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ITE Student Achievers' Award Presentation Ceremony 2012

Outstanding ITE Students Honoured for their Excellence, Perseverance and Technical Innovations

ITE will honour the accomplishments of **332** ITE students, out of which, **45** will receive the prestigious **Lee Kuan Yew Model Student/Trainee Award**, the **Lee Kuan Yew Co-curricular (CCA) Award**, and the **Lee Kuan Yew Technology Award**.

2 Another 272 outstanding ITE students, who have performed exceptionally well in music and the arts, sports and co-curricular activities, will receive the ITE Arts Excellence Award, ITE Sports Excellence Award and the ITE CCA Medal, while 15 students who have distinguished themselves nationally and internationally in projects and competitions will receive the ITE Commendation Award. (Brief on the Awards; profiles of the Lee Kuan Yew Model Student Award and Lee Kuan Yew CCA Award recipients; and write-ups on the Lee Kuan Yew Technology Award winning projects are at **Annexes A, B and C** respectively).

3 These ITE achievers have inspiring stories about overcoming the odds and through sheer determination, achieve beyond expectations and labels. ITE is proud to celebrate their achievements of these students at the **ITE Student Achievers' Award Presentation Ceremony 2012** on **Tuesday 17 July 2012, 10 am**.

Dyslexic ITE Student to Receive Lee Kuan Yew Model Student Award

4 What appears to be a simple sentence can seem like gibberish to 20-year-old **Fong Shao Heng, Aldric**. Diagnosed with dyslexia – a developmental reading disorder – when he was eight, Aldric would need more time to figure out what was on his school text. But that did not deter him from pushing himself to excel in his studies. Neither was being placed in the EM3 stream, and Normal (Technical) Stream. Instead, these served as further motivation in his quest for excellence. “Many people, even my peers, think that if you are from the Normal (Technical) stream, you won’t do well. I wanted to prove them wrong; that as long as you work hard, you can be successful.” And prove them wrong he did. Fong Shao Heng Aldric, a *Nitec* in Electronics student, will be receiving the **Lee Kuan Yew Model Student Award** at the Ceremony.

Singapore Youth Olympic Games Torch Bearer and National Hockey Player to Receive Lee Kuan Yew CCA Award

5 For 19-year-old Silas Abdul Razak Bin Noor Shah, every achievement in his life has come through sheer grit and hard work. The determined young man was the Vice Captain of the Singapore National Youth Hockey Team in 2009 and 2010. In 2010, he was **one of just two Singaporean torch bearers at the Youth Olympic Games torch-lighting ceremony in Ancient Olympia, Greece**. Today, he is in the National Men’s Hockey team, playing for the Hockey qualifying games for the 2012 Olympic Games. Silas has competed in numerous other competitions including the Razak Cup 2010, Junior World Cup 2009 and Under-18 Asia Cup 2011. In 2009, Silas was awarded the National Colours Awards, as well as the School Colours Awards. He attained all this whilst struggling to support himself financially; juggling a part-time job, making time for aggressive CCA training and attending remedial lessons to make up for lessons missed. Silas Abdul Razak bin Noor Shah will be receiving the **Lee Kuan Yew CCA Award**.

Engineering for a Better Life for the Elderly

6 For the elderly, diminishing strength and aches often prevent them from getting about independently. That’s why four ITE College Central students – Pae Sheng Tong and Khoo Jian Hui, Kenneth from Mechanical Engineering, and Liew Wei Seng and Joey Leow Wei Hong from Engineering Design – teamed up to use their knowledge and skills acquired from ITE to engineer a solution that gives the elderly greater mobility and freedom. The final product – the EZ Walking Frame – was created after four months of work. Costing a mere

\$100 to produce, the EZ Walking Frame has wheels fixed to its four legs so users would not need to lift the frame while walking. To help users get up from a sitting position independently, two L-shaped handles have been attached to the frame. The team will be receiving the **Lee Kuan Yew Technology Award** at the Ceremony.

Invitation to Media

7 Members of the media are cordially invited to join in the celebration and cover the ITE Student Achievers' Awards Presentation Ceremony 2012. The Ceremony will be held on **Tuesday 17 July 2012** at **10 am** at **ITE Headquarters, 10 Dover Drive, Singapore 138683**. The Ceremony Programme and Location Map of ITE Headquarters are at **Annex D**.

8 For confirmation on attendance and arrangement for interviews and photography, please contact:

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About ITE

The **Institute of Technical Education (ITE)**, Singapore, was established as a post-secondary education institution in 1992 under the Ministry of Education. ITE is a principal provider of career and technical education and key developer of national occupational skills certification and standards to enhance Singapore's workforce competitiveness. Under its "**One ITE System, Three Colleges**" Model of Education and Governance, ITE has three Colleges, comprising **ITE College Central, ITE College East** and **ITE College West**.

BRIEF ON AWARDS

Lee Kuan Yew Model Student/Trainee Award

The Lee Kuan Yew Model Student/Trainee Award is presented to students and trainees who have performed consistently well in their courses and have displayed outstanding conduct and attitude worthy of emulation by their peers. The Award serves to inspire students and trainees to display exemplary behaviour in training, develop high moral values and show care and concern for others.

Lee Kuan Yew CCA Award

The Lee Kuan Yew CCA Award is presented to students who have demonstrated outstanding leadership and organisational skills, and have contributed significantly to the improvement and enhancement of campus life. The Award also serves to give recognition to students who have contributed and achieved excellence in sports, games and the arts.

Lee Kuan Yew Technology Award

The Lee Kuan Yew Technology Award is presented to students who have developed excellent projects that embody quality, technical innovation and creativity. The projects are also expected to have industrial applications. The Award serves to inspire students to develop a zeal for challenges, creativity and competition.

ITE Arts Excellence Award

The ITE Arts Excellence Award is awarded to new students and on-going students who have displayed outstanding performance in music and the performing arts. Those receiving the Award have performed in an event organised at the Singapore Schools, Singapore Youth or National level. With the skills they have acquired and the achievements they have made, they are expected to develop and raise the standard of music and arts in their respective Colleges.

ITE Sports Excellence Award

The ITE Sports Excellence Award is awarded to new students and on-going students who have displayed outstanding performance in sports and games. Those receiving the Award have represented Singapore Schools or Singapore in the National Team in a sports or game. With the skills they have acquired and the achievements they have made, they are expected to develop and raise the standard of sports and games in their respective Colleges.

ITE CCA Medal

The ITE CCA Medal is awarded to outstanding students who have displayed a high level of involvement in their chosen co-curricular activities (CCA). Students who are receiving the ITE CCA Medal have excelled in the field of music and arts, sports and games, contributed significantly in CCA or demonstrated qualities of leadership and organisational ability in major College events.

ITE Student Commendation Award

The ITE Student Commendation Award is awarded to ITE students who have participated in competitions at the national and international level and won commendations or awards for their outstanding achievements.

**PROFILE OF RECIPIENTS OF LEE KUAN YEW MODEL STUDENT
/TRAINEE AWARD 2012**

Name : Chan Koon Yue Ivan
Age : 23
Course : *Higher Nitec* in Business Administration
College : ITE College Central

Name : Chan Yaoqiang Aaron Alexis
Age : 23
Course : *Nitec* in Electronics (Wireless LAN)
College : ITE College East

Name : Kenneth Cheng Zemin
Age : 19
Course : *Nitec* in Aerospace Avionics
College : ITE College Central

Name : Brandon Chia Zheng Da
Age : 19
Course : *Nitec* in Nursing
College : ITE College East

Name : Fong Shao Heng, Aldric
Age : 20
Course : *Nitec* in Electronics
College : ITE College West

Name : Yvonne Goh Ai Qin
Age : 19
Course : *Nitec* in Electronics (Instrumentation)
College : ITE College Central (Macpherson Campus)

Name : Muhammad Shiddiq Bin Abdul Rasid (Trainee Award)
Age : 24
Course : *Nitec* in Automotive Technology (Heavy Vehicles)

Name : Nguan Jia Hui
Age : 20
Course : *Higher Nitec* in Mechatronics Engineering
College : ITE College West

Name : Thong Carin
Age : 19
Course : *Nitec* in Visual Communication
College : ITE College Central (Tampines Campus)

**PROFILE OF RECIPIENTS OF LEE KUAN YEW CO-CURRICULAR
ACTIVITIES AWARD 2012**

Name : Silas Abdul Razak Bin Noor Shah
Age : 19
Course : *Nitec* in Chemical Process Technology
College : ITE College East

Name : Diaz Shirannie Barquilla
Age : 20
Course : *Higher Nitec* in Electronics Engineering
College : ITE College West

Name : Tan Li Ling
Age : 20
Course : *Higher Nitec* in Business Administration
College : ITE College Central

**LEE KUAN YEW TECHNOLOGY AWARD 2012
WINNING PROJECTS**

Project Title : CITiMAT
Campus : ITE College West
Members : Ang Boon Huat
Lau Jun Qi

The CITiMAT is a device developed to help automate the patient rehabilitation process. A voice-guided do-it-yourself rehabilitation programme eliminates the need for one-to-one attention, enabling therapists to handle several patients at a time. This not only increases efficiency, but also helps reduce therapy costs. As such, more patients would be able to attend therapy. The portable CITiMAT can also provide real-time feedback via an LCD screen or through an audio recording, as well as encourage patients and capture data electronically in an SD card. This allows patients to go through therapy in the comfort of their homes, thereby cutting down on the frequency of visits to rehabilitation centres – a win-win solution for patients, their families and therapists. While testing out CITiMAT, St Luke's Hospital was able to save costs and man-hours. Further improvements are currently being made. In time, CITiMAT will, without a doubt, be a boon to rehabilitation centres island-wide.

Project Title : Multi-Purpose EZ Walking Frame
Campus : ITE College Central
Members : Pae Sheng Tong
Khoo Jian Hui, Kenneth
Joey Leow Wei Hong
Liew Wei Seng

For the elderly, diminishing strength and aches often prevent many from getting about independently. The Multi-Purpose EZ Walking Frame has wheels fixed to its four legs, so users would not need to lift the frame while walking. Auto-braking function for the two front wheels prevents users from falling as well. To help users get up from a sitting position independently, two L-shaped handles have been attached to the frame. To stand, the user can simply swing the handles backwards and use them as support. A foldable seat has also been integrated into the design so that users can take a rest any time they want. Another thoughtful feature is the hook-and-retractable tray which users can utilise to carry small items, instead of fumbling with both the walking frame and items. Though simple in design, this EZ Walking Frame proves that you do not need fancy gadgets to give the elderly the satisfaction and joy of getting around independently.

Project Title : Home Safety Guardian

Campus : ITE College West

Members : Mok Zilong, Steward
Ng Kim Teck
Chua Yulong
Mohamed Khairul

This group of students developed a device called the Home Safety Guardian that can safeguard houses with just a click. The device can monitor the status of electrical appliances, smoke alarms, gas alarms, windows and refrigerators via SMS or Internet applications. It can even allow the user to control electrical appliances or switches remotely! Imagine being able to switch on the water heater on your way back home so you will have a warm, relaxing bath immediately after a day's work. If danger is detected in the house, an SMS alert will be sent to the user. It is that simple and a stroke of genius!

Project Title : Ezi- Assist

Campus : ITE College West

Members : Tobias Tan Yan Cong
Carmen Foong
Cai Peixin

For many a housekeeping associate, changing duvet covers often proves to be a test of physical prowess akin to a wrestling match. This is especially so for those working in top-notch hotels, where duvets and their covers are very large and used to accommodate king-sized beds. Made from durable lightweight aluminum, the Ezi-Assist promises to revolutionise the method of fitting duvets into their covers. All the user has to do is to clamp the device to the edge of the bed together with the cover (with only the edges of the duvet fitted into the corners) and pull the cover from below to ensure a perfectly smooth fit for the otherwise hard-to-reach sides. The team is also looking to improve on their design by making its height adjustable and enabling it to be compacted into a portable hand-carry model. They also plan to introduce the device to the training hotel at ITE College West to improve the training process for new students and eventually market it commercially to hotels.

Project Title : Chemical Free Pure Water System

Campus : ITE College East

Members : Moses Franche Viray Prado
Eugenia Tan Pui Wen
Brandon Nicholas Ong Kim Chuan
Eileen Ng Kai Lin
Lian Wan Yi

The increasing need for freshwater resources as a result of rising demand, caused by increased use and growing pollution, is of serious concern. To tackle the problem the team designed and developed an apparatus that uses a specially formulated catalyst for purifying and cleaning water to generate hydroxyl ions by simply applying low energy to aid the conversion process. In other words, you neither have to boil the water nor add chemicals to disinfect it. The prototype produces purified and disinfected water in an easy and convenient way using very low energy that is equivalent to drawing power from readily available battery cells! Its hassle-free and portable design makes it ideal for outdoor use and activities like camping. The team is confident that this project has far more potential than simple water conversion.

Project Title : Lift and Walk Assistive Equipment

Campus : ITE College Central

Members : Ng Tee Zhin Joshua
Lua Soon Huat
Phan Chong An

A prevalent problem in most local nursing homes and hospitals is the high patients-to-caregiver ratio and its consequential strain on the healthcare staff. During a trip to St Luke's Eldercare Centre, this team of boys realised that the Centre's main concern was its inability to conduct walking exercises to help elderly patients strengthen their legs and regain mobility in the very crucial early stages of recovery because of the lack of manpower. There was no suitable walker commercially available for this purpose too. So the team decided to fabricate a walker that met patients' safety needs and also reduced the manpower required to assist the patient during the exercise. They designed a lift and walk-assistive equipment, which is basically a combination of a lift and walker equipment. The equipment comes equipped with emergency braking to give the therapist a free hand to serve the patient and a safety harness to secure patients. It also has a foldable seat for tired patients to take a quick rest. The first of its kind in the healthcare industry, the team hopes to commercialise their invention, so that more of such nursing centres and hospitals can reap its benefit.

Project Title : Patient Flipping Gadget

Campus : ITE College East

Members : Lim Jian Ping
Lee Hong Wei
Seah Zhen Cong
Christopher Lai Jun Yang
Sean Lim Kai Yang

During a trip to a hospital, the team observed that it took quite some effort for nurses to turn a patient sideways when changing the patient's bed sheet. That sparked the idea to develop a gadget that makes turning a patient effortless. The Patient Flipping Gadget can be operated by just one person and enables a patient to be turned about 45 degrees without the risk of having the patient falling back to the original position. The gadget is portable and versatile, and can be used with any type of hospital bed. Currently, hospitals and nursing homes in Singapore do not have such a gadget. Some hospitals use adjustable beds to move disabled patients, but the price of such beds certainly cannot be compared to the Patient Flipping Gadget which costs a fraction of that price. Other than the low production cost, the gadget is easy to operate and, most importantly, helps to reduce manpower needs.

Project Title : Sensory Fibers

Campus : ITE College Central

Members : Nicholas Gary Goh
Nicholas Leo Francis
Ng Mui Xian

The project aims to minimise or eliminate towing-related incidents and accidents from occurring. The device utilises ultrasound to detect and warn the aircraft tower by vibration and sound when the aircraft being towed is in close proximity of any object. The device is wireless, hence it can be easily placed on an aircraft of any size. It is convenient that ITE has its own private jet for such training purposes. The project lasted almost 10 months with multiple revisions that included discovering the need to waterproof the transmitter case and reducing the receiver for the tower to the size of an iPhone, almost 2.5 times smaller than the original prototype.

Project Title : I-Google System

Campus : ITE College Central

Members : Julian Tan De Cai
Nicholas Chan
Sathya s/o Manicampedas
Muhammad Danial Bin Abdul

The I-Goggle was the result of students' efforts in thinking out-of-the-box to reduce human error through technology. Conceived and built over four months with only a budget of \$150, the I-Goggle is a pair of safety goggles that can do video-recording at the same time. This is especially useful for aerospace technicians who can use the I-Goggle for video-logging during maintenance work. While certain intricacies may be missed by the human eye, the recorded footage allows for playback by supervisors or to aid investigations should the unthinkable happen. Although there is video-recording wearable gear in the commercial market for those pursuing adventure sports, it is believed that the I-Goggle is the only product at the moment that could record footage wirelessly, enabling supervisors to view and access the process of maintenance in real time.

**ITE STUDENT ACHIEVERS' AWARD PRESENTATION CEREMONY
2012 PROGRAMME**

9:45 am	Guests to be seated
10:00 am	Arrival of Mr Bruce Poh Director & Chief Executive Officer Institute of Technical Education
	Singing of the ITE Song
	Address by Mr Bruce Poh
	Visual Presentation – Achievements of ITE Sports Council and \ ITE Arts Council in 2011
	Presentation of ITE Student Awards
	Presentation of MINDEF Physical Fitness Performance Awards
	Presentation of ITE Student Commendation Awards
	Presentation of Lee Kuan Yew Awards
	Entertainment
12:00 pm	Reception