

WHAT'S HAPPENING around our little big campus

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Undergraduates Make Their Mark at Competitions

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Inside The SiTuation Room

Alumni Assemble for Movie Night... and Etiquette & Networking Workshop

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Dear SiT Alumni,

Innovations Leading the Way

At recent competitions, SiTizens have been making their mark with their creativity – and scooping up prizes in the process. Among them is Mechanical Design Engineering undergraduate, Mr Hilsann Yong, who bagged two awards for his design that transforms a Personal Mobility Device into a shopping trolley in three steps. He was inspired after seeing his elderly mother struggle with transporting groceries.

In the spirit of innovation, a new programme was pioneered between October 2018 – May 2019 at SiT. The Mapletree Challenge is a unique learning initiative that not only inculcates job interview and presentation skills in SiT students, but also encourages them to come up with innovations on the theme of sustainability. In this issue, we round up the events leading up to The Mapletree Challenge Grand Final, where six teams presented their sustainable innovation ideas to compete for attractive prizes on 2 May 2019. Team Trolley, made up of first-year Nursing students, took home the Mapletree Gold for their take on a laundry trolley in a nursing home. *(Details on their innovative idea can be found in this issue's IMAGINE!)*

SiT also recently launched the Innovation Development Programme. The programme will allow SiT to work with even more organisations to develop sustainable solutions through a guided innovation process. The National Library Board is one of the first to take up this new programme thanks to a recent Memorandum of Understanding with SiT, which will allow NLB and SiT to co-create digital services and solutions for the future Punggol Regional Library.

Other exciting stories include how SiT's community of donors and friends are showing their support in more ways than one. Alumni and students from the Infocomm Technology cluster had the opportunity to network with and be mentored by ICT industry leaders (made up of SiT's donors and friends) during the first run of The SiTuation Room. The networking and panel discussion was followed by a series of small-group mentoring sessions. The next run of The SiTuation Room will be for the Engineering cluster in August.



The winning team of The Mapletree Challenge, together with Prof Tan Thiam Soon, President, SiT (fifth from right), Guest of Honour Dr Amy Khor, Senior Minister of State, Ministry of Environment and Water Resources & Ministry of Health (eighth from right), judges, representatives from Mapletree, as well as SiT faculty.

Enjoy reading this issue of SiTizen. Should you wish to contribute a story, do drop us a line at Alumni@SingaporeTech.edu.sg.



New Innovation Development Programme at SIT

IDP will help organisations improve processes and solutions while tapping into SIT's pool of resources; NLB is among the first to come on board with new Memorandum of Understanding

The Singapore Institute of Technology (SIT) has launched a new Innovation Development Programme (IDP), in collaboration with Design Factory Global Network (DFGN). Funded by SkillsFuture Singapore, the programme will be offered by SIT's Lean Transformation Innovation Centre (LTIC) and will last for six weeks.

The IDP will focus on identifying service gaps in organisations and developing sustainable solutions to improve customer experience through its guided innovation processes. Organisations can also tap into SIT's pool of resources which now includes DFGN, a network of innovation hubs within universities and research organisations.

The National Library Board (NLB) is one of the first organisations to take up the new programme, as part of a Memorandum of Understanding (MoU) signed with SIT. The collaboration will allow NLB to co-create digital services and solutions for implementation at the future five-storey Punggol Regional Library in Punggol Town Hub, as well as other branches nationwide. There will also be opportunities for students to work with NLB as part of their Integrated Work Study Programme (IWSP), as well as for the university to support NLB with relevant continuous learning and customised training opportunities.

Mrs Elaine Ng, Chief Executive Officer, NLB, said, "We are pleased to partner SIT to create innovative library services and design imaginative learning spaces. We appreciate the opportunity to tap on the skills and knowledge of SIT students and faculty to develop solutions for libraries that benefit Singapore's library users."



From left: Assoc Prof Ivan Lee, Vice President (Industry & Community), SIT, Prof Tan Thiam Soon, President, SIT, Mr Ng Cher Pong, Chief Executive, SkillsFuture Singapore and Deputy Secretary (SkillsFuture), Ministry of Education, Mrs Elaine Ng, Chief Executive Officer, National Library Board and Mr William Tan, Assistant Chief Executive, Corporate, National Library Board were present to witness and facilitate the SIT-NLB MoU signing.

Assoc Prof Ivan Lee, Vice President (Industry & Community), SIT said that the new programme will equip local companies with the critical skills needed to address complex inter-disciplinary problems. "We are also excited to work with NLB to explore the use of innovation and technology to support future library digital services and transformation in the Punggol Digital District, where the future SIT@Punggol campus will be located," he added.

The launch of the IDP and the signing of the SIT-NLB MoU took place at the fourth CXO Lean Summit on 24 April 2019 (please see box story).

From Fire-Fighting to Lean Leadership at CXO Lean Summit 2019

On 24 April 2019, the fourth annual CXO Lean Summit was held by SIT's Lean Transformation Innovation Centre (LTIC), in collaboration with SkillsFuture Singapore and The Lean Global Network. The Summit is an annual conference that provides a platform for local companies to convene and discuss successful Lean achievements and best practices in business productivity and process transformation. Mr Ng Cher Pong, Chief Executive, SkillsFuture Singapore, and Deputy Secretary (SkillsFuture), Ministry of Education, was the Guest of Honour at the event. The theme of this year's summit was "Transform Fire-Fighting into Lean Leadership."

Mr John Shook, Executive Chairman of the Lean Global Network, delivered his keynote speech on Organisational Stability, sharing how leaders can build effective strategic plans by achieving stability and predictability at the workplace.

This was followed by a sharing session comprising representatives from companies such as Four Seasons Group, Shalom Movers Pte Ltd, and Particle Measuring Systems, Inc.



Panel of speakers sharing best practices on building lean strategies and capabilities at the 4th annual CXO Lean Summit.

on their Lean transformation experiences and how the five core principles of Lean were applied within their organisations, in order to strive for organisational stability. Asst Prof Jawn Lim, Deputy Director, SIT, and Asst Prof Lim Chun Yee, SIT, also presented their insights and main takeaways from the companies they were attached to on the Lean Skills Development Programme.



These activity-based workshops equip students with lean knowledge, and let them try their hand at applying these concepts.

A Lean Way to Address Industry Problems

Sustainable Infrastructure Engineering (Land) students suggest solutions to real-life challenges for local organisations

During the “Lean and Quick Response Repair” module, students from the Bachelor of Engineering with Honours in Sustainable Infrastructure Engineering (Land) degree programme have the opportunity to solve issues faced by companies and suggest solutions that will reduce waste. Since 2016, 160 students have embarked on 30 lean projects with 16 host companies through the initiative conceived by Assoc Prof Mustafa Shabbir Kurbanhusen, Deputy Programme Director, SIT.

Students spend the first six weeks in the module learning about lean principles and to eliminate the ‘8 wastes’ commonly found in any process and subsequently apply these concepts in activity-based workshops.

In the next six weeks, they work on real industry problems in their host organisations which range from government agencies and healthcare settings to engineering and food manufacturing companies. The students go

on-site to obtain crucial information for the process improvement and also consult weekly with SIT faculty and professional officers to come up with implementable solutions.

Ms Veronica Chng, a student from the Sustainable Infrastructure Engineering (Land) programme who is currently in her final year, worked on improving processes for the Lee Ah Mooi Old Age Home. Together with her classmates, she studied the adult diaper storage and retrieval system, as well as the laundry retrieval and sorting process. The SIT students recommended the use of a gravity flow rack and a diaper dispensing system to improve the work flow. Ms Chng said, “Throughout the course of the project, we achieved key milestones such as increased efficiency in store and inventory management of essential medical consumables.”

Mr Then Kim Yuan, Administrator of the Lee Ah Mooi Old Age Home, said the walkthrough with the students gave them the opportunity to rethink some of the processes. He added that the students’ inputs have helped the home in making some minor changes and streamlining their work. “The changes will ultimately benefit our residents greatly,” he said.

A Better Internet, Just a Click Away

Attendees examine the power behind the simple action of a click in order to create a safer, smarter and kinder Internet for all at the first Better Internet Conference

Organised by the Media Literacy Council and the Singapore Institute of Technology (SIT), the inaugural Better Internet Conference was held on 11 March 2019 at SIT@Dover and graced by Minister for Communications and Information, Mr S Iswaran. The full-day event drew a crowd of nearly 400 attendees, and featured a line-up of local and international speakers which also included SIT faculty.

Attendees gained insights on how parents and educators can better relate with youths online and build stronger relationships. They also learnt about the new challenges that Internet users, especially youths, face today in the Internet landscape, and how they can help their children navigate online space safely.

During his talk, Assoc Prof Steven Wong, Programme Director, SIT, urged the audience to be more vigilant of the potential dangers and cybersecurity risks they subject themselves to when sharing their information on social media platforms. His parting advice to the audience was to not give away the last four digits of one’s NRIC number as there are hacking tools to crack the code using social engineering of one’s digital footprints.

Asst Prof Jiow Hee Jhee, Programme Director, SIT, also shared strategies for parents. He suggested regulating their children’s digital exposure by setting rules and boundaries on usage of digital devices, and diverting them from digital use by engaging in outdoor activities and alternative hobbies.

“It is important for parents to engage the media with their child, to effectively bridge the digital divide between them, and to cultivate safer Internet habits collectively,” said Asst Prof Jiow.



From left: Ms Anita Low-Lim, Senior Director, TOUCH Cyber Wellness, Asst Prof Jiow Hee Jhee, Programme Director, SIT, Assoc Prof Steven Wong, Programme Director, SIT, and Dr Carol Soon, Senior Research Fellow, Institute of Policy Studies, in a panel discussion.

Going Green for Green Mark Challenge

Eco-friendly & sustainable initiatives win first-year students first runner-up spot

On 23 February 2019, SITizens from the Sustainable Infrastructure Engineering (Building Services) degree programme bagged the first runner-up spot in the BCA BiG Club Green Mark Challenge 2019. The Challenge was organised by the Build it Green (BiG) Club, initiated by the Building and Construction Authority (BCA) to promote awareness and knowledge of the green culture in the built environment among youths in Singapore. The team consisting of Mr Justin Seah, Mr Garrett Ong, Mr Harvest Yosua Purwono and Mr Aaron Wong received \$200 shopping vouchers as part of the prize.

Teams had to propose additional innovative green features for Sim Lim Square's future building in Jurong, for it to



From left: SITizens Mr Harvest Yosua Purwono, Mr Aaron Wong, Mr Garrett Ong, and Mr Justin Seah gathered for a picture with one of the judges, Mr Tan Szue Hann, Managing Director, MINIWIZ Singapore (second from right).

achieve Green Mark Gold^{Plus} status and above. Participants could choose to redesign the building and green features to achieve the goals while keeping in mind feasibility of ideas and site features.

Team leader Mr Seah and his teammates came up with initiatives that helped save energy and costs. One of the solutions was to implement an energy management system that emphasises the use of renewable energy. This included the use of regenerative lifts, carbon monoxide sensors and motion sensors, as well as installation of solar panels. The team also looked into improving the water efficiency, environmental protection, and indoor air quality of the building. They suggested ideas such as using NEWater for cooling tower consumption, implementing recycling efforts and ensuring the cleanliness of the building ventilation system.

Mr Seah said, "The competition was tough as we were the only Year One students amidst 15 teams of seniors from other autonomous universities. Thanks to guidance from our mentor, Asst Prof Steve Kardinal Jusuf, we were able to apply what we have learnt in the classroom to this competition."

"One of the judges, Mr Tan Szue Hann from MINIWIZ Singapore, was not only impressed with our students' presentation, but also by their innovative ideas and Building Information Modelling (BIM) model that they did up for the competition in a short period of time," commented Asst Prof Steve Kardinal Jusuf, SIT.

SITizens Make Facilities Management Cool

Sustainable Infrastructure Engineering (Building Services) undergraduates clinch third place at the World Workplace Asia (WWA) 2019 Student Competition

A team of third-year students comprising Mr Leow Jun Kai, Mr Chua Lin Feng, Mr Gabryel Gn and Mr Ryan Thio from the Sustainable Infrastructure Engineering (SIE) (Building Services) degree programme made SIT proud with their proposed integrated Facilities Management (FM) ideas at the World Workplace Asia (WWA) 2019 Student Competition.

Held on 3 to 5 April 2019 during the WWA Conference, the competition is the first FM-themed contest open to all students from institutes of higher learning and BCA Academy. Participants had to identify potential growth areas encompassing technology within the FM industry, and had to propose an integrated FM model for a hypothetical building. Shortlisted teams then prepared a report and video showcasing their proposals and also presented their proposals to a panel of judges from Surbana Jurong, BCA Academy, and KK Women's and Children's Hospital.

Applying what they learnt in their FM module, the team incorporated Building Information Modelling (BIM) and Facilities Management System (FMS) to enhance tenants' satisfaction and improve operational efficiency.

They proposed creating a data depository system for incident reporting and data analytics, using Internet of Things (IoT) for the building's security surveillance, tapping

on machine learning from CCTV to recognise threats, and using facial recognition for access of commercial floors.

The competition was an ideal platform to share their concept of incorporating technology to traditional FM practices. "In this digital era, it is important to integrate technology and streamline processes to make FM more attractive to young professionals, and to do it in a more efficient manner," explained team member Mr Chua. The team clinched third prize and walked away with a plaque and \$500 cash.



From left: Sustainable Infrastructure Engineering (Building Services) students Mr Gabryel Gn, Mr Ryan Thio, Mr Chua Lin Feng, and Mr Leow Jun Kai pose for a picture with Mr Tony Khoo, President, International Facility Management Association Singapore Chapter, and CEO, EM Services (third from left), and Dr John Keung, Dean, BCA Academy of the Built Environment (third from right).



Final-year Mechanical Design Engineering student Mr Hilsann Yong, develops Troll-E, a PMD to aid elderly in their grocery shopping.

Striking Gold with Troll-E

Mechanical Design Engineering student bags two awards with a PMD design that transforms into a shopping trolley in three steps

Final-year student Mr Hilsann Yong made SIT proud by winning both the Gold Award of the Design Category and Best Presentation Award at the 7th National Assistive & Rehabilitation Technologies Student Innovation Challenge in April 2019, co-organised by Nanyang Technological University (NTU)'s Rehabilitation Research Institute of Singapore (RRIS) and the Centre for Healthcare Assistive and Robotics Technology (CHART) at Changi General Hospital.

Held since 2013, the challenge aims to encourage students to develop solutions that help improve the lives of the elderly and people with disabilities. A total of 24 ITE, polytechnic and university student teams presented their innovations this year.

Mobility is a cause close to Mr Yong's heart. He began devising a solution to aid elderly in their grocery shopping based on the experience of his 64-year-old mother, who often made multiple trips to the supermarket each week with a shortened shopping list as she had difficulty carrying the heavy groceries home herself. It took him eight months to complete his design with input from Assoc Prof Benjamin Soon, Programme Director, SIT, who shared with him the mobility limitations of the elderly. His solution was Troll-E, a Personal Mobility Device (PMD) which converts into a trolley in three easy steps. It can bear up to 30kg of groceries, and also aims to change the negative stigma usually faced by the elderly when using a Personal Mobility Aid (PMA).

On his win, Mr Yong revealed, "I feel deeply humbled to have won among so many other talented individuals. In fact, I am genuinely more inspired than proud to know that there are many others out there sharing the same ambition to make the world a more inclusive place."

Mr Yong is currently refining his prototype to adjust the height of the seat and update the grocery box at the back with an attached grocery bag which the user can easily remove to unload groceries. He will represent Singapore along with two other winning teams in the international Convention on Rehabilitation Engineering and Assistive Technology (i-CREATE) held in Canberra, Australia, in August 2019.



Members of first winning team (from left): Mr Thian Le Wei, Mr A Eswaran Reddiar, Mr Mohamed Rizwan, Mr Ang Wei Sin, and Mr Arvinderpal Singh.



Members of the second winning team (from left): Mr Chiam Yi Sheng, Ms Siti Syafiqah, Mr Mong Jun Hao, Mr Bryan Low and Mr Mustansir Dohadwala.

Innovative SITizens Help Shipping Industry Go Green

Two teams from SIT-NU marine programmes receive commendation awards and S\$5,000 cash prizes in a competition aimed at helping shipping companies adopt cleaner fuels

With their cost-efficient proposals that streamlined retrofitting operations, two teams of Year 2 students from the SIT-Newcastle University (NU) marine programmes impressed judges at the Low-Cost LNG Retrofit Challenge. Participants had to develop cost-efficient and innovative Liquefied Natural Gas (LNG) fuel gas system designs and installation concepts that could be retrofitted to an existing vessel, allowing shipping companies to embrace cleaner fuels and reduce harmful emissions, including adhering to the International Maritime Organisation's stringent guidelines on ship emissions that come into effect from 2020.

The first team led by Mr Ang Wei Sin fashioned a design that adds LNG-ready prefabricated sponson storage at both sides of the ship. Such a retrofit can be done in eight weeks and increases the additional cargo carrying capacity by 8% "It was quite a steep learning curve as LNG concepts are quite new to most of us. Nonetheless it was a very fruitful experience and we are glad that we persevered on," said Mr Ang.

The second team proposed the use of manganese-steel as a cheaper and viable alternative to the current nickel-based steels, factoring in the material's tensile strength and feasibility to store LNG fuel.

"Through this competition, we have certainly honed our project management skills to produce a report in an extremely tight turnaround time, as well as people management skills in coordinating everyone's schedule and roles," said team leader Mr Bryan Low.

Held from July to December 2018, the competition attracted over 60 participants from universities in Singapore.

Uplifting Gift Brings Cheer and Goodwill

New gift from Loyang Tua Pek Kong Temple makes possible bursaries in aid of SIT students

On 17 March, SIT recipients of the Loyang Tua Pek Kong Bursary not only received much-needed financial support, but also got a chance to enjoy the festivities at the 2019 birthday celebration of Loyang Tua Pek Kong Temple.

Renowned in Singapore as a symbol of religious harmony, Loyang Tua Pek Kong Temple is a multi-religious place of worship where Taoist, Buddhist and Hindu devotees can worship side by side. The Temple's gift to SIT has made possible 10 Bursaries annually for students across all five academic clusters.

The recipients were treated to performances and also enjoyed local snacks from booths serving refreshments to the public. Mr Koo Jia Wei, a Year 3 Telematics student and Bursary recipient, thought the event was an

eye-opener. "I had heard of Loyang Tua Pek Kong before, but this was my first time there," he said. "The turnout was huge, and I had no idea such large festive events existed other than Chinese New Year."

He also shared how grateful he was for the Temple's support. "Due to unforeseen circumstances, the money I had initially set aside for my tuition fees was not sufficient. I had to start thinking about whether or not to take up weekend jobs for my expenses. Luckily, with the Loyang Tua Pek Kong Bursary, I am now able to pay off the remaining fees and spare more time for my assignments and projects."



Mr Koo Jia Wei (in grey shirt), receiving the Bursary from Guest of Honour Mr Ng Chee Meng, Minister in the Prime Minister's Office, and representatives of the Loyang Tua Pek Kong Temple.



The first-ever batch of Loyang Tua Pek Kong Bursary recipients at SIT come from across all five SIT academic clusters.



(From left) Prof Tan Thiam Soon, President, SIT, Mr George Peh, Chairman, Loyang Tua Pek Kong Temple, Mr Teo Chee Hean, Senior Minister and Coordinating Minister for National Security, and Prof Yaacob Ibrahim, Advisor, Office of the President, SIT.



Recipients presenting a token of appreciation to Mr Chew Ghim Bok, President, Rotary Club of Bugis Junction (third from left).



Recipients with members from the Rotary Club of Bugis Junction as well as SIT staff.

Some Breakfast and a Lot of Fellowship

At the Rotary Club of Bugis Junction Breakfast Meeting, SIT students and alumni expressed their appreciation for the Club's support

Seven students and alumni from the Singapore Institute of Technology (SIT) were among the attendees of the Rotary Club of Bugis Junction (RCBJ) Breakfast Meeting held on the Saturday morning of 2 March 2019 at the Holiday Inn Singapore Atrium. They are also recipients of the Rotary Club of Bugis Junction Scholarship, Rotary Club of Bugis Junction Bursary and Rotary Club of Bugis Junction Outstanding Student Award – all of which had been made possible by the Club at SIT.

During the breakfast, the recipients engaged in a fruitful discussion with RCBJ members in attendance led by Mr Chew Ghim Bok, President, Rotary Club of Bugis Junction. In addition to dispensing professional advice to the recipients, the Club's members offered to mentor the recipients and help them navigate the workforce.

In addition to expressing their gratitude, each of the recipients shared how the support from RCBJ has tremendously impacted their lives.

Ms Kilice Ng, a third-year Hospitality Business student and recipient of the Rotary Club of Bugis Junction Outstanding Student Award in Academic Year (AY) 2018/19, is currently the president of SIT's Community Service Club. She shared during the session about how passionate she was about serving the community. She said, "I want to influence people around me to make a difference in the lives of others."

Also present was Mr Wong Kai Xian, the very first recipient of the Outstanding Student Award in AY 2015/16. The 27-year-old graduated in 2016 with a First Class Honours degree in Aerospace Systems. He now works at Pratt & Whitney as a Purchasing & Solutions Lead. Mr Wong thanked RCBJ for their generous gift and shared that it has left an indelible mark on him as an individual – knowing that there are others who believe in his capabilities. He said, "Receiving the award has motivated me to do better and to pay it forward."

The Rotary Club of Bugis Junction Outstanding Student Award at SIT was made possible by RCBJ in 2015. In 2016, RCBJ made permanent its support of SIT students through the Rotary Club of Bugis Junction Endowment Fund, which supports the Scholarship, Bursary and Outstanding Student Award.



Ms Joscelin Yu (left), one of the recipients of the Kewalram Chanrai Group Scholarship, greets Mrs Chanrai.



Before the appreciation, the recipients had banded together to prepare a special token of appreciation for Mr and Mrs Chanrai – they had spent two afternoons making paper flowers to express their gratitude for the scholarship.

Blossoming Young Talents

Even more women undergraduates are given the opportunity to shine, thanks to the increased support for the Kewalram Chanrai Group Scholarship

Made possible by an endowed gift from the Kewalram Chanrai Group in 2015, the Kewalram Chanrai Group Scholarship at the Singapore Institute of Technology (SIT) is unique as it supports promising women undergraduates at the university. Now, thanks to a new gift made by the Group in 2018, up to 10 students will be nurtured by the Scholarship annually, and in perpetuity.

The recipients of the Scholarship had the opportunity to meet and thank Mr Narain Girdhar Chanrai at an appreciation lunch hosted by Prof Tan Thiam Soon, President, SIT for the Kewalram Chanrai Group on 16 April 2019. Also present at the event were Mrs Chanrai, Ms Annie Toh, Financial Controller, Kewalram Chanrai Group, as well as SIT faculty and staff.

Among the recipients was Ms Lim Pei Shan, who was among the first students at SIT to receive the Scholarship when it was first established in 2015. She was only a first-year student then, and received the Scholarship for two consecutive years. She will now be graduating in October 2019. Ms Munirah Begum D/O Mohamed Shariff, a first year student in the Criminology & Security programme, shared during the event how receiving the Scholarship in Academic Year 2018/19 has helped her tremendously. She said, "It made me realise that it is possible for me to strive

further and debunk the stereotypes that women especially can't take up further studies."

Prof Tan Thiam Soon, President, SIT, thanked Mr Chanrai and the Group for having made the scholarship possible. He said that through the scholarship, "The Kewalram Chanrai Group is providing opportunities for promising young women to become future leaders so that they can help create a better life for themselves, their families and the community."



The recipients of the Kewalram Chanrai Group Scholarship, together with Prof Tan Thiam Soon, President, SIT, Mr & Mrs Chanrai, as well as Ms Annie Toh, Financial Controller, Kewalram Chanrai Group.



Kewalram Chanrai Group Scholarship recipients, Ms Munirah Begum D/O Mohamed Shariff (left), and Ms Dawn Emelia Lee Min Ni, sharing with the attendees how much the scholarship has impacted their lives.



Prof Tan Thiam Soon, President, SIT (right), showing the model of SIT's new campus in Punggol to Mr Narain Girdhar Chanrai (left) and Mrs Narain Girdhar Chanrai (middle).

Heading the Call for Sustainability at The Mapletree Challenge

This unique learning initiative, supported by Mapletree Investments, promotes spirit of innovation and inculcates job interview and presentation skills among SIT students

Taking place for the first time, The Mapletree Challenge (2018-2019) saw the participation of more than 500 students across various programmes at the Singapore Institute of Technology (SIT). Supported by Mapletree Investments, this is the first such learning programme at SIT and aims to equip students at SIT with job interview and presentation skills, while providing them with a test-bed to pitch their entrepreneurial ideas.

Over the course of seven months, beginning in October 2018, The Mapletree Challenge consisted of a series of masterclasses on personal branding, interview and presentation skills, a forum discussion on entrepreneurship and sustainable innovation, as well as small group mentorship from industry experts on their entrepreneurial ideas.

To drum up buzz for The Mapletree Challenge among their fellow SITizens, students from the Hospitality Business programme also took it upon themselves to organise The Mapletree Fest on 15 March 2019 – an evening of fun and games which also featured faculty and guest speakers sharing their take on sustainability.



Enthusiastic audience members eagerly participating in a quiz segment during The Mapletree Fest.

Ms Chiam Jia Ying, a Year 2 Hospitality Business student was part of the student organising committee, which also helped to organise the Forum and the Grand Final. She said that her organising team of nine had prepared one month ahead for the festival and was happy to see the fantastic turnout. She added, "We wanted to organise this roadshow to raise awareness for the upcoming Mapletree Challenge events to get students and faculty to show their support for the competing teams."

All of these activities culminated in The Mapletree Challenge Grand Final on 2 May 2019.

Prof Tan Thiam Soon, President, SIT, said, "The Mapletree Challenge is the first learning initiative of its kind at our young university, and it is a great example of a platform that integrates learning, industry and community."

Mr Edmund Cheng, Chairman of Mapletree, said, "Aligned to our support for education, which is one of our four Corporate Social Responsibility pillars, it is our aim for The Mapletree Challenge to provide entrepreneurial students with a platform to test their ideas and showcase innovative solutions which could be adapted into real life scenarios."

Mapletree is a leading real estate development, investment, capital and property management company headquartered in Singapore. It has also made possible the Mapletree Bursary at SIT, in support of financially disadvantaged students at the university.



Mr Lionel Lim (third from right), who had trained the students for the Masterclasses, was also present during The Mapletree Fest to give out prizes to winners of the Professional Pitch Vodcasts, which were submitted by participants after the Job Interview & Presentation Masterclasses.



Team YARJ Green Insight, one of the finalists, after the semi-finals of The Mapletree Challenge with Mr Brad Blackstone, Senior Lecturer, SIT, and Co-Chair of The Mapletree Challenge (middle).

The Mapletree Innovation and Entrepreneurship Forum

The Mapletree Innovation and Entrepreneurship Forum took place on 20 March 2019, with over 180 participants attending to hear a distinguished panel discuss their perspectives on entrepreneurship and sustainable solutions for today's world, moderated by Co-Chair of The Mapletree Challenge, SIT's Asst Prof Victor Cole from the Centre for Communication Skills.

The panel consisted of Mr Shamir Rahim, Founder and CEO, VersaFleet Pte Ltd, Mr Zach Wilson, Managing Director, AlfaTech & DVUCA, Ms Nancy Ling, Co-Founder, EcoU, and Mr Eugene Wong, Founder & Managing Director, Sirius Venture Capital. The speakers discussed emerging trends for sustainable innovations in their respective industries, and offered valuable insights based on their experiences with their own businesses and their journeys as entrepreneurs.

The discussion saw many students coming forward during the Q&A Segment to ask questions about what it takes to become an entrepreneur.

Mr Aloysius Teo, a second-year Criminology and Security student, said, "I learned that failure is mandatory, before one can achieve success. In entrepreneurship, there may not be an original idea that lasts forever. One must keep evolving to remain ahead of the competition." He added, "The forum was helpful as it showed that despite everyone coming from different industries, there are core traits, characteristics and attitudes that one must have if one wants to be an entrepreneur."



The panel dished out much advice on their experiences and how to survive as an entrepreneur. The speakers for the night were: (from left) Mr Shamir Rahim, Founder and CEO, VersaFleet Pte Ltd, Mr Zach Wilson, Managing Director, AlfaTech & DVUCA, Ms Nancy Ling, Co-Founder, EcoU, Mr Eugene Wong, Founder & Managing Director, Sirius Venture Capital, and moderator, Asst Prof Victor Cole, SIT and Co-Chair of The Mapletree Challenge.



Students attending the forum asked many questions about the prospects of being an entrepreneur and delved into topics about their respective industries.



Prof Tan Thiam Soon, President, SIT (left), presenting a token of appreciation to Mr Edmund Cheng, Chairman, Mapletree Investments.

Nursing Students Win The Mapletree Challenge Grand Final with Practical and Innovative Design

The Mapletree Challenge Grand Final was held at Mapletree Business City on 2 May 2019. Six teams presented their ideas for sustainable innovations to a panel of distinguished judges, consisting of Dr Reto Callegari, Entrepreneur-in-Residence, SIT, Prof Yaacob Ibrahim, Advisor, Office of the President, SIT, Prof Ng Siu Choon, Associate Provost (Students), SIT, and Ms Heng Sue Yuan, Vice President, Corporate Communications, Mapletree Investments. Prior to the Grand Final, the teams had been mentored by industry experts – who gave them suggestions on how best to pitch their ideas.

Emerging as the inaugural champion was Team Trolley, consisting of a group of first year students from the SIT-University of Glasgow Nursing programme. The team impressed the judges with a customisable redesign of a laundry trolley, inspired by their observations that nurses were struggling when handling patients' laundry during their clinical attachment at a nursing home (for more on their innovation, please see Page 12).

The team simply hoped to share their innovation with others, and did not have much confidence in winning initially. "I think it was an eye opener for us in the business world. We are nurses with practically zero background in this field," said team leader Ms Joanne Chua. "It was an opportunity for us to look into techniques for business and marketing."

The Challenge has also given other teams the opportunity to explore their projects further, despite not winning. Team Scooter Power is currently



The judging panel grilled each team after their presentation. From left: Dr Reto Callegari, Entrepreneur-in-Residence, SIT, Prof Yaacob Ibrahim, Advisor, Office of the President, SIT, Ms Heng Sue Yuan, Vice President, Corporate Communications, Mapletree Investments and Prof Ng Siu Choon, Associate Provost (Students), SIT.

collaborating with SIT and Mapletree on their prototype of a pedal-powered scooter. Said team leader Mr Chan Xinyin, who is enrolled in the Mechanical Design Engineering programme (UofG) "Mapletree has engaged us for the development of the scooter, and we are hoping to find use for it in Mapletree properties."

The winning team clinched the Mapletree Gold Award and a cash prize of \$5,000. They were followed by first runner-up Team FX1, represented by Samuel Seah from UofG's Computing Science programme, and second runner-up Team JNL, consisting of Leslie Woon and Tong Jun Hong, also pursuing Computing Science.



Assoc Prof Deng Xudong, Director, SIT, gives an overview of The Mapletree Challenge journey at SIT since October 2018.



Dr Amy Khor, Senior Minister of State, Ministry of Environment and Water Resources & Ministry of Health (third from left in front row) was present at The Mapletree Challenge Grand Final to hand out the awards to the winning teams.



The six teams presented to a full house at Mapletree Business City.



The speakers discussing how technology is increasingly becoming integrated into daily life, and the unique opportunities this presents for people with practical ICT skills such as young SIT graduates.



The panellists for the evening (from left), Mr Eddie Chau, Mr Ken Soh and Ms Angela Wu regaled the crowd with colourful quips and anecdotes, as they shared their perspectives on the evolving ICT industry and the journey ahead for young graduates.



Prof Tan Thiam Soon (eighth from left), President, SIT, and representatives of SIT together with the industry mentors. The mentors are: Mr Howie Lau, Chief Industry Development Officer (Industry Development), Info-communications Media Development Authority (third from left); Mr Peter Moore, Regional Managing Director, Amazon Web Services Singapore (fourth from left); Mr Leonard Sim, Director/Head of Presales, APAC, Kaspersky Lab Singapore (fifth from left); Ms Shirley Wong, Managing Partner, TNF Ventures (sixth from left); Mr Eddie Chau, Co-founding Partner, TNF Ventures (centre); Ms Angela Wu, Threat Intelligence Analyst, VMware (fifth from right); Mr Ken Soh, Chief Executive Officer, Athena Dynamics (fourth from right); Mr Eric Goh, Vice President & Managing Director, Singapore Enterprise Business, Dell EMC (third from right); Mr Rayson Lim, Chief Financial Officer, M.Tech Holdings (second from right).

Inside The SITuation Room

SITizens find mentorship and more from Infocomm Technology leaders and veterans at the first-ever run of The SITuation Room: Dialogue with Leaders for ICT Professionals

When the chance to be mentored by industry veterans came in the form of The SITuation Room, SIT alumni and students from the Infocomm Technology (ICT) cluster wasted no time in signing up.

The SITuation Room has two main segments. The first was a dialogue session held on 27 March 2019 with ICT industry leaders who discussed major trends and challenges in the field. The main speakers for the evening were Mr Eddie Chau, Co-founding Partner of tech start-up incubator TNF Ventures; Ms Angela Wu, Threat Intelligence Analyst of virtualisation and cloud computing software provider, VMware; and Mr Ken Soh, Chief Executive Officer of cybersecurity firm Athena Dynamics. There was also a networking session which preceded the dialogue, where SITizens got the chance to mingle with leaders and professionals from organisations such as Amazon Web Services, Dell EMC and Kaspersky Lab Singapore. The discussion was moderated by Prof Yaacob Ibrahim, Advisor, Office of the President, SIT.

Mr Darren Lim, Year 2 Information and Communications Technology (Software Engineering) student, said he particularly enjoyed an anecdote by Ms Angela Wu during the dialogue. "I really liked how she shared her life story of having close to zero knowledge in cybersecurity, and working hard until she finally became an expert at it," he said, adding that he felt this spirit of constant improvement could be applied to all domains.

The second segment is an ongoing pilot mentorship programme. Students and alumni are arranged in small groups and mentored by one of the professionals they met during the networking session.

Ms Linette Leow, Year 3 Information and Communications Technology (Information Security) student, is part of a group being mentored by Mr Rayson Lim, Chief Financial Officer of cyber security and network performance solutions company, M.Tech Holdings Pte Ltd. She said: "I think the

mentoring sessions have given me a good opportunity to mingle with someone from the industry and understand how it's like to work outside. Talking with Mr Lim was enjoyable; he encouraged us to not just listen to him but talk about our own lives as well. In the end it became a sharing session where we all got to know each other better."

One of the main things Linette learnt through the session was Mr Lim's advice on handling one's own emotions and working relationships. "He shared that sometimes people express anger at you not because of something you did but because they are frustrated with something else. Instead of venting it back at the person, I also have the option to lend them a listening ear instead. I feel such advice is applicable to both work and everyday life."

The next run of The SITuation Room will be planned for alumni and graduating students from the Engineering cluster. Look out for more updates soon!



Participants smiling at lively exchanges between the speakers and a student.



Mr Howie Lau (extreme right in left photo) and Ms Shirley Wong, (extreme right in right photo) getting to know SITizens during the networking segment of the evening.



Mr Rayson Lim (seated, centre) with students and alumni, enjoying a great night out together during the first mentorship session.

IMAGINE!

Modular Wonder

Flexible trolley design which solves a real-world problem wins at The Mapletree Challenge Grand Final

Modular Trolley

By Abdul Rafi Bin Abdul Rahim, Ang Zi Qing, Joanne Chua, Kang Xun, Koh Thong Wu, Liu Zhi Ting and Tan Hong Da

Bachelor of Science with Honours in Nursing

During a two-week clinical attachment at a nursing home, seven first year students from the Nursing programme observed how a plastic laundry cart was costing the organisation. Laundry sorting was inefficient due to lack of proper labelling, and added on to the time nurses or volunteers needed to complete a task. It also caused clutter and increased the possibility of infection for the patients.

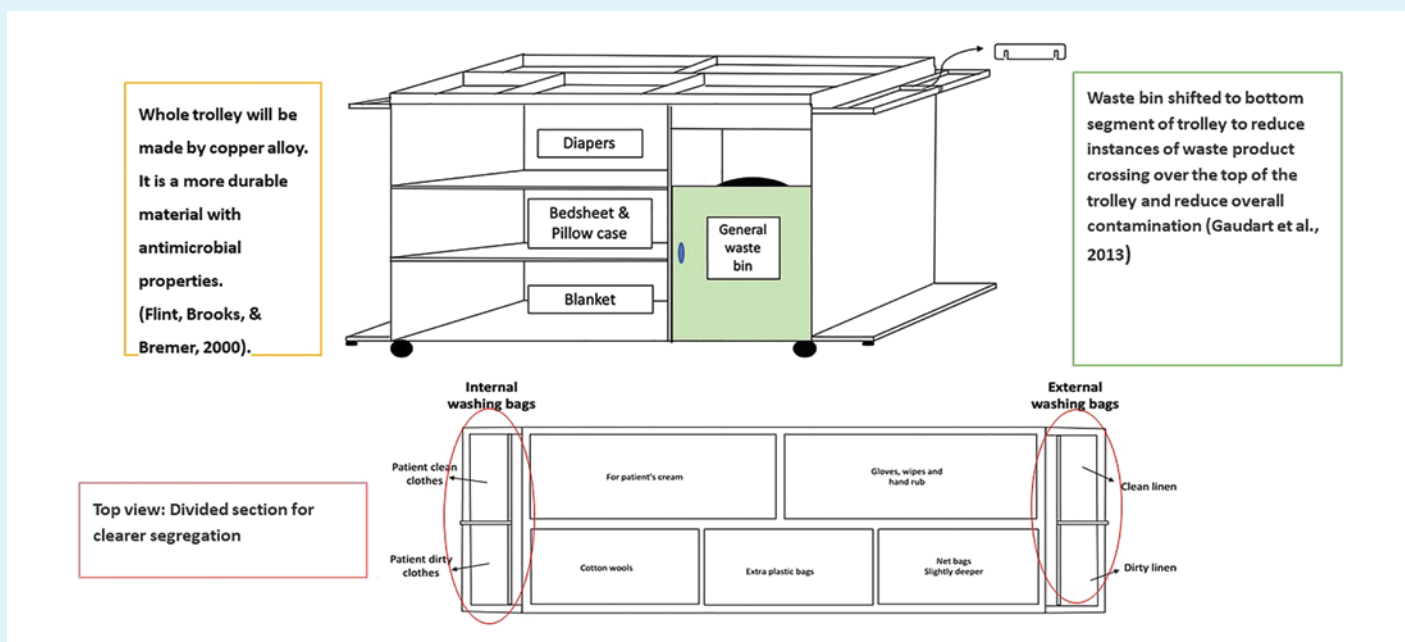
To solve these issues, the group came up with the idea for a modular trolley made from an antimicrobial copper alloy which would feature customisable, divided sections for clearer segregation of items needed in the nursing home. This practical idea which addressed a real life need led to the group winning The Mapletree Gold at The Mapletree Challenge Grand Final (for more, please see Page 8).

In their research, the group found that copper alloy is a sturdier material with antimicrobial properties. These properties are also not reduced even with the use of commercially available disinfectants. They also shifted the waste bin to the bottom segment of the trolley to reduce overall cross-contamination. The group also redesigned the linen bags for the trolley to indicate which bags contained contaminated clothes, and which will be sent to an external vendor for washing.

According to Ms Joanne Chua, most trolleys available in the market are inflexible or made with other types of material. The trolley's modular function also means that it can be used in a variety of other settings and can be customised as needed for a particular organisation. She said that group was elated about their win at The Mapletree Challenge. Ms Chua added, "We hope that the idea will be picked up by a manufacturer or a healthcare organisation."



The proud members of Team Trolley: Tan Hong Da, Koh Thong Wu, Joanne Chua, Kang Xun, Abdul Rafi Bin Abdul Rahim, Ang Zi Qing, and Liu Zhi Ting.



The design sketch for the modular trolley with its various compartments and features.



Alumni like Mr Lim Xing Yi (left) practised introducing themselves and the proper way to exchange business cards.

A Pleasure to Mingle With You

SITizens learn some useful life skills in deportment and etiquette at The Art of Mingling & Networking workshop

On Saturday, 27 April 2019, SIT alumni gathered at Pan Pacific Singapore for The Art of Mingling & Networking, an etiquette and networking workshop organised by the SIT Alumni Career Network. Conducted by Ms Agnes Koh of Etiquette & Image International, the participants learned about the importance of making a good first impression, which begins with deportment – the way a person stands, walks and behaves. They were taught how to execute good posture, where to place their hands, and even the right way to sit.

The participants also learnt the basic components of mingling, from how to introduce oneself, the right way to exchange business cards, as well as how to execute a basic handshake. They were encouraged to move around the room and practise with everyone instead of sticking to one partner throughout the whole workshop. Ms Koh also gave the alumni multiple situations that they might experience at a networking event, such as attempting to enter a group or striking up a conversation at a coffee bar.

Mr Lim Xing Yi, who graduated from SIT's Information & Communications Technology (Software Engineering) programme, made use of the tips he learnt at the buffet line of a talk he attended. "I offered a paper plate to the person queueing next to me, after which I followed up on the taste of the food since the person was alone, and not long after, a meaningful conversation kicked off," he recounted.

Ms Faezah Binte Shahari, an Aerospace Systems (SIT-UofG) alumna, felt that the session allowed her to relearn the basics of business etiquette. "While networking and mingling might seem basic, the workshop allowed us to further polish our skills in order to present ourselves better at the workplace," she said. "Given the opportunity, I would love to learn more. As I'm in customer support, this will better equip me managing customers and their expectations."



The participants practise how to execute good posture and measure where to place their hands when standing.



Alumni with Ms Agnes Koh, all ready with their new networking skills.

Alumni, Assemble!

SITizens all ready for the climactic finale of the Avengers film series at SIT Alumni Movie Night



SITizens in line, eagerly waiting to collect their movie tickets.

On 8 May 2019, SIT alumni gathered at Shaw Lido for the highly-anticipated blockbuster of the year, Avengers: Endgame. Organised by the SIT Alumni Leisure Network, the SIT Alumni Movie Night saw over 230 alumni and various faculty members in attendance, all eager to catch the 22nd film in the Marvel Cinematic Universe.

Tucking into a sumptuous buffet spread before the movie, the participants wasted no time in reconnecting with fellow SITizens. Mr Gordon Yeo, an alumnus from the Aeronautical Engineering programme (SIT-University of Glasgow), also had the opportunity to chat with Mr Chan Wing Leong, Deputy President (Administration) and Chief Financial Officer, SIT, over a common interest – Ultimate Frisbee and received valuable advice on career building.

“My takeaway from our conversation was that we should not forget that building a career path is going to take time, and we should remind ourselves not to be consumed by the occasional need to feel instantly gratified by the effort we put in,” shared Mr Yeo.



Student helps engaging alumni on what they hope to see at future SIT Alumni events.



(From left) Assoc Prof Alfred Tan, Programme Director, SIT, Assoc Prof Gan Hiong Yap, Programme Director, SIT, Assoc Prof Lee Kwee Hiong, Cluster Director, SIT, caught up with alumni Miss Jennifer Wee Zhen Zhen and Mr Ong Shi Ming.



Flashing bright smiles before going to enjoy the epic conclusion to a series of 22 Marvel movies.



Fuelling up with a hearty buffet dinner before the show!



Huddling close for a photo with Assoc Prof Jeanette Ng, Cluster Director, SIT (extreme right).

Armed with popcorn and drinks, the participants were all set for the movie. Marvel fan Mr Dominic Ngian, who graduated in 2015 from the Hospitality Management programme (UNLV) had attended all of SIT's Alumni Movie Nights featuring Marvel movies. He said, “Such movie nights provide us with friends that we may be too busy to meet in our personal lives,



Mr Chan Wing Leong, Deputy President (Administration) and Chief Financial Officer, sharing career building advice with alumni.

while giving us a chance to watch movies that we all enjoy and can discuss about after.”

As per SIT Alumni Movie Night tradition, there was a namecard drop lucky draw and several alumni walked away happily with CapitaLand vouchers.



Alumni wondering what will the ending be like for the Avengers.



In the queue early to snag good seats for maximum viewing pleasure.




Gleeful SITizens, ready for the movie after scoring choice seats.



Transfixed to the screen as the story unfolded.

SIT Alumni Card Benefits





Scan for the latest merchant discounts available!

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LIP BALM + SALT SCRUB WORKSHOP



DATE: SATURDAY, 29 JUNE 2019
TIME: 1:30PM TO 4:30PM
VENUE: ROOM2F@ESPLANADE MALL
#02-19, 8 RAFFLES AVENUE
SINGAPORE 039802

TRAINER:
MS CHEW JIA TIAN
(UOM-NURSING PRACTICE ALUMNUS 2016)
FOUNDER OF ROUGH BEAUTY

Contact Us: Alumni@SingaporeTech.edu.sg
Tel: 6592 3314 | 6592 2129

Presented by:
Advancement & Alumni Division



Dialogue with Leaders for Engineering Professionals

The SITUation Room is back for its second instalment with the Engineering Cluster!

Come learn from industry veterans and sign up for mentoring sessions with Engineering Leaders.

Date: Wednesday, 28 August 2019
Time: 6:30pm – 8:30pm
Venue: SIT@Dover
(Exact location to be confirmed)

Contact Us: Alumni@SingaporeTech.edu.sg
Tel: 6592 2114 | 6592 2129