. The Engineering Week Closing Ceremony and EINIX Award Ceremony held at 6.00 p.m. concluded this successful event.

RESULTS OF EINIX 2012:

Prize	Title	University
Champion	Vermi Battery	UTP
1st Runner Up	Smart Motorcycle Safety Vest (SM S-V)	UTeM
2nd Runner Up	Smart Pico Hydro Generation System (Spico)	UTeM
Consolation	Newly Nanolubrication System in CNC Machining Processes for Better Product Quality, More Power Savings, and Less Oil Consumption and Pollution	UM
	SEER-IPLAT	UTM
	Design and Development of PV/Nanoparticles-enhanced Phase Change Material for Thermal Energy Storage	UTP
Most Interactive Team	Prototype Marine Wave Powered Beacon for Sea Navigation	UNITEN
Most Attractive Booth	Window Farming	UiTM



The Engineering Week Chairman's closing speech, by Ir. Yau Chau Fong, marked the end of EINI 2012 and also the Engineering Week 2012. A recollection of the one-year planning and implementation effort which had led to the smooth running of the entire week by the organising committee was captured during his speech. Appreciation was given to all the Committee Members, Sponsors, supporting bodies, IEM Council Members, YES committee members, IEM Secretariat as well as those who were involved directly or indirectly during the event.

We would like to thank all our valued sponsors who had made this event possible. IEM looks forward to receiving their continuous support in future.

Platinum Sponsor	Maccafferri (M) Sdn. Bhd.
Gold Sponsors	1. Technip Geoproduction (M) Sdn Bhd 2. Malakoff Corporation Berhad
Silver Sponsors	1. Nehemiah Reinforced Soil Sdn Bhd 2. UEM Builders Berhad 3. Putrajaya Holdings Sdn Bhd
Venue Sponsor	1 Utama Shopping Center
Media Sponsor	Media Asia
EINI Partner	Tenaga Nasional Berhad

The organising committee also wishes to thank all supporting organisations which had enabled us to run the event smoothly.

1	Institution of Mechanical Engineers (IMechE)
2	The Institution of Engineering and Technology (IET)
3	Ministry of Science, Technology and Innovation (MOSTI)
4	Malaysia Green Building Federation (MGBC)
5	Majlis Rekabentuk Malaysia (MRM)
6	Malaysia Invention and Design Society (MINDS)
7	Universiti Tenaga Nasional (UNITEN)
8	Universiti Teknologi Petronas (UTP)
9	Universiti Kebangsaan Malaysia (UKM)
10	INTI International University

For YES, the success of EINI 2012 does not signify the end but the beginning of similar initiatives in the future. YES wishes to encourage more inventions from the young engineers. YES, *let's make it happen again!* ■

Ir. Lee Cheng Pay graduated from University of Malaya with an Electrical Engineering Degree and is currently working as the Senior Electrical Engineer at AD Consultants Sdn. Bhd. He was the Organising Chairman of EINI 2012 and also the Honorary Secretary of the Young Engineer Section, IEM.

Engr. Vivekasugha Alif Gunaalan graduated from Universiti Tenaga Nasional with an honours degree in Bachelor of Electrical Power Engineering, and is currently working as an Electrical Engineer at the Transmission Division, Tenaga Nasional Berhad. He was the Secretary/Treasurer of EINI 2012 and also a Committee Member of the Young Engineers Section, and Electrical Engineering Technical Division, IEM.