LEE KONG CHIAN
SCHOOL OF MEDICINE
Redefining medicine, transforming healthcare

CLASS OF 2013 REJOICE
NTU & ROLLS-ROYCE IN S$75 MILLION TIE-UP
ULTRA-MARATHONER CONQUERS DEATH VALLEY
CELEBRATING EVERLASTING FRIENDSHIP
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Dear NTU Alumni,

To educators, few things can be as satisfying as witnessing graduands transform into graduates at Convocation time, as their beaming parents look on from the audience. It is a moment of fruitfulness that educators cannot help but savour – and I am happy to report that NTU did in fact enjoy a great harvest at our 18 Convocation ceremonies in 2013.

This year, more than 9,500 undergraduate and graduate students received their degrees, and almost 7 in 10 amongst them had already secured jobs even before graduation. The figure is even higher for the double degree cohort in Accountancy and Business from Nanyang Business School (NBS) – with almost 9 in 10 securing jobs before graduation, and the top 10 percent drawing an average salary of $8,245. As in previous years, I am also seeing some graduates take the path of entrepreneurship or fresh ventures abroad. There are many individual success stories; all are as heartening as they are varied, proving once again that at NTU, success comes in many forms.

NTU continues to scale greater heights. Very recently in September this year, NTU moved up six places to No. 41 in the 2013 World University Rankings announced by Quacquarelli Symonds (QS). This is the third straight year that NTU has jumped up the QS rankings, rising 33 notches over the last three years. One of only two young universities below 50 years old amongst the global elite, NTU is also the fastest-rising Asian university in the world’s Top 50.

NTU has also reaped a bumper crop in its fresh intake of students in 2013. Compared to 2011, there has been a 60% spike in top A-level students enrolling this year, a significant increase from last year’s 43% jump. The top five NTU programmes chosen by these top students are: Accountancy & Business, Renaissance Engineering, Biological Sciences, Chemical & Biomolecular Engineering, and Aerospace Engineering.

The Lee Kong Chian School of Medicine (LKCMedicine) admitted its first cohort of 54 students, again boosting the quality of our student intake. We welcomed these pioneering medical students at the White Coat Ceremony, where they were presented with white coats and stethoscopes. The ceremony, where Health Minister Gan Kim Yong was the Guest-of-Honour, symbolises the freshmen’s initiation into medicine, marking their transition into clinical settings and a lifelong commitment.
to medicine. The students were presented with their white coats by Professor Dermot Kelleher, Dean of LKCMedicine and Imperial’s Faculty of Medicine during the ceremony which was also attended by President and Rector of Imperial College London, Sir Keith O’Nions, and Mr Lim Chuan Poh, Chairman of LKCMedicine’s Governing Board and Chairman of Singapore’s Agency for Science, Technology and Research (A*STAR).

The Lee Kong Chian School of Medicine, jointly set up with Imperial College London, will add to our strengths in business, engineering, science, and humanities, arts and social sciences, opening up greater opportunities in multidisciplinary work at the University.

These new students will find at NTU a brave new world, in more than one sense of the term. Here, they will find a new academic experience that revolutionises learning and raises the bar on teaching. There is, for example, the ‘flipped classroom’, an initiative that allows today’s always-connected students to learn at their own pace through online lectures, before attending class for active discussions and self-directed learning. The physical campus, too, is being transformed to support this new academic experience and to promote a vibrant student life. A structure to be completed by early next year is the new learning hub at the South Spine. Designed by Thomas Heatherwick, the man behind the cauldron in the 2012 London Olympics, it is set to become a new iconic landmark on our campus.

Much life and colour will be added to the campus landscape, with an initiative to bring public art to our University. Through the display of art in prominent places throughout the campus, we hope to enhance the overall appreciation of art and culture, while providing intellectual stimulation and exposure to new ideas that can inspire fresh creations across disciplines.

NTU has also developed into a research-intensive university in record time with its share of competitive research funding rising to a new high of $441 million in 2012. The University has built excellent research and industry partnerships. Many of these collaborations are raising NTU’s profile in sustainability and attracting research funding. In terms of research output, the average citation per paper at five-year intervals has continued its uptrend. Last year, there were 153 papers with an impact factor greater than 10, up from 55 in 2011.

In July this year, the Rolls-Royce @ NTU Corporate Lab was launched at a joint investment of S$75 million by NTU, Rolls-Royce and the National Research Foundation. This unique research tie-up will kick start 32 new projects over the next five years, tripling the existing number of projects between Rolls-Royce and NTU. The Rolls-Royce @ NTU Corporate Lab is the first of its kind in the world with a university, focusing on three core research areas – Electrical Power and Control Systems, Manufacturing and Repair Technologies and Computational Engineering. It is also the first lab to be supported under the National Research Foundation’s newly launched Corp Lab @ University scheme.

Singapore’s research in 3D printing, also known as Additive Manufacturing, will be boosted by the establishment of a new $30 million research centre at NTU. To be ready by May next year, the new NTU Additive Manufacturing Centre, supported by Singapore’s Economic Development Board, will have the latest 3D printing machines, such as laser-aided machines for building metal parts and objects for industry. The Centre will also have Singapore’s first bioprinter – a device that produces human tissue and organs – which could provide tissue to patients in urgent need of transplants.
NTU is also very proud to be involved in the trial of Singapore’s first-ever fully automated, electric vehicle. This driverless shuttle transportation system will soon see passengers shuttling between NTU and JTC Corporation’s (JTC) CleanTech Park. The partnership between NTU, JTC and Induct Technologies, and supported by Singapore’s Economic Development Board will see the Energy Research Institute @ NTU (ERI@N) test and optimise Induct’s electric shuttle named NAVIA.

Earlier this year, NTU and the BMW Group launched the joint Future Mobility Research Lab, the first for BMW Group in Southeast Asia. This new research facility studies and develops important areas relating to future transportation. The BMW Group-NTU collaboration aims to find solutions to key transport requirements in the most sustainable way possible, especially in the area of electric vehicles.

The University has also collaborated with Lockheed Martin to explore the science of nanotechnology, with special focus on nanocopper and related technologies for the commercial market. The joint research laboratory on campus will also allow NTU students and faculty to work with Lockheed Martin scientists. This collaboration is a good example of how NTU connects to global industrial partners to collectively develop innovative solutions to many global challenges.

Our scientists and faculty are excelling in their areas of expertise. Just last month, our scientists, together with scientists from A*STAR, developed new super biomaterials, such as one from squid’s sucker ring teeth that is harder and more wear-resistant than conventional plastics. This breakthrough through a new interdisciplinary approach will speed up the discovery and development of new and better biomaterials.

Our faculty at Nanyang Business School, Professors Vijay Sethi and Tan Hun Tong have been named the world’s best business professor and the world’s top accounting researcher respectively.

In October this year, NTU played host to two prestigious international events – the World Cultural Council Award Ceremony and the inaugural World Academic Summit. The World Cultural Council, presided by Nobel Prize winner Professor Edmond H Fischer, held the World Cultural Council Award Ceremony in Singapore for the first time, and NTU was chosen as the host. During the ceremony, Nobel laureate Professor Sir Paul Nurse, the President of the Royal Society and Chief Executive of the Francis Crick Institute in London, was presented the Albert Einstein World Award of Science, one of the world’s highest accolades for extraordinary achievements in science.

The World Academic Summit, which NTU co-organised with Times Higher Education, brought together leaders from industry, higher education and government to discuss the commercialisation of research and how universities could fuel technological change and economic growth.

Soaring statistics and remarkable research collaborations, scientists and faculty are exciting to behold, but NTU’s strength may also be found elsewhere – in the robust sense of community shared among our faculty & staff, students, alumni and friends.

Class of 2013 has set a new record in the Graduation Giving programme, with an 87.19 percent participation rate. Globally speaking, and certainly in Singapore, this is a remarkably high percentage. More impressive still is the fact every graduating class at NTU has outdone
亲爱的南大校友们：

对于教育工作者来说，没有什么能比见证这些准毕业生们在毕业典礼上成为毕业生、并且目睹坐在观众席上的家长们眉开眼笑而更加令人心满意足的。这是教育工作者们尽情地享受丰硕成果的幸福时刻 – 而在这里我很高兴地向大家报告，南洋理工大学于2013年通过18场毕业典礼，确实享有了丰硕的成果。

今年，有9500多名本科生和研究生获得学位，而他们每10个人当中就有7人甚至在毕业之前就找到了工作，而顶尖10%的毕业生的平均月薪是8254新元。像在往年一样，我也看到有些毕业生走上自己的创业之路，甚至敢于冒险到国外开拓新事业。有许多个人的成功故事，所有形形色色的故事都令人振奋，也再次证明在南大，通往成功之路有多种形式。

南大继续攀登新高峰。今年9月，在著名的Quacquarelli Symonds（QS）教育评估机构2013年世界大学排名榜上，南大攀升了6个名次，进入第41名。这是南大继续第三年在QS排行榜上跃升，在过去三年里前进了33个名次。在世界精英大学队伍里有两所校龄在50年以下的高等学府，南大是其中之一。

南大在2013年招收新生方面也同样取得了丰收。同2011年相比，今年录取最高A水准学生的比例上升了60%，比去年43%的上升幅度提高了很多。

南大最受这些优秀学生欢迎的五个专业是：会计与商业、博雅英才工程课程、生物科学、化学与生物分子学工程、以及宇航工程。

李光前医学院今年招收了首批54名新生，再次显示了我们招收新生的质量提高了。我们举办了白袍仪式，以正式欢迎首届医科新生们。学生们在仪式上获颁白袍和听诊器。卫生部长颜金勇先生主持了开学典礼，象征着新生进入医学界的开始，也标志着他们的生涯已经从医学环境并将继续投入医疗事业。学生们从李光前医学院院长兼伦敦帝国学院医学院院长德莫特·凯莱赫（Dermot Kelleher）教授手里接过白袍；出席仪式的有伦敦帝国学院院长凯瑟·

the previous cohort since 2005, when this programme was started in support of NTU bursaries, student life and school advancement. Surely, such growing support would indicate a strong sense of affinity and involvement that NTU graduates feel towards their alma mater.

On 1 August, we launched a fund in memory of Professor Ma Jan. An accomplished scientist, committed educator, and former Chair of NTU’s School of Materials Science and Engineering (MSE), he passed away last year at the age of 46. We raised $250,000 in his name. With Government matching, a total of $625,000 will go towards the Ma Jan Memorial Fund, which will support scholarships and bursaries for students at the school in perpetuity.

Thank you, all, for making NTU a University that is worthy of your allegiance.

校长寄语

亲爱的南大校友们：

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奥尼恩爵士（Keith O’Nions）以及新加坡科技研究局主席兼李光前医学院管理委员会主席林泉宝先生。

同伦敦帝国学院共同建立的李光前医学院，将提升我们在商学、工程学、理学、人文科学、艺术学、社会科学等专业的实力，从而为南大的多学科事业提供更多的机会。

这些新生将在南大找到一个美好的新世界。在这里，他们将体会到革新性学习以及教学的高度提升。例如，倡议“翻转课堂”，它能使现今随时连线的学生们根据自己的节奏在进入课堂之前参加网上授课，之后，学生们再参加课堂小组讨论并进行自主学习。校园里的设施也有所转变，以支持这些新的学术体验，并提升学生们充满活力的校园生活。明年年初将要完工的建筑物是南教学区新的学习中心。它是由2012年在伦敦奥运会制造了群情沸腾场面的著名设计师托马斯·赫斯特维克（Thomas Heatherwick）先生所设计，这将成为我们校园里的一座重要的新地标。

新加坡的三维打印技术研究，也称为累积制造技术，将因南大耗资3000多万新元建立的研究中心而得到推动。新的“南大增材制造中心”将于明年5月完工，这所新中心获得新加坡经济发展局支持，将拥有最新的三维打印机，如用于建筑业金属零件和部件的激光辅助打印机。该中心也将拥有新加坡第一台“三维生物打印机”，它是生产人体组织和器官的一种设备，可以在紧急需要时为病人提供移植的人体组织。

南大也自豪地加入了新加坡第一辆全自动电动汽车的试制。这辆无人驾驶的穿梭交通系统很快就会搭载乘客穿梭于南大和裕廊集团的洁净科技园之间。这辆汽车是南大、裕廊集团和Induct科技大学公司的合作项目，并获得新加坡经济发展局的支持，将在南大能源研究所进行试验，并优化Induct科技公司名为NAVIA的电动穿梭汽车。

今年年初，南大与宝马集团创建了“未来流动研究实验室”（the Future Mobility Research Lab），这是宝马在东南亚的首座研究实验室。它将研究和开发未来运输的重要领域，这项合作旨在通过最有利于持续发展的方式，寻找关键运输课题的解决方案，特别是电动汽车领域。
南大也与洛克希德·马丁公司合作，以探索研究纳米科学，将专注于在商业市场上的纳米铜及相关科技的研究。这座设在南大校园里的联合研究实验室将使南大的学生和教员们同洛克希德·马丁公司的科学家们一起工作。这项合作是一个南大如何同全球性业界伙伴就世界所面临的许多挑战课题共同寻找解决方案的良好范例。

我们的科学家和教员们正在发挥并超越他们自己的专长。就在上个月，我们的科学家们同新加坡科技研究院的科学家们一起，研发了新的“超级生物材料”，例如，其中之一是从乌贼吸盘的环形牙齿中提取研发的材料，它比普通塑料更加坚固，更加耐磨。这个通过多元学科研究法所带来的新突破，将加速崭新的和更优良的生物材料的发现和发展。

我们南洋商学院的维嘉·瑟帝（Vijay Sethi）教授和陈汉忠教授被分别评为全球最优秀的商业学教授和最优秀的会计学研究员。

今年10月，南大成为两个享有盛誉的国际盛会的东道主 – 世界文化理事会颁奖典礼和首届世界学术峰会。世界文化理事会由诺贝尔奖得主埃德蒙·费希尔（Edmond H Fischer）先生主持，这是该理事会第一次在新加坡举行颁奖典礼，而南大被遴选为东道主。在颁奖典礼上，诺贝尔奖得主英国皇家学会主席、英国弗朗西斯·科瑞克研究所所长保尔·努斯（Paul Nurse）爵士，被授予艾伯特·爱因斯坦世界科学奖，这是颁发给那些在科学领域里做出非凡成就人士的世界级最高奖项之一。

世界学术峰会由南大和《泰晤士报》高等教育专刊共同主办，吸引了工商企业界、高等院校和政府机构领袖们的参与，议题包括：科研成果的商业化、高等学府如何推动科技变革和促进经济增长。

不断上升的统计数字以及引人注目的研究合作项目，确实令科学家们和教员们振奋，然而南大的实力也展现在其他方面 – 比如在教职员工、学生、校友、南大之友之间逐渐强大的社群归属感。

南大2013年毕业班级在毕业班级捐献活动中创造了一项新纪录，捐献率达到87.19%。从全球范围来说，当然也在新加坡，这个百分比是惊人的高。更令人印象深刻的还有，自从2005年南大开始这项毕业班级捐献活动以来，今年南大每个毕业班级在捐献方面都胜过以往的师兄学姐们。这些捐献用于南大的助学金、学生生活以及院校提升基金。可以肯定的是，这种不断增加的捐献显示了南大毕业生们对母校强大的归属感和参与感。

我们于8月1日设立了马元教授纪念基金。马元教授是一位成功的科学家、坚定的教育家、南大材料科学与工程学院前院长；他因患心脏病于去年去世，享年46岁。我们以他的名义筹集了25万新元。按照政府一比一的资助，总共筹集到62万5000新元，用以设立马元纪念基金，将永久地作为该学院的学生奖学金和助学金。

感谢大家，让南大成为一所值得您们效忠和拥护的大学。
DOCTORS OF THE FUTURE

NTU welcomed its pioneer batch of Lee Kong Chian School of Medicine students in August this year. NTULink explores this new jewel in the University’s crown and what it has to offer to the field of medicine today.

After three years of preparation, Singapore’s newest medical school jointly set up by NTU and Imperial College London started classes this August. Lee Kong Chian School of Medicine (LKCMedicine) held its White Coat Ceremony to officially initiate its pioneer batch of 54 students on 15 August 2013.

The ceremony, where Health Minister Gan Kim Yong was the Guest-of-Honour, symbolises the freshmen’s initiation into medicine, marking their transition into clinical settings and a lifelong commitment to medicine. The students were presented with their white coats by Professor Dermot Kelleher, Dean of LKCMedicine and Imperial’s Faculty of Medicine.

Students reciting the Declaration of a New Medical Student during the White Coat Ceremony. They pledged to practice medicine with integrity, humility, honesty and compassion, without discrimination of gender, race and religion.
Professor Bertil Anderson, President of NTU, Sir Keith O’Nions, President and Rector of Imperial College London, and Mr Lim Chuan Poh, Chairman of LKCMedicine’s Governing Board and Agency for Science, Technology and Research (A*Star) were also present at the ceremony.

THE BEGINNING
It was in September 2010 when the Ministry of Education officially announced the establishment of a new medical school which is a joint partnership between NTU and Imperial College London. The new medical school will be positioned to meet the healthcare demands and needs of the future where graduates of the five-year undergraduate medical degree programme will have a strong understanding of the scientific basis of medicine, along with interdisciplinary subjects including business management, humanities and technology.

The School’s primary clinical partner is the National Healthcare Group, a leader in public healthcare recognised for the quality of its medical expertise, facilities and teaching.

NTU received a very generous gift of $150 million by the Lee Foundation towards the development of the new medical school. Together with the enhanced Singapore Government matching, NTU received a gift amounting to $400 million.

In recognition of the gift, the new medical school was named the Lee Kong Chian School of Medicine, after the founder of the Lee Foundation, renowned business leader, pioneer and philanthropist Tan Sri Dato Lee Kong Chian.

ADMITTING ONLY THE BEST
Fifty-four top students formed the inaugural intake for LKCMedicine when it started classes this August. These students persevered through a rigorous admissions process that evaluated not just their academic capabilities but also their depth of character.

LKCMedicine received 817 applicants from amongst those who sat for the BioMedical Admissions Test (BMAT), an admissions requirement of the school in addition to A-Level results or equivalent qualifications. From there, 440 candidates were shortlisted to attend the Multiple-Mini Interviews which consist of eight short interviews. The MMI approach in LKCMedicine uses a series of eight interviews to assess specific skills and qualities and assigns the same interviewer to rate all applicants at a station with that specific question or scenario.

The first batch of students who are all Singaporeans not only hold stellar academic qualifications and excellent communication skills but have also demonstrated the skills required to be outstanding patient-centred doctors, including excellence in problem solving, communications and applying scientific knowledge.

The final 54 chosen medical students had excellent scores in the MMI and also aced their BMAT, achieving better than the average global BMAT scores.

LKCMedicine’s curriculum draws extensively from the world-renowned Imperial College London’s medical curriculum.
LKCMedicine offers a Bachelor of Medicine and Bachelor of Surgery (MBBS) degree programme that draws extensively from the world-renowned Imperial College London’s medical curriculum and leverages on the strengths of NTU in engineering, biomedical research, humanities and business. Upon successful completion of the five-year programme, graduates gain a MBBS degree jointly awarded by both universities.

With a pioneering integrated and multi-disciplinary MBBS curriculum taught by a distinguished global faculty, LKCMedicine will be redefining medicine and transforming healthcare.

In the first two years of the undergraduate programme, much emphasis is placed on Team-Based Learning (TBL). TBL is an instructor-directed, small group instructional strategy that provides students with opportunities to learn actively and apply conceptual knowledge. Students engage in a sequence of activities that includes individual work, teamwork and immediate feedback. A TBL facilitator and content expert will be present to address any questions and concerns from the class.

**LKCMedicine House System**

A comprehensive House System at LKCMedicine has been set up with the aim of giving students maximum opportunity to succeed in the MBBS programme. Individual students will be allocated personal Tutors for guidance and mentorship.

Students are assigned to one of five houses at the start of their studies and remain in the same House throughout their period of study at LKCMedicine. Also, students can discuss their wellbeing and academic progress with House Tutors, while building relationships with fellow students in the same House.

The five LKCMedicine houses are named after famous historical figures who have impacted the history and profession of medicine such as Lim Boon Keng, Alexander Fleming, Marie Curie, Wu Lien-Teh and William Osler, so as to inspire students in their chosen profession.

Each house will have one Senior Tutor and two Tutors. The Tutors come from various backgrounds such as hospital-based clinicians, family physicians and scientists. Students and their Tutors will meet regularly as a group and also in one-on-one meetings between each student and their allocated House Tutor.
SCULLY MARCEL LEON
I think that the MMIs were very well thought out as the interviews tried to find out how will I react and act to a given situation. During the short time frame of each interview, I have had to think of the best solution and I found this to be challenging. It was a big plus that the interviewers were friendly and this certainly made the MMIs better.

I felt that the BMAT was a good gauge on how I will work under pressure as the sections in the BMAT tested both my scientific knowledge and language skills unlike a normal examination. A good doctor is someone who is able to relate with a patient’s ailments and giving him the best care despite the time constraints and pressure.

As the inaugural cohort, we have the chance to help set the culture and traditions of the School. Interacting and working so closely together will help us forge a bond which will bode well for the future when we finally become doctors as we will be able to establish meaningful relationships with our fellow colleagues and also with our patients.

AISHWARYA NARAYANAN
The tie up with Imperial and the teaching methods such as TBL were the key features that helped my decision in joining LKCMedicine. I believe that TBL will allow me to learn concepts better and the Imperial connection adds great value to the MBBS programme.

I’d like to be part of a medical scene that will improve healthcare in Singapore. It is my personal ambition to help those in need and I believe that my study at LKCMedicine will prepare me to do just that.

HUANG BAOXIAN
I am excited because of the numerous possibilities as part of the pioneer batch of LKCMedicine to set the culture of a new medical school in Singapore. The LKCMedicine learning pedagogy appealed to me as it breaks free from traditional teaching methods, which I feel will be a refreshing way to learn. In particular, the TBL approach will give the students more opportunities to cultivate teamwork skills and this will prepare us to work in a medical team at the hospitals.

This approach will also help us develop communication skills to interact with our patients with compassion and empathy in the future. The LKCMedicine programme also gives us a strong foundation in clinical practice as the students get to meet patients from the polyclinics and hospitals only just a few weeks into medical school. I look forward to being part of the healthcare sector as I will be in the position to make a difference to the patients under me.
MEET SOME OF LKCMEDICINE’S STELLAR STAFF...

PROFESSOR BERNHARD BOEHM, PROFESSOR OF METABOLIC MEDICINE
An internationally renowned expert in clinical and experimental diabetes immunology, Professor Boehm’s appointment in LKCMedicine represents a move forward for Singapore in tackling the issue of increasing number of diabetes, obesity and heart disease patients here. In emphasising the importance of his research focus, Prof Boehm pointed out that metabolic diseases such as those brought on by high blood glucose levels have implications on other illnesses such as pneumonia and leukaemia.

Prof Boehm is a strong believer in inter-disciplinary work, stressing that researchers from different fields should work together and seek out correlations in their respective findings, which would help combat and manage various diseases better.

Professor Boehm was appointed as Full Professor of Internal Medicine and the Head of the Division of Diabetes, Endocrinology and Metabolism as well as the Director College for Nutritionists, Ulm University Medical Centre in 1993. He was also nominated to act as the Dean (Graduate Medical Studies) of Ulm University from 2006 to 2009.

Family Physician in the Department of Continuing & Community Care, Tan Tock Seng Hospital. Prior to this, he was a Consultant Family Physician in the Division of Family Medicine at the National University Hospital and also Assistant Professor in Yong Loo Lin School of Medicine in the National University of Singapore (NUS). He completed his MBBS, Masters in Family Medicine and Masters in Public Health from NUS.

After completing his Family Medicine training, Prof Wong worked in the Choa Chu Kang Polyclinic initially as a Family Physician and then as the Head & Senior Family Physician. In 2005 he was awarded the Human Manpower Development Programme fellowship to Monash University for general practice teaching and improvement of preventive health in the primary-care setting.

Prof Wong remains in active clinical practice, working part-time as a Family Physician in a polyclinic. He has more than 10 articles in peer-reviewed journals and has contributed to Disease Management Guidelines of the National Healthcare Group. Prof Wong actively participates in both local and international conferences, with numerous oral and poster presentations.

DR WONG TECK YEE, ASSISTANT DEAN, FAMILY MEDICINE
Adjunct Associate Professor Wong Teck Yee (MBBS, M.Med Family Medicine, MPH) is a Consultant

DR PREMAN RAJALINGAM, SENIOR ASSISTANT DIRECTOR, HEAD OF EDUCATIONAL DEVELOPMENT AND TBL FACILITATION
Dr Preman is responsible for developing and putting in place the faculty development strategy at LKCMedicine. He also delivers presentations and workshops on TBL and other innovative approaches to teaching and learning. Through constant reviews, Dr Preman ensures academic quality for all of the first and second year TBL application exercises.

He leads the team of TBL facilitators who are responsible for running the TBL sessions and facilitating student learning within the classroom. To adopt an evidence-based best practice for teaching and learning, he is also part of a team that develops and implements evaluations of the incoming student cohort.

Cover Story – Doctors Of The Future

Prof Wong engaging with students.

Dr Preman Rajalingam (2nd from left) facilitating a TBL session.
STATE-OF-THE-ART EQUIPMENT

Students at the LKCMedicine are the first in Southeast Asia to use the Anatomage Table for virtual dissection. The latest Anatomage Table, which offers an interactive 3D experience, is also in use at Imperial College London. The Anatomage Table offers an unprecedented realistic visualisation of full body anatomy. Its intuitive touch operation allows students, for example, to use a virtual knife to remove layers of tissue or to view the body's internal structures and at the same time to fully rotate the body, all with the swipe of a finger. Imported from the United States, it delivers accurate anatomic details and is widely acknowledged as an excellent tool for teaching anatomy.

LKCMedicine students will also be pioneering the use of plastinated bodies for medical education in Singapore. Plastinated bodies are human bodies which people have pledged towards the learning and advancement of science upon their death and are preserved through plastination. These human bodies are preserved by replacing the fat and water in body tissues with plastic. The human bodies and body parts, known as specimens, will be used in anatomy classes taught at LKCMedicine.

The School had ordered the human bodies and specimens from Germany, which were prepared to the school’s specifications. There are two whole bodies and various body parts such as hearts, lungs, brains, limbs and torsos.

LKCMedicine’s NEW DUAL CAMPUS HOME

LKCMedicine’s headquarters is now housed at 11 Mandalay, on the historical site where a hostel for medical students was built in 1924. The building had been identified for conservation and has now been restored for use as the School’s headquarters. Adjacent to the conservation building will be the School’s new Clinical Sciences Building which is expected to be ready in early 2016.

The School’s new Experimental Medicine Building is also being built at NTU’s Yunnan Garden Campus. Located within NTU’s biomedical-engineering cluster, the building will have a link to the School of Biological Sciences to facilitate collaboration and partnerships between researchers and students of both Schools. The Experimental Medicine Building is projected to be completed in 2015.

Together, the School’s buildings will house seminar rooms, learning studios, clinical skills training facilities, innovatively-designed laboratories and other teaching and recreational facilities. Students will spend time training in well-equipped, state-of-the-art and technologically advanced learning environments. The buildings are designed to promote collaboration between students, faculty and clinicians through the use of multidisciplinary and interactive spaces and facilities.
build on the research strengths of Imperial and NTU to make medical discoveries that will benefit society.

The main challenge will be the changing demands of healthcare, with people living longer and an accompanying increase in chronic diseases. LKCMedicine doctors will need to be trained to be well prepared to respond, putting each patient’s individual needs at the centre of their care.

In meeting this challenge we are helped by the excellence of the faculty and the strong relationship between NTU and Imperial. We are also privileged to have as our students outstanding young men and women whose inquiring minds and empathy will stand them in good stead for their chosen path of medicine.

In what are your hopes and aspirations for LKCMedicine? What do you think are its challenges?
The School has ambitious goals to redefine medicine and transform healthcare through excellence in both medical education and research. When I was appointed as Dean in August 2012, hundreds of people at Imperial, NTU and in partner healthcare organisations had already contributed to its development, establishing a curriculum, infrastructure and world-class faculty that will offer students an exceptional medical education.

On 5 August this year, we welcomed our first cohort of 54 students who will be working with some of the best talents in medicine and healthcare. My hope is that our students will complete their studies as confident and competent medical practitioners, compassionate and also ready to transform healthcare to meet the needs of Singapore now and in the future. Alongside this we strive to

is expected to be ready in 2015, will further complement this. Our 19-storey Clinical Sciences Building, comprising teaching and research space, along with recreational facilities, opens in early 2016 in Novena. In these two new buildings, apart from our signature seminar rooms, there will be facilities such as alcove clusters and a learning studio for small group learning. This is a feature of the team-based learning which is a major part of the pedagogy at the school.

What is even more exciting is that the Clinical Sciences Building will contribute to the recently-announced HealthCity Novena, Singapore’s first integrated healthcare hub that will see medical institutions sited in close proximity, for easier, safer and more seamless coordination of patient care efforts. We can expect cutting-edge research and innovative medical education to be at core of this future hub, with LKCMedicine featuring strongly. So we are all excited by the extraordinary opportunities that lie ahead for us to redefine medicine and transform healthcare.

Could you share with us some of the School’s future plans and developments?
We will continue to grow our student numbers, and we see the school eventually having a 150-strong cohort each year, to be taught by a distinguished faculty from Singapore and abroad. We have recruited top professors from all over the world and will continue to do.

Our students have started using the world-class learning facilities at both of the School’s campuses. At Yunnan Garden we are located within NTU’s Research Techno Plaza (RTP) and this is where students will make use of some cutting-edge learning tools such as the interactive Anatomage Table. Our School is the first in Southeast Asia to use the Anatomage Table. The table’s intuitive touch operation allows students to do virtual dissection, using a virtual knife to view the body’s internal structures, all with the swipe of a finger. Anatomy teaching tools like this allow for realistic visualisations down to the cellular level, and hands-on practical of full body anatomy in 3D.

Our research labs in RTP and Biopolis are up and running as well. The Experimental Medicine Building on the Yunnan Garden campus, which

What encouraged Imperial College London to partner NTU in developing Singapore’s second undergraduate medical school?
This collaboration is not the first that Imperial has with NTU. Imperial has partnered NTU to offer PhD programmes in Bio-engineering, Chemical Engineering and Chemical Technology, Chemical and Biomedical Engineering.

Imperial is spurred on by NTU’s commitment in developing world-class excellence in medical education and research. The partnership is seen as one of Imperial’s most important collaborations and will span 18 years.

Imperial is also honoured to partner NTU, Asia’s fastest rising university, which is among the world’s Top 50 universities in this year’s Quacquarelli Symonds rankings. It has an international outlook and is making an indelible mark in biomedical science and engineering.
What is the differentiating factor between LKCMedicine’s degree programme when compared to others? Why should aspiring doctors choose LKCMedicine over other medical schools? There are some key features which distinguish the LKCMedicine’s programme from others.

a. Our students will be trained in dynamic patient environments to develop interpersonal, empathic and communication skills that are necessary in order for them to be well-rounded clinicians.

b. We have an innovative pedagogy featuring technology-enhanced learning, Simulation, e-Learning and collaborative Team-Based Learning to train competent, future-ready doctors;

c. Our compact student class size will facilitate closer faculty supervision, dynamic student participation and interaction, and overall a more intensive learning experience;

d. We have a comprehensive student welfare programme in which House Tutors are assigned to provide each student with regular facilitated learning opportunities as well as holistic and structured mentoring;

e. Our technologically-advanced dual Campus at NTU and at Singapore’s newest healthcare campus at Novena, is purpose-built and designed to promote collaboration between students, faculty and clinicians through the use of multidisciplinary and interactive spaces and facilities;

f. We offer an MBBS degree awarded jointly by NTU and Imperial College London, a top-ranking international university with a top-ranking medical school; and

g. We have a distinguished global faculty comprising a dynamic mix of local and international clinicians and scientists, working with NTU and our clinical partners to transform medical education and healthcare.

What does it take to become a student at LKCMedicine? What do you think of our pioneer batch of students and what are your hopes for them?

In addition to good pre-university grades, students need to pass the BioMedicalAdmissions Test (BMAT). Shortlisted students then undergo Multiple Mini Interviews(MMIs) to allow us to assess their suitability in pursuing a medical profession. During these interviews, we assess students on non-clinical qualities: their understanding of medicine as a career, ethical considerations in medicine, interest in science and empathy towards people who might be ill.

I’ve been impressed by the high standard of students here in Singapore; we received applications from many excellent candidates. The competition for admission into LKCMedicine is fierce. In the last admissions round, the School received more than 800 applications, and 440 applicants were interviewed for selection into a cohort of 54 students.

My hope for our students is that they will go on to make a difference to patients’ lives, which remains the main priority for all of us in Medicine, and that they excel in their chosen field.

Exactly what must a doctor do before he or she is considered to be “caring and patient-centric”? Are there any real-life examples you could share?

The delivery of personalised medicine and patient care is very much a cornerstone of being patient-centric. Doctors must develop a level of professionalism which is exemplified by their expertise, commitment, compassion and understanding of the many issues that patient goes through – not just clinical, but also psychological and physiological issues facing the patients and their caregivers. The delivery of care is not just the doctor’s responsibility as patients’ needs have to be examined holistically. In doing so, doctors need to be prepared to work in teams comprising nurses, paramedical and allied health professionals to deliver that care to produce positive clinical outcomes, enhance quality of life and provide assurance and comfort for the patient. Above all, in carrying out these duties, the doctor has to ensure that patient safety is of the utmost importance.

How can LKCMedicine nurture such doctors? Are there any specific programmes in place which will help mould the students to become patient-centric?

From as early as the second month of their MBBS programme, our students work with patients in a range of healthcare settings at Tan Tock Seng Hospital as well as other partner institutions and polyclinics. When we started working on our integrated undergraduate curriculum we wanted an early exposure of our medical students to the clinical environment. We also wanted our students to hone their learning experience not only at acute hospitals but also at the polyclinics and other community-based healthcare facilities, as well as patients’ homes.

We’ve infused our curriculum with Family Medicine teaching blocks, polyclinic experience and instituting a “Long-Term Patient Project” for every student, in order to bring our students closer to patients, their circumstances and environment. Our students will experience medical care that is personal, continuing and comprehensive for all patients, regardless of age, gender, culture and background. We believe this will train doctors who put patients at the centre of all care. Further, as part of their learning, our students will be having clinical encounters in which they hone their skills with the help of simulated patients (SPs). Partly through the SPs, our students will learn to appreciate patient issues, clinically or psychologically, and develop excellent interpersonal and communications skills which are key to being patient-centred doctors.
CONGRATULATIONS, CLASS OF 2013!

NTU celebrates the graduation and success of its newest batch of graduates and welcomes them into the alumni family.

Over 18 NTU Convocation ceremonies held across six days, more than 9,500 NTU graduands received their bachelor’s and postgraduate degrees, showcasing success stories of academic excellence, promising careers and charitable giving.

The Class of 2013 is also a story of generosity, setting a new record of 87.19 percent in class giving, surpassing last year’s 82.08 percent. The class gift supports bursaries for financially disadvantaged students and student life activities.

Presiding at the first Convocation ceremony on 25 July was His Excellency, President Tony Tan Keng Yam, who is also Chancellor of NTU. Ms Sim Ann, Senior Parliamentary Secretary for Communications and Information, and Education, also attended the ceremony where newly minted degrees were presented to the pioneer graduating classes from the Sports Science and Management, double degree in Engineering and Economics, Master in Applied Economics, and Doctor of Education programmes.

In his speech, NTU President Professor Bertil Andersson spoke about the University’s outstanding accomplishments and developments in terms of rankings, campus transformation, stellar faculty, and industry collaborations, amongst others. He also congratulated the graduands and hoped that they will be “good ambassadors” for NTU and at the same time “benefitting from the rapidly increasing reputation” of their alma mater.

“No is the best time to cultivate your curiosity and follow your dreams. Let your NTU star shine and good things will follow,” he said.

BRIGHT EMPLOYMENT PROSPECTS

Amongst the Class of 2013, the double degree cohort in Accountancy and Business from Nanyang Business School (NBS) has done well again this year, with almost 9 in 10 securing employment before graduation, and the top 10 percent drawing an average salary of $8,254.

The employment outlook looks bright for NTU’s Class of 2013 despite the uncertain global economic climate. A preliminary survey conducted by the University at the end of last month found that almost 7 in 10 graduates from the Class of 2013 have secured jobs before graduation, slightly higher than in 2012.

One example is Ms Stella Kae, one of the pioneer graduates of NTU’s Sports Science & Management degree programme, who has received four job offers. There are others who prefer to strike out on their own by starting their company. Information Engineering and Media graduates Ms Joyce Chee, Mr Xia Jianlong and Mr Darius Sim have teamed up to form
eVida to build smart home systems that integrate lighting, electrical and energy control.

For NBS graduate Mr Ivan Koh, the world is his oyster. He is packing his bags for training stints in London and Mumbai, before he moves to Hong Kong to be a graduate trainee in credit risk at Deutsche Bank.

“It is scary yet exciting to begin life anew in a foreign land, but I believe we should be open-minded and bold enough to seize whatever job opportunities that come our way,” he said.

Internships give graduates an edge in highly sought jobs. For example, this year’s top Economics student, Mr Tan Wen Jie, 25, will be joining the Ministry of Finance as an Associate. The recipient of the Koh Boon Hwee Scholars Award had to work 12-hour shifts on weekends, on top of his studies, to support himself and his aged parents. Despite his work commitments, he consistently maintained stellar academic results and even won the Ministry of Trade and Industry’s Book Prize for achieving the best cumulative result from his freshman year to third year. The award came with an internship at the Ministry. On his future aspirations, he said: “I hope to be able to give back to society by formulating impactful policies.”

WATER CHAMPION LEADS HONORARY LUMINARIES LIST
Mr Tan Gee Paw, Chairman of PUB, Singapore’s national water agency, led this year’s list of honorary degree recipients who have distinguished themselves internationally in their chosen fields and have made important contributions to society. Mr Tan was conferred the Honorary Degree of Doctor of Engineering for his significant contributions, having devoted his entire career to environmental and water management sector in Singapore.

Professor Wolfgang A. Hermann, President of Technical University of Munich (TUM) received the Honorary Degree of Doctor of Science in recognition of his significant contributions to the collaborative efforts between TUM and NTU. NTU’s alliance with TUM spans a decade, with the signing of their first MOU in 2003. The partnership between the two universities was further strengthened when TUM and NTU jointly set up a new research centre in 2010 under the National Research Foundation’s Campus for Research Excellence & Technological Enterprise (CREATE) programme known as the TUM-CREATE Centre for Electromobility.

For his instrumental role in expanding Rolls-Royce’s research activities in Singapore as well as forging strong partnerships with NTU, Professor Richard Parker, Director of Research and Technology, Rolls-Royce Group, was conferred an Honorary Degree of Doctor of Engineering last year. He was unable to attend the ceremony last year so he received the honours during the first ceremony. Earlier this week, NTU and Rolls Royce advanced their partnership with the launch of the Rolls Royce Corporate Lab @ NTU, a $75 million joint lab that will pave the way for NTU and Singapore to play an important role in aerospace technology development globally.

The Class of 2013 set a new record in graduation giving this year. Ms Janani Ramadoss (2nd from right), new alumna from the School of Biological Sciences, presents the Class Gift cheque to His Excellency Dr Tony Tan (3rd from right), President of Singapore. Witnessing the ceremony are (from left), Mr Lee Sin Tat (NBS/2013), Ms Lim Zhixin (NBS/2013), NTU President Prof Bertil Andersson and NTU Board of Trustees Chairman Mr Koh Boon Hwee (far right).
Following an annual tradition started in 2005, alumni representatives from Class of 2013 lay a plaque at The Quad, NTU.

Convocation is a moment of immense pride and joy for the graduates and their families.

It's a day of celebration for Class of 2013 alumni as they celebrate their graduation.

The Class of 2013 is a story of generosity, setting a new record of 87.19 percent in class giving.
19 ON CAMPUS – Congratulations, Class Of 2013!

06. Graduates help each other put finishing touches to their academic dresses, ensuring they look their best. | 07. Graduation marks a new beginning for NTU graduands who now commence a new journey in their lives as NTU alumni. | 08. It is a special moment for alumni as they meet His Excellency, Dr Tony Tan, President of Singapore.
NTU President Prof Bertil Andersson has been conferred a prestigious honorary doctorate by Edinburgh University, one of Scotland’s most established universities. Receiving the same honours with Prof Andersson were Professor Harold Kroto, who won the 1996 Nobel Prize in Chemistry and DuPont Chair and Chief Executive Officer Mrs Ellen J Kullman, ranked the world’s fourth most powerful woman in 2011 by Forbes magazine.

Prof Andersson was honoured for his ground-breaking research in biochemistry, and for his contributions to higher education and the fostering of closer ties between Singapore and the United Kingdom.

The world renowned plant biochemist was conferred the Honorary Degree of Doctor of Science by the University’s Vice Chancellor Professor Sir Timothy O’Shea on 29 June at McEwan Hall, the historic graduating hall of Edinburgh University.

This is Prof Andersson’s second honorary doctorate in two months, and fifth in three years. In May 2013, he received an honorary degree from South Korea’s Hanyang University, and in 2011, from Hebrew University of Jerusalem, Symbiosis International University (India), and the University of New South Wales.

In the Laureation speech detailing Prof Andersson’s achievements, Professor Andy Mount of Edinburgh’s School of Chemistry said Prof...
Andersson was being recognised for fostering closer ties between NTU and Edinburgh University, the enduring impact of his pioneering work on the artificial leaf, and his contributions to the advancement of knowledge through the highly influential positions that he has held over the years, such as being the Chief Executive of the European Science Foundation, a member of the Board of Trustees of the Nobel Foundation, a member of the Nobel Committee for Chemistry, and Rector of Linköping University.

Prof Mount also highlighted Prof Andersson’s key role in raising NTU’s international profile and transforming it into one of the fastest-growing research-intensive universities in the world.

Excited but humbled by the award, Prof Andersson said: “This award by Edinburgh University is a great honour not only for me, but also for NTU. The University has risen high and fast in the last two years to become one of the world’s top 50 universities. Singapore can be proud that NTU’s Chemistry programme, which is less than 10 years old, ranks among the world’s top 50 for Chemistry, on par with established universities such as Edinburgh with a much longer and deeper track record in the subject.”

RENEWED BIOCHEMIST A FIRM BELIEVER IN MULTIDISCIPLINARY PROBLEM SOLVING
Prof Andersson is a world renowned biochemist who has authored more than 300 papers covering topics from photosynthesis research to biological membranes. His pioneering research work into how plants cope with light and heat stress, and how photosynthesis takes place under extreme conditions have been influential internationally in advancing the concept of an artificial leaf that can become a potentially inexpensive source of solar energy for the world.

For his outstanding work in biochemistry research and for his contributions to European and Austrian research, Prof Andersson was awarded the prestigious Wilhelm Exner Medal in 2010, joining an elite group of scientists that includes 16 Nobel Prize winners.

Prof Andersson has a longstanding association with the Nobel Foundation and helmed the European Science Foundation before he joined NTU as Provost in 2007. He was appointed the University’s President in 2011.

At NTU, Prof Andersson has been the key driver of the University’s institutional changes across science, engineering and other fields. A firm believer in the importance of interdisciplinary knowledge, Prof Andersson pushed for greater interdisciplinary teaching and research in domains such as sustainability, healthcare, new media, East-West knowledge and innovation.

Prof Andersson, an Imperial Fellow, was also instrumental in Imperial College London coming to Singapore to set up a joint medical school with NTU. The new Lee Kong Chian School of Medicine will welcome its first batch of students next month.

ACTIVE TIES WITH EDINBURGH UNIVERSITY AND THE UK
NTU has active links with Edinburgh, with two agreements that promote student exchanges particularly among both universities’ science and business schools. The success of the exchange programme with NTU which started in 2008 has encouraged Edinburgh to develop further exchanges with the likes of Hong Kong, South Korea, Japan and Siberia. NTU was the first destination outside Europe where it chose to send undergraduate students on its Year Abroad programme. Edinburgh attributes much of the success of the exchange programme with NTU to the excellent staff and top-notch research facilities available at NTU’s campus.

Edinburgh University is particularly renowned for its Chemistry programme, which ranks among the top 50 in the world. The Universities of Edinburgh and St Andrews formed EaStCHEM, the leading Chemistry research school in Scotland, and the largest in the UK, with around 500 researchers. EaStCHEM ranked ahead of Oxford and Cambridge in the country’s Research Assessment Exercise 2008, demonstrating both breadth and depth in both core and interdisciplinary research.
NTU got off to a roaring start on 12 August – the start of a new academic year – by unveiling the official university mascot, Lyon the lion.

Designed by students, the winning entry was chosen from amongst 80 entries received. The winner, Mr Chia Yan An, a final-year Computer Science undergraduate, emerged tops despite strong competition from ten finalists which included six entries from the School of Art, Design and Media. He received the grand prize of S$5,000 from NTU President Professor Bertil Andersson.

Lyon made its debut at Welcome Week, greeted by about 500 students, faculty and staff.

Symbolising the University’s values of strength, courage and fearlessness, Lyon was selected from more than 80 student entries, which included futuristic-looking robots and animal hybrids. The ten shortlisted designs were earlier put to the vote by members of the NTU community, with over 6,000 votes being cast.

“I chose the lion, a symbolic animal mascot, as it is already present in NTU’s Crest. I also incorporated the University’s colours, red and blue, into Lyon’s mane for a distinctive look,” explained Mr Chia. “I’m honoured by this opportunity to leave a legacy in NTU before I graduate.”

Speaking at the Welcome Week launch ceremony, Prof Andersson said: “Our new mascot is a welcome start of a new tradition at NTU, and an icon that all of us should be proud of. As the embodiment of our NTU spirit, it not only brings our community together, but will also inspire our teams to give their best performance during inter-varsity and other competitions.”

The adoption of ‘Lyon the lion’ as the official mascot will provide a rallying point for the University community. Besides appearing at sports and other inter-varsity competitions, Lyon is also expected to make regular appearances at NTU’s major campus events, such as the annual Open House, Convocation, and the launch of major University initiatives.

Mr Lim Yow Renn, a representative of the NTU Students’ Union and organiser of the mascot unveiling ceremony, said: “NTU has been undergoing several dramatic changes in recent years, by swiftly rising up the international rankings, embracing new approaches to education, and pushing the frontiers in research and innovation. It is therefore imperative that NTU’s new visual identity embodies these changes.”
NTU AND ROLLS-ROYCE IN S$75 MILLION TIE-UP

Rolls-Royce@NTU Corporate Lab will kick start 32 new projects over next five years, tripling existing number of projects between Rolls-Royce and NTU.

Eight years after their first research partnership, NTU and Rolls-Royce are taking their research alliance to greater heights with a new multi-million dollar collaboration.

The centrepiece is the Rolls-Royce@NTU Corporate Lab, which was launched on 23 July 2013 at a joint investment of $75 million by NTU, Rolls-Royce and the National Research Foundation, Prime Minister's Office, Singapore. This unique research tie-up will kick start 32 new projects over the next five years, tripling the existing number of projects between Rolls-Royce and NTU.

The Rolls-Royce@NTU Corporate Lab is the first of its kind in the world with a university, focusing on three core research areas – Electrical Power and Control Systems, Manufacturing and Repair Technologies and Computational Engineering. It is also the first lab to be supported under the National Research Foundation’s newly launched Corp Lab @ University scheme.

Research in these fields are aimed at inventing more efficient and reliable energy delivery systems, developing innovative manufacturing technologies to complement more robust power systems, and extracting information from equipment and processes so that operators can make timely and informed business critical decisions.

NTU President Professor Bertil Andersson said: “This lab will combine the strengths of both organisations – NTU’s cutting-edge research in engineering and science plus our world-class professors, students, and infrastructure, with the strong industrial capability of Rolls-Royce’ leading engineering and services activities for civilian and military customers in over 80 countries.”

The lab will work closely with the Energy Research Institute @ NTU (ERI@N) as well as the University’s four engineering schools: the School of Electrical and Electronic Engineering; the School of Materials Science and Engineering; the School of Mechanical and Aerospace Engineering; and the School of Computer Engineering.

“We are deeply committed to supporting Singapore’s innovation and education goals and extend the Group’s world-class skills, technology and expertise to this unique initiative. NTU and Rolls-Royce share a common vision and awareness of the need to support research and development in fields closely aligned to Singapore’s core strengths. The Rolls-Royce@NTU Corporate Lab is a practical step toward this goal, and we are very pleased to partner with the National Research Foundation and NTU in this exciting and unique opportunity,” said Professor Ric Parker, Director of Research and Technology, Rolls-Royce.
Singapore’s research in 3D printing, also known as Additive Manufacturing, will be boosted by the establishment of a new $30 million research centre at NTU. The new NTU Additive Manufacturing Centre (NAMC), supported by Singapore’s Economic Development Board (EDB), will have the latest 3D printing machines, such as laser-aided machines for building metal parts and objects for industry, and bioprinters which are able to print human tissues.

Additive Manufacturing includes processes that can create 3D products from computer-aided design models by adding materials in a layer-by-layer fashion, much like how current printers print ink on paper. As opposed to conventional manufacturing processes such as machining, casting and moulding, this modern fabrication process can handle complex designs and changes easily without incurring additional costs.

The setting up of the NTU Additive Manufacturing Centre is timely as it aims to address a growing trend in the development and use of additive manufacturing in major industries, such as aerospace, automotive, oil and gas, electronic and bioengineering. Future applications also include organ and tissue printing, food printing and hybrid manufacturing.

Professor Chua Chee Kai, Chair of NTU’s School of Mechanical and Aerospace Engineering who will also be the director of the new centre, said: “The NTU Additive Manufacturing Centre will be keeping Singapore at the forefront of 3D printing technology, developing capabilities not yet available elsewhere in the world.”

“Due to its ability to address volatile industrial demands and because it can adapt easily with evolving technological trends, Additive Manufacturing is the optimal choice of technology in today’s knowledge-based economy,” added Prof Chua, who is the world’s most academically-cited author for 3D printing and a pioneer in Additive Manufacturing with over 23 years’ experience.

Mr Julian Ho, Assistant Managing Director, Economic Development Board, said that the NTU Additive Manufacturing Centre builds on NTU’s strong R&D capabilities to grow a competitive Additive Manufacturing industry in Singapore.

Besides spearheading cutting-edge research, the centre will also groom engineering talents and manpower for the industry. It will have about a hundred researchers and scientists working on dozens of new projects.
NTU TO TRIAL SINGAPORE’S FIRST DRIVERLESS VEHICLE ON THE ROADS

First of its kind in the region test bed could pave way for integration of autonomous vehicles in local transport system.

The electric shuttle NAVIA will provide a safe, reliable and environmentally friendly alternative mode of transportation.

The two-year collaboration will see the Energy Research Institute @ NTU (ERI@N) test and optimise Induct’s electric shuttle named NAVIA and enable it to intermingle safely with traffic in Singapore.

As part of NTU’s drive to be at the forefront of electromobility research, the partnership will also see the development and testing of various new charging technologies such as wireless induction and new super capacitors for electric vehicles. Software and intelligence systems will also be programmed for planned operation within pre-defined routes operating between JTC’s CleanTech One building and the NTU Yunnan Garden campus.

This test-bed is the first of its kind in the region and could pave the way for the integration of autonomous vehicles in Singapore’s transport system to alleviate the “first mile, last mile” transport problem (the first and final legs of a journey, the typical potential bottlenecks in a transportation system) faced by urban cities.

Professor Subodh Mhaisalkar, Executive Director of ERI@N, said the NAVIA platform brings together two state-of-the-art concepts critical for future transportation in urban cities.

“Both concepts of a driverless transport and an efficient electric transport are at the forefront of research for personal transportation, last-mile transportation, and for logistics applications in leading automotive companies around the world,” said Prof Mhaisalkar.

Mr Pierre Lefevre, Induct’s CEO, said: “The synergies between industry in JTC’s CleanTech Park and academia in NTU present a unique opportunity for Induct, both from a test bedding and power management expertise perspective. The planned route between JTC’s CleanTech One and the NTU campus represents a real world scenario of shuttling passengers within a short range, with varying topography and pre-defined routes.”

Passengers shuttling between NTU and JTC Corporation’s (JTC) CleanTech Park could soon be travelling in Singapore’s first clean and green driverless shuttle transportation system.

In partnership between NTU, JTC and Induct Technologies, and supported by the Singapore Economic Development Board (EDB), an autonomous electric shuttle manufactured by Induct is expected to ply the two kilometre route providing a safe, reliable and environmentally-friendly alternative mode of transportation.

The two-year collaboration will see the Energy Research Institute @ NTU (ERI@N) test and optimise Induct’s electric shuttle named NAVIA and enable it to intermingle safely with traffic in Singapore.

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OUR VERY OWN ‘ULTRAMAN’

Alumnus Mr Lim Nghee Huat (Commerce/1975) may be hitting his 60s, but age has never been a barrier for this avid marathoner. He shares more about completing the world’s toughest foot race, the 217km Badwater Ultra-marathon in the US.
Mr Lim Nghee Huat, who just turned 60 in May this year, has a running resume which might leave you speechless. Whilst many younger people balk at the idea of running one marathon, Mr Lim has run a marathon many times over.

MAKING HISTORY
Having conquered numerous ultra-marathons, Mr Lim returned triumphant yet again after completing the world’s toughest foot race, the 217km Badwater Ultra-marathon at Death Valley in the US. It is a non-stop race across the Californian desert, with temperatures reaching 55 degrees Celsius. Not only did Mr Lim complete the race, he made history by being the first runner from Southeast Asia to finish the event in its 36-year history. He came in 58th out of 96 competitors, clocking 42 hours and 34 minutes.

Although Mr Lim, an Editor from MediaCorp’s Chinese Current Affairs, has run longer distances, for example the 218km run during Nanyang Technological University’s Run Round Singapore in 2010, he shares that the Badwater race was the toughest ever.

The race starts at Badwater, Death Valley, which is the lowest elevation in the Western Hemisphere, at 85m below sea level. The race ends at the Mt Whitney Portals at nearly 2530m.

“It’s not just the distance that is tough. In this race, we start from below sea level, and run up through three mountain ranges up to 8,000 feet at the finishing point. We have to face extreme elements such as strong winds, high temperatures, undulating terrain and even sandstorms,” shares Mr Lim.

He explains further that there were seven main difficulties he faced during the run. The distance of 217km; the heat; the strong head winds which were blowing against him; the threat of muscle cramps which could make it impossible to run; nausea; exhaustion, which was the most difficult point of the race for him; and a sandstorm which he faced at the 180km mark.

Many marathons count this race as the ultimate test of one’s ability to accomplish extreme marathons. It is a race by invitation only, for marathoners who have an exceptional track record or who have qualified via another 217km ultra-marathon in Brazil. Less than a hundred runners are invited each year and Mr Lim was the first and only Singaporean invited.

During the race, Mr Lim was supported by a team of five crew members from Singapore, including one of Singapore’s top ultra-marathoners, NTU alumnus Mr Yong Yuan Cheng and Mr Lim’s wife Deborah.

“Being fully prepared is very important for every marathoner, what more if you are running the Badwater Ultra-marathon,” says Mr Lim. “If you don’t prepare well and you don’t have enough mileage, you will end up suffering there. With those kinds of harsh conditions, even completing 100km is extremely tough.”

Having run similar distances for almost seven years, Mr Lim has learnt to ‘read’ his body, allowing him to strengthen himself mentally. “When I’m running 70km, I know that outside of my body, but you have to have the right mindset.”

Although Mr Lim has accomplished one of the most difficult runs, he is not resting on his laurels. In fact he has another near impossible feat on hand – running 1000km over 10 to 12 days.

BEING FULLY PREPARED
Mr Lim was informed by the Badwater organisers that he had been selected, slightly more than four months before the race. As he is a seasoned marathoner, preparing for Badwater meant running more times in a week and covering 50 to 80km every weekend. He would run along Old Upper Thomson Road and Upper Peirce Reservoir with a backpack full of water and energy snacks, weighing around 3kg.

Besides exercising, Mr Lim also paid close attention to his diet. He switched to foods which were richer in carbohydrates, and ate more vegetables and fruits, avoiding oily and junk food.

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>>
when I hit 50km, my body will react. So I have just seasoned myself to overcome that kind of pain and I tell my body to bear with it. I tell myself that I shouldn’t be afraid of the pain, the pain should be afraid of me!” explains Mr Lim.

He stressed that the cultivation of perseverance is not something that one can achieve immediately. It requires a lot of mental and emotional strength. But he shares that as he was running for a good cause, the pain he had to overcome and the sacrifices he had to make were meaningful.

Many people who hear of Mr Lim’s achievements are amazed at how much he has accomplished despite his age.

“Actually during last year’s Badwater Ultra-marathon, there was a runner by the name of Arthur Webb from California who was already 70 years old! He was even amongst the first thirty runners to complete the race. I think age is just a number and nothing is impossible. If you think running such distances is impossible, you would have already encouraged negative thinking,” explains Mr Lim.

Mr Lim also thinks of keeping healthy as a form of love for his family. “If we take care of our health and don’t fall sick easily, it is like a blessing for the family.” Once one has started running regularly, it becomes part of his lifestyle, says Mr Lim. “No matter how busy you are, you should try to exercise at least twice a week. Then you can maintain a sound level of fitness.”

RUNNING FOR CHARITY
Through a number of his ultra-marathon runs, Mr Lim has been giving to charity regularly. Over the years, he has raised funds for causes such as St Hilda’s Community Services Centre and NTU’s endowment fund.

It started in 2004, when Mr Lim was preparing to participate in the 42km Singapore marathon when, at a dinner, then-Member of Parliament Mr Andy Gan appealed to diners to pledge money for each kilometre Mr Lim ran. By the end of the dinner, $20,000 had been pledged. He completed the marathon in about four hours, which raised $20,000 as pledged.

For the Badwater Ultra-marathon, Mr Lim raised more than $130,000 for the Heartware Network, a Singapore charity which works with youth, and St Hilda’s Community Services.

“Actually I aimed to raise $50,000, but I received so much support from very generous organisations and individuals. To be able to sustain a good level of interest in my runs, one must really have a good cause and reason. I have been receiving so much support for my runs from various parties and I hope to be able to give back to society in this way,” shares Mr Lim.

HIGHLIGHTS OF MR LIM NGHEE HUAT’S NUMEROUS ACHIEVEMENTS

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<tr>
<th>Date</th>
<th>Event Description</th>
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<tr>
<td>October 1989</td>
<td>Hawaii Ironman World Championship, USA</td>
<td>11hrs 58mins</td>
<td>fastest Asian finisher outside Japan</td>
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<td>September 2005</td>
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<td>24hrs 44mins</td>
<td>fastest finisher</td>
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<td>Dead Sea Marathon, Jordan</td>
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<td>February 2007</td>
<td>Sahara Marathon, Algeria</td>
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<td>Finisher</td>
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<td>217km Death Valley Challenge, USA</td>
<td>5hrs 49mins</td>
<td>Solo finisher</td>
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<td>January 2009</td>
<td>217km Brazil Ultra-marathon</td>
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<td>January 2013</td>
<td>217km Brazil Ultra-marathon</td>
<td>44hrs 57mins</td>
<td>23rd position (48hr category)</td>
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Ms Low Peck Kem was headhunted and worked in Geneva, Switzerland, as the Senior Director for Human Resource (HR) and Organisational Development at the Global Alliance for Improved Nutrition (GAIN). She has recently relocated back to Singapore, working for GAIN on initiatives to reduce malnutrition in Asia’s impoverished population.

Although you studied Engineering in NTU, what encouraged you to pursue a career in the HR industry? The Engineering degree gives one an excellent foundation in being very systematic and process orientated in thinking and being creative. While I have always encouraged undergraduates that Engineering is an excellent course of study, I have always been fascinated with the HR aspect of work.

With a very engineering mind-set of trying to improve work processes and making work easier or life better for people, I was fascinated with how one could create a work environment which was conducive.

In other words, I see HR as the architect of people’s careers, as the creator of a best in class work environment through good people practices, processes and management systems. With an innate desire to make the world a better place to live in, and the organisation a best place to work in, and with the encouragement and opportunity given to me from one of the Hewlett Packard General Managers, Mr Ho Fatt Lun, it ended up a perfect match of marrying the passion for people

Alumnus Ms Low Peck Kem (EEE/1986) has spent close to 20 years in the HR industry. She advices fresh graduates to be the best that they can be, find meaning in what they do and to learn continuously.
excellence with the practicality of making the work environment a best place to work.

On one hand, I was able to use my engineering knowhow to understand the business needs. On the other hand, I was using my systematic thinking to solve people problems and present in a manner that technical General Managers are able to relate to and understand.

Once HR wins the trust and confidence of the leadership team and is an effective Business HR Partner, HR becomes a credible partner who contributes to the business bottom line, through the people.

What encouraged you to take up a position in Switzerland and what were some of the challenges you had to overcome?

GAIN has a very meaningful and compelling mission: To reduce malnutrition through sustainable strategies aimed at improving the health and nutrition of populations at risk. That was one of the key pull factors as I wanted to make sure that I contribute to the betterment of the world through the work I do.

The global role of Organizational Development and HR where I am required and can make the most impact is based in Geneva, Switzerland. As I am mobile and I enjoy different experiences, I decided to take on the opportunity to experience working and living in a European country with its different culture, in a different industry and very different environment.

When starting my career in Switzerland, I had to quickly adapt and learn from a different work culture, work environment in a European and NGO space from what I was used to in Asia. I also had to start building the networks and contacts in Switzerland since I was new to the region. As my family did not relocate with me, it was a challenge being away from the immediate and extended family and the comfort of being at home.

Whilst there were many challenges I had to overcome, I am grateful for the support from my husband and children who were very encouraging. Many friends and relatives also provided me with all forms of support, such as giving me contacts of their friends in Geneva and telling me about different tools and technology to make my relocation easier. My colleagues and new found friends in Switzerland and France have been warm and welcoming, always including me in their gatherings, making my life in Switzerland more like home.

How is life in Switzerland different from that in Singapore?

Working in Switzerland is quite different from Singapore in many ways. I think that the Swiss have a better balanced concept of work-life harmony. Whilst Singapore takes pride with our high level of efficiency, the Swiss also take pride with themselves with having the most precise timing and excellent train systems.

Productivity
Switzerland’s food and beverage services may not be the fastest, yet they are very efficient. Unlike in Singapore where people seem to be always in a rush, Swiss patrons generally do not rush through a meal and they tend to take their time to eat, socialise and network over a cuppa. The Swiss are also highly efficient with only two to three servers in each restaurant – they are also in a tight labour market and Swiss do not have easy access to cheap foreign labour.

Work Environment
The Swiss work environment tends to be more measured, scheduled, and less rushed than the work environment in Singapore. The Singaporean workforce works the longest hours in the world, and this is at a price of sacrificing some of your personal time, family time and more importantly, creative alone/thinking time.
National Pride
While I am very proud to be Singaporean and proud of many of our Singaporean achievements, there are a lot we can learn from the Swiss – the fact that the Swiss are very proud of their culture and heritage. They take a lot of pride in what they do and what they have accomplished, and in comparison, Singaporeans seem to be more critical of ourselves and do not exhibit that same level of pride which I see in the Swiss. As we are usually rushing to get somewhere, accomplish something or improve somehow, we forget to take time to take stock, smell the roses, take a breather and remind ourselves that we ought to be proud of who we are and what we stand for.

What are your views about the current employment/recruitment industry in Singapore and what can you share about future trends?
The fact that Singapore has been faced with a full employment situation for the past decade means that there will always be more jobs chasing after candidates. With the growth in Asia, the labour shortage will be more pronounced in Asia, especially in Singapore. In order to ensure the continued growth of Singapore, and to maintain the standard of living enjoyed in the past, Singaporeans will have to ensure that they continue to upgrade their skills and remain relevant to the new industry.

Employers will need to look at how to better enhance productivity as the labour crunch will only get worse. NTU graduates would likely enjoy the benefits of the full employment situation in Singapore. In order to remain relevant, Singaporeans would need to learn to adapt and learn to operate in a global economy, and acquire the skills and knowledge to be a global employee where the job market and competition will not be limited to just Singapore.

Given the fluctuating trends in recruitment, how can fresh graduates be well prepared so that they are able to achieve their career ambitions?
The starting point is really to determine what you want to accomplish out of the career.

Fresh graduates should give some thought to their career aspirations, research into the organisations that they would like to be part of, check if their potential employers can provide them with the best chance of achieving their career ambitions, and then give their all to contribute to the organisation.

What would be a very important piece of advice you could give to our fresh/young graduates who have just started working?

Be the best you can be, find meaning in what you do and learn continuously.

As fresh graduates embark on a different phase of their life journey from a student to an economical contributor to the society, they should always hold true to their career aspirations. Simply put, remind yourself of what kind of footprint do you want to leave in the organisation as you embark on this working phase of your life?

While an overseas stint would be very useful, do savour the experience and remember, while working overseas, you are an ambassador representing the institution you graduated from, your country and your culture.

And if you have the skills and abilities which are sought after beyond Singapore, there will be opportunities to get an overseas posting as the world is your market and your opportunities are global.

What are some resume writing and interview tips you could share?

In any job application, make sure you check the job requirements and ensure that you customise each application to suit the job and organisation you are applying for. It is important to make sure that your resume or application can get you through the first round of shortlisting. So, basic criteria like meeting minimum qualifications, requirements, and more, will be critical so that there is a chance for your resume to float up to the top of the stack of applications and impressive enough to snag an interview.

As you prepare for the interview, do your homework prior to the interviews. Check out the company you are interviewing with, check out the interviewers if you know who they are and prepare the questions you may have for the interviewers. Interviewers will always ask if you have questions and do not wait till that question is asked to start thinking on the spot – your state of mind by then is usually in a ‘answer questions mode’ than ‘thinking of what questions to ask mode’ – so, do your homework and prepare a few questions you would like to ask. Interviewers like applicants who are well prepared and are enthusiastic about the job and the organisation they are interviewing for.

During the interviews, dress appropriately but dress comfortably, be honest, show confidence and sincerity. Maintain eye contact and impress upon the interviewers as to why you want to be part of the team and where you see yourself adding value to the organisation. Finally, always follow up after an interview to show interest, and to thank interviewers for their time.

Remember – from the ten or so applicants who may be equally or more qualified than you, why should they choose you? What is your value proposition? So, it would be beyond just the paper qualification that makes or breaks your chances of landing a job.
THE ROAD TO HAPPINESS

Forum participants learn the secrets to happiness from speakers at the 25th Distinguished Alumni Forum.

Organised by the NTU Alumni Affairs Office, the 25th Distinguished Alumni Forum titled ‘Secret to Happiness’ featured four prominent speakers sharing their knowledge on staying happy in today’s competitive society. Held on 14 August, the forum was attended by close to 170 alumni and guests.

Starting the forum session was Associate Professor Maureen Neihart, the Head of the Psychological Studies Academic Group and Office of Academic Quality Management at the National Institute of Education (NIE). She spoke about the determinants of happiness through the use of a happiness pie chart. Genetics, the set point of a person, make up about 50%, life circumstances about 10%, and the activities where we can make choices to improve our mood and our happiness (intentional activities) make up about 40%.

Prof Neihart also introduced some behavioural vaccines for happiness, such as counting one’s blessings once a week for 10 consecutive weeks; spending 20 minutes writing a description of one’s ‘best possible future self’; and thinking of three positive events that have happened every day, for two weeks. She also emphasised that exercise is the most effective behavioural vaccine.

Following Prof Neihart’s presentation, alumnus Mr Neo Eng Chuan (NIE/2009), the Principal Psychologist and Founder of Caper Spring, shared his knowledge on three fundamental human relational needs and happiness. Fundamental human needs include the desire to be known and to know others; the need to be affirmed; and intimacy, which can make one feel the support from others.

Alumna Ms Low Yen Ling (NBS/1996), Chief Executive Officer of Business China then went on to explain the importance of serving and giving back as a means to staying happy. Using the example of her engagement in community service in Singapore, Ms Low, who is also the Member of Parliament at the Chua Chu Kang Group Representation Constituency, shared that she achieves happiness when contributing to society.

“Give it away and you will get more,” said final speaker NTU Provost Professor Freddy Boey. He explained that the best way for one to be happy is to create a positive impact and make others happy. He also emphasised the importance of maintaining close family ties for happiness.

When speaking about happiness at work, Prof Boey shared his three ideas: ‘Keep it simple’, ‘Keep it clear’ and ‘Action’. ‘Keep it simple’ means to find the simplest way to solve a problem and get the work done; ‘Keep it clear’ is to give and receive clear instruction; and ‘Action’ means to get something done rather than not doing anything at all, even when instructions might be unclear.

“Every single happy employee equates to a happy family,” said Prof Boey. He hoped that other than just being happy individuals, everyone would work towards making their colleagues happy as well.

Following the forum session, Prof Neihart shared further insights with NTULink on the pursuit of happiness.

What do you think are important traits in happy people?

Happy people tend to be more optimistic, grateful and active. They make time for pleasure and have a strong social network, among other traits.
How important is it for people to be happy? How does a happy individual behave differently?

It is extremely important to be happy. Happiness or subjective well-being as it’s typically defined, is associated with a wide range of positive outcomes, and also contributes to those outcomes. Specifically, happy people enjoy better health and live longer. They experience better job satisfaction, and are more productive.

When reading motivational books and websites, we are often told to keep life simple, stay cheerful, focus beyond self, and more, in order to be happy. However, in this day and age, it is often easier said than done due to increasing competition and stress. So how can these suggestions really work?

To become happier, it is easier and more effective to take small steps than grand leaps. Begin where you are. If you feel very pressured in your life, then it might be easiest to begin with behavioural vaccines that only require a minute a day.

But, if there is an area of your life that you feel strongly dissatisfied with, then you might reap the most benefit by focusing on that particular area and taking a step or two that will increase your satisfaction in that area. For instance, if you are most dissatisfied with the quality of your relationships, then making an effort to increase the positivity in your social interactions or family relationships might be most beneficial to you.

Another option is to begin where you have the greatest interest. If, for example, you’re a very active person, then you might be most motivated to try behavioural vaccines that get you moving. In other words, finding the right fit between your interests, needs, or lifestyle might help you get started in integrating some of these small changes into your life.

Start small, but think big. Tiny changes can eventually have a big impact.

Would there be any negative consequences if people focus too much on pursuing happiness?

I think it is helpful to remember that we’re not talking about pure hedonism here. The term ‘happiness’ used in research refers to subjective well-being. Is there a downside to being well? I do not think so. Also, it is worth remembering that scientific evidence tells us that there are real benefits to increasing positive emotion in our day-to-day lives. This increase does not just cause us to feel better; it actually builds skills and resources that we can rely on later in times of adversity.

As the Happy Planet Index (HPI) shows, the 2012 HPI report ranked Singapore as the 90th out of the 151 countries with an overall score 39.8. What does this HPI tell us? What can help people feel happier in a fast-paced society?

There have been a few international surveys and reports recently that have rated Singapore quite low amongst countries in happiness or emotion. We have been called the least emotional country in the world. People sometimes want to discredit the surveys, but I do think there is reason for concern. For example, the suicide rate in Singapore into 2012 increased by 29% from 2011. The biggest increase was observed in the 20 to 29 years old age groups. And the World Health Organization estimates that in just seven or eight years, depression will affect one in three people worldwide. That increase is expected to have a big impact on productivity and healthcare systems.

Singaporeans have achieved a great deal of success because of their talent and hard work. But moving forward, working harder cannot be our only strategy.
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FOR EVERLASTING FRIENDSHIP

Alumni from Classes of 1959 to 1969 return to campus for a memorable reunion with former classmates.

Organised by a group of supportive alumni from the Classes of 1959 to 1969, the grand reunion held at NTU’s Nanyang Auditorium Foyer on 31 August attracted more than 250 alumni and guests.

A forum session was included in the reunion event. Participants picked up valuable knowledge on keeping a healthy heart from Dr Wang Xiaolan, a senior physician at NTU’s Traditional Chinese Medicine clinic. They learnt more about the kinds of food and lifestyle which are good for the heart. For example, hawthorn berry which is high in vitamin C, could be mixed in water or soup for drinking, benefitting those with hypertension or heart disease.

This reunion celebration was made more significant and extra special as 12 alumni couples from these classes renewed their vows. The renewal of vows ceremony was presided by Justice of the Peace Mr Koh Lian Huat, who is also an alumnus from the Class of 1964.

Alumni couple Y.B Tan Sri Dato’ Seri Law Hieng Ding (Commerce/1960) and Mrs Law (Arts/1961) made a special trip from Malaysia to join in the reunion. Mrs Law shared: “We have been happily married since 1964. This renewal of vows ceremony is very heartwarming and meaningful to me. I am also glad to be able to meet so many of my former classmates.”

Guest of Honour, NTU Provost Professor Freddy Boey thanked all the alumni for taking the time to return to campus for the special reunion. “As a university, we cannot receive a greater compliment than having our own alumni here,” he said. “NTU remembers and honours its past even as it forges ahead to rebuild itself into a great global university.” Prof Boey also updated the alumni on NTU’s latest developments and achievements.

Chairman of the reunion organising committee Mr Ang Swee Tian (Commerce/1969), congratulated the alumni couples and thanked the committee members’ and alumni for their contribution and continuous support.

A fundraising initiative was also held in conjunction with the reunion. At the end of the reunion lunch event, more than $700,000 (with government matching) had been raised.
人生的路上会有美好也有曲折，也会有知心相伴的爱人和朋友。经历了这许许多多的第1届至第10届南大校友们，于2013年的8月31日携家人一起，再次回到母校参加聚会，体会到母校带给他们的激情与欢乐。

为了使活动更加丰富多彩，校友事务处为校友们安排了由经验丰富、资历深厚的南大中医王晓兰医师举办《从心看养生》的中医讲座。王医师介绍了中医如何看待心脏与养生的关系，而这也是校友们非常关心的课题。她向校友们讲述了食疗养心的小常识，如用山楂泡水、炖汤时放入山楂片，等等。讲座使大家受益匪浅。

大会贵宾南大常务副校长兼教务长梅彦昌教授在致词时表示，南大校友是大学的宝贵财富，他很感激校友们重返母校，欢聚一堂。他还向大家介绍了南大的最新发展，南大不断上升的排名，南大如何积极同知名企业（如劳斯莱斯、洛克希德马丁、BMW等公司）进行合作。南大李光前医学院的首批学生也已入学，该医学院将培养新加坡的新一代医生。

在聚会上，南大第1届至第10届校友聚会工委会主席汪瑞典校友感谢校友们积极参与这个盛会，也感谢工委会委员们的努力和支持。他在致辞时说：“我们会忘，是南大培育了我们；是自强不息、力求上进的‘南大精神’在我们人生前进的道路上时时刻刻激励着我们！”

这次活动不仅仅使老朋友们再次相聚在一起听讲座话家常，在老同学的见证下，也对校友夫妇提供了再次表达爱意与山盟海誓的机会。大会特别为校友夫妇安排了重温婚姻誓言仪式，由聚会联合工委会副主席、太平绅士（商学院/1964）许连发校友主持。当天，校友夫妇们相对站立，双手紧握、宣誓不离不弃、相伴终生的场面实在令人感动，成为校友聚会上最美丽的一幕。刘贤镇（商学院/1960）校友和他的太太魏顺莲女士（1961年毕业南大史地系的校友）特地从马来西亚赶来参加聚会并重温婚姻誓言仪式。魏校友说：“我们1964年就结婚了，这个重温婚姻誓言仪式，我们觉得很温馨感人。这次能有这么难得的机会见到老同学们，我们也很高兴。”

当天，南大在籍学生为大家呈献歌舞表演，王勇冰（商学院/1972）校友带领的校友合唱团也为大家带来五首歌曲联唱。对配合大会举行的校友捐献活动，校友们响应热烈，截至聚会当天总共募集了700,000新元（包括政府一元兑一元的资助）。

当天的聚会共吸引了250位校友、家属及嘉宾出席。出席活动的贵宾还有南大副校长余明华教授和南洋大学毕业协会会长谢万森校友及夫人。
01. 南大中医师王晓兰医师为校友们介绍了中医养心常识。

02. 大会贵宾南大常务副校长兼教务长梅彦昌教授欢迎校友们的到来；并在致词时表示，南大校友是大学的宝贵财富。

03. 校友们借这次难得的机会与老朋友畅谈叙旧。

04. 为了这难得的相聚、不变的友谊和母校的昌盛，校友们举起酒杯记住这一刻。
LET’S PARTY!

Night of great celebration for NTU’s newest graduates from the Class of 2013.

The Welcome Class 2013 Alumni Party held at Zouk on 3 August attracted more than 1000 alumni, guests and staff who gathered to welcome the University’s newest graduates as alumni.

NTU President Professor Bertil Andersson, who was Guest-of-Honour at the event, congratulated the new alumni and even sang parts of the song ‘Hotel California’ – a popular 70s song by ‘The Eagles’. He made special mention of the famous line, “You can check out any time you like, but you can never leave.”

“That’s the saying, when you are an NTU graduate, you can never leave,” quipped Prof Andersson. Prof Andersson then proceeded to launch the party together with four alumni representatives from the Class of 2013, and even led the dance on stage.

Mr Chua Shi Kiat, who just graduated from the School of Biological Sciences, shared: “I like NTU’s learning environment the most. The facilities are constantly being upgraded, such as more study areas and new tutorial rooms. Current and incoming students will be able to enjoy these upgraded facilities which will make learning an enjoyable experience.”

Mr Daniyal Haider Sangil from Pakistan who graduated from the School of Mechanical and Aerospace Engineering enjoyed the welcome party tremendously. “When the party picked up momentum, it became one of the best I had ever attended. It was such a delight watching Prof Andersson dancing on stage, which urged all of us to party like never before,” he said.

The night also featured dance performances by students from NTU’s Cultural Activities Club which lead to the alumni and guests taking to the dance floor, grooving to the beat.
01. NTU President Prof Bertil Andersson launches the Welcome Class 2013 Alumni Party together with four alumni representatives. They are, from left, Ms Tran Vu Thuy An (NBS), Mr Daniyal Haider Sangil (MAE), Ms Suerya Bte Sapuan (HSS) and Mr Chua Shi Kiat (SBS).

02. Prof Andersson and Mrs Andersson (2nd from right) take to the dance floor much to the delight of the audience.

03. Alumni capture special moments with Prof Andersson on their cameras.

04, 05. Alumni and guests party the night away!
New alumni association launched for HSS alumni to stay connected with NTU and their fellow alumni.

Established in 2004 and one of the NTU’s younger schools, the School of Humanities and Social Sciences (HSS) now has an Alumni Association it can call its own. Launched on 1 August, the NTU School of Humanities and Social Sciences Alumni Association (HSSAA) will facilitate the strengthening of ties and encourage networking opportunities amongst the alumni.

At the launch event, Ms Wong Yi Wei, President of HSSAA thanked all who had supported the formation of the association and made it a success. She recalled the AA’s first committee meeting in late October last year, when it had started with just four committee members, although they had many exciting ideas. She also congratulated the School’s recent graduates, and invited them to suggest the kind of events they would be interested in attending.

Guest-of-Honour Professor Alan Chan, Dean of the College of Humanities, Arts, and Social Sciences expressed his delight in seeing alumni coming back to support the University. He said: “We are in a very young school, but the achievements the School has made over the last few years are nothing short of spectacular. Today NTU is no longer an unfamiliar name.”

Prof Chan also hoped that all alumni are as proud as he is of the University’s achievements which might not have been possible without the good work of HSS alumni. “This is only a beginning. I will see the HSS Alumni Association grow from strength to strength,” added Prof Chan.

Throughout the evening, alumni were comfortably chatting with each other. Ms Christabelle Soh (HSS/2010), who attended the event with six of her former classmates, said that it was a good opportunity to catch up with other friends she had lost touch with.

Committee member Ms Ng Hwei Yun (HSS/2010) was very pleased at seeing so many HSS alumni supporting the launch event. She said: “The response from our alumni is better than what we expected. I am happy to have the opportunity to participate in NTU activities and I hope that the alumni association can help us strengthen our bonds with our school.”

Jointly organised by the NTU HSSAA and NTU Alumni Affairs Office, the event at Shuffle Bistro Bar attracted 170 alumni and guests.
USA-WEST ALUMNI ASSOCIATION HOSTS NTU STUDENTS

NTU’s Renaissance Engineering Programme students welcomed to the University of California Berkeley for their 2013 fall semester.

Campus life at the University of California Berkeley (UC Berkeley) is full of learning opportunities and for students to interact with bright minds from all around the world at the heart of Silicon Valley. Yet, for an international student, it can also be a huge challenge settling in a new environment miles away from home.

Just a few days after arriving for their 2013 fall semester, 33 NTU Renaissance Engineering Programme (REP) students were hosted by the NTU Alumni Association (USA-West) at Anna Head Alumnae Hall, UC Berkeley. The event aimed to welcome all NTU REP students to UC Berkeley and the San Francisco Bay Area, and to make them feel at home within the overseas NTU family although away from home.

Held on 24 August, the event was also attended by Professor Kam Chan Hin, NTU’s Associate Provost for Undergraduate Education; Professor Teoh Swee Hin, Director of NTU REP; Mr Christopher Cheang, Consul-General of Singapore in San Francisco; Mr Julius Chew, President of the NTU Alumni Association (USA-West); faculty and students from both NTU and UC Berkeley.

For the REP students, although some of them might have been feeling a little jet-lagged, the gathering was a warm and interactive event where they could share experiences, ideas and gain good advice. On behalf of all the REP students, Mr Chen Xianyong expressed his appreciation to everyone who had assisted in organising the very successful event.

REP is a dual-degree programme which awards a Bachelor of Engineering Science coupled with a Master of Science in Technology Management at the end of four and half years. It is an elite programme targeted at top students, with an intake of an exclusive cohort of 50 of the brightest students per year.

The students will be spending a year at UC Berkeley which will include an industrial attachment with innovative companies in Silicon Valley, Bay Area.

01. The NTU REP students, who will be spending a year in UC Berkeley, feel very much at home at a gathering hosted by the NTU Alumni Association (USA-West). | 02. Associate Provost for Undergraduate Education, Prof Kam Chan Hin speaking to students and guests.
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Venue: The Fullerton Hotel, Singapore

www.NanyangEMBA.com/MeetOctober

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Upcoming attractions for Alumni!

12 October 2013
NTU Alumni Homecoming
南大校友回校日

22 November 2013
Launch of NTU School of Art, Design and Media Alumni Association
南大艺术、设计与媒体学院校友会成立大会

23 November 2013
Classes of 2006-2010 Reunion Celebration
庆祝2006-2010毕业班校友聚会

29 November - 2 December 2013
NTU Alumni 4D/3N Discovery Tour to Ho Chi Minh City, Vietnam
南大校友4天3夜探索越南胡志明市之旅

7 December 2013
NTU Alumni Life Style Workshop – Create Your Own Canvas Bag
南大校友时尚生活学习坊－制作属于您的帆布包

15 December 2013
NTU Alumni Movie Screening
南大校友电影欣赏

Information is correct as of press time. Events and dates may be subject to change.

To sign up for or enquire about any of the events, email alumniaffairs@ntu.edu.sg or call +65 6790 4875 / 4434
For a regular, monthly update of events, check out http://www.ntu.edu.sg/Alumni/Pages/Events.aspx
To subscribe to ClassACT e-zine for regular event updates and more, go to http://www.ntu.edu.sg/newsletter/managemysubscription.aspx
LOOK AND FEEL GOOD!

NTU alumni may apply for the NTU Alumni Card to enjoy a host of discounts and privileges. In this issue, we feature some exciting deals in the beauty and health, fashion, and gifts categories.

NTU ALUMNI CARD – YOUR IDENTITY, YOUR LIFELONG CONNECTION

As an NTU Alumni Cardholder, you will enjoy exclusive privileges and discounts from various merchants. Other than some of the deals featured here, check out the website www.ntu.edu.sg/alumni/alumnicard for other exiting deals which are updated frequently.

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New app shows offers for NTU Alumni Card holders
You may now register your NTU Alumni Card via the NoTikum iPhone/Android app or via www.notikum.com. This new app acts as your shopping concierge by remembering your NTU Alumni Card and showing you available offers nearest to your location.

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NTU Alumni Club
Class of Your Own
The opportunity to immerse in hostel life is greatest at NTU compared to any other universities in Singapore. That sets NTU apart. Being away from home requires one to develop independence, resilience, social skills and certainly self-discipline, all traits that contribute to sustained and long term personal success.

I stayed at the hostels throughout my four years at NTU, including the honours year. This truly gave me an opportunity to be away from home most of the time and be more independent, and yet still stay in touch with home because being away makes you treasure time with your family more. The reduced creature comforts, the proximity to the learning places and probably time saved from commuting all went along to create a better and more focused learning experience and more clarity of purpose.

After spending more than ten fulfilling years in technical and managerial roles in large multi-national corporations, I took many by surprise by leaving behind the corporate world to pursue a personal interest and spending more time with my family when my first child was less than a year old. My new career as a freelancing professional conference interpreter gave me satisfaction both at work - where I have interpreted professionally for people such as Mr Jim Rogers the investor extraordinaire and Mr Hirotake Yano, the owner of the 3500-store Daiso – and at home, where the extra time I had when not working meant a lot of time to spend with my son. My wife and I also went on to have two other children thereafter.

Today, I am proud to be one of the only few professionals in Singapore who can interpret simultaneously in three languages namely English, Mandarin and Japanese at native equivalent levels. I have been invited to travel throughout Asia to interpret at various events. Although never formally trained in languages or translation except for studying English (General Paper), Chinese and Japanese in Junior College, conference clients have engaged me for interpreting due to my technical and managerial experience in the corporate world, together with a Master of Computing from NUS and other qualifications.

After some time as a freelancer and enjoying the experience as well as the additional time with my children, it may be about time I returned to a corporate job. I will be seeking some challenges that truly interest me and where my past experience can contribute meaningfully.

I love to travel, and have lived abroad for some years under a scholarship in Japan right after graduating from NTU. It was a truly different experience to be away from home for a long time in an era where the internet had yet to become what it is today, which meant that you would not be able to communicate a lot with your family. I have also had the opportunity to travel throughout Asia including to China, Hong Kong, Macau, Phuket, Bangkok, Bali and East and West Malaysia, because of my career.
I loved the pulse of NTU, and being in the midst of all its possibilities. So much happens here every single day. As students, we had endless resources to pursue anything that we wanted to read. Whether it was taking a particular course with global experts, interacting with renowned speakers, scholars, or government officials at all levels, organising a conference, attending a forum, or travelling to the far corners of the world, anything was possible! Just as important was meeting the people who shared all of this with me – my incredible classmates, faculty, staff, and administrators, and the guests that visited NTU as visiting fellows in various capacities.

Being on campus, you constantly hear foreign languages being spoken. It makes for a powerful reminder of how international the student body is, and the extent of the impact that each class will have on the society, after graduation. It is truly special to be a graduate student at NTU.

Many of the courses I took taught me about leadership through building relationships. These experiences have significantly helped me post-NTU days. Classes offered strong tactical skills, such as managing operations, communicating, and building good relationships with various business and government organisations. Today, as a political consultant for public sector clients, I use many of these skills regularly, especially the ability to communicate effectively, recognise how to quickly gain informal authority, and how to build strategic relationships.

Looking back, NTU is the place where I honed skills, built up connections and was transformed to be a full-fledged professional. Thank you, NTU.

Ms Yang Yi (RSIS/2008)

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Ms Myint Zu Myaing (MAE/2010)

It is my honour to be an NTU alumnus since 2010. NTU holds a special place in my heart. My days in NTU were filled with days of exploring new concepts and facing exciting challenges. I found my soulmate, Khun La Win Myint who is also an NTU alumnus from the Class of 2009. We met at NTU, studied at NTU and even got
married at NTU. The University is indeed our second home.

I also received the opportunity to pursue my PhD which I am currently pursuing at the School of Biological Sciences since August 2011. As a PhD student, the experiences that I gain are invaluable especially in my specialised virology research area. Getting the chance to interact with a number of world renowned scientists was one of my many unique experiences.

I enjoy reading and travelling too. The NTU libraries have various reading materials which interest me. I have been to places such as Malaysia and Indonesia. Moreover, we visited Chaing Mai, Thailand for our honeymoon.

As a Class Agent, I hope to be able to encourage my fellow alumni to stay connected with NTU and to build a long lasting relationship with our alma mater. I keep in touch with my friends through social media such as Facebook and Viber. In addition to that, activities like the annual alumni homecoming give me the opportunity to interact other alumni.

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**Mr Yoon Seung Pyo (RSIS/2010)**

When I was young, I enjoyed tremendously my times reading books and playing the piano. When I started my career, I realised that being a student was what I was always looking forward to and which was for me, the most enjoyable identity in the world. What’s more, I think people can never stop learning.

When pursuing my Master’s degree in Singapore, I stayed here for one and half years to get prepared and finally completed my Masters from NTU’s RSIS in 2010.

Singapore is a beautiful small island which has summer all year round. When I came to the NTU campus, I could sense myself breathing in fresh air as the campus is so green and beautiful! My classmates were a bunch of young and energetic students and we spent a lot of time together playing and studying together. It was a good experience learning from one another, as we were from different countries, cultures and backgrounds.

I initially used to think that being a student was easy. But I was proven wrong when given the thesis to prepare. I had to struggle a little due to my command of English and there were never-ending presentations and assignments.

But I am glad I finally made it! I graduated from RSIS and returned to my home country, starting a new life. What I learnt from NTU is a valuable asset for me. I am now working in Samsung iMarketKorea as an assistant manager for global trading. Sometimes when I walk in the streets of Seoul, I remember the young faces of my friends, the great food of Singapore and the beautiful green campus. I do miss NTU.
Mr. Tian Xiang Ping 田祥平先生 (NIE/2013)

We come from Chongqing, and we are 24 educationists who are able to study at the NUS National Institute of Education as one of the top universities in Asia. We have graduated successfully.

After one year of study, we have truly benefited a lot. Initially, we thought that we were late to enter college, but now we think that it is not late at all. During our study, we faced many unexpected difficulties and setbacks. However, because of the encouragement and help from all 24 of us, we were able to overcome them all.

We believe that "everywhere is a study place." We learned not only from our teachers and classmates, but also from all our interactions and experiences. We were enriched by each other's backgrounds, experiences, and methods of work. This process has made us wiser.

In this place, I would like to express my thanks to the National University of Singapore and the National Institute of Education. It is you who keep our enthusiasm for learning alive, and allow us to return to school in the truest sense of the word. I owe you all a great deal.

I sincerely thank all of you, and I also express my gratitude from the bottom of my heart.
### ALUMNI PARTICULARS UPDATE

更新校友个人资料

To help us serve you better, kindly update your particulars, and send the form to us via fax, email or mail:

为了使我们更好的为所有校友服务，请您通过电邮、传真更新您的个人资料，或将此页寄到下列地址：

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60 Nanyang View #02-08  
Nanyang Executive Centre  
Singapore 639673

If you receive duplicate copies of NTULink, or know of fellow alumni who are not receiving the magazine, please call us at +65 6513 8073 or email us at alumniaffairs@ntu.edu.sg

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#### FOR CHANGE OF ADDRESS 更新地址

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<th>Full name as in NRIC (Mr / Ms / Dr / Prof / Others) 姓名（先生／小姐／博士／教授／其他）</th>
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<tr>
<td>NRIC / Passport No. 身份证／护照号码</td>
</tr>
<tr>
<td>Course / Year of Graduation 院系／毕业年份</td>
</tr>
<tr>
<td>Home Address 家庭住址</td>
</tr>
<tr>
<td>Postal Code 邮政编码</td>
</tr>
<tr>
<td>Telephone (H) 家庭电话</td>
</tr>
<tr>
<td>Mobile Phone 手机号码</td>
</tr>
<tr>
<td>Email 电邮地址</td>
</tr>
<tr>
<td>Date of Birth (DD / MM / YY) 出生日期（日／月／年）</td>
</tr>
<tr>
<td>Nationality 国籍</td>
</tr>
<tr>
<td>Marital Status 婚姻状况</td>
</tr>
<tr>
<td>Race 种族</td>
</tr>
<tr>
<td>Religion 宗教</td>
</tr>
</tbody>
</table>

#### FOR EMPLOYMENT UPDATE 更新就业信息

| Company Name 公司名称 |
| Company Address 公司地址 |
| Postal Code 邮政编码 |
| Telephone (O) 办公室电话 |
| Fax 传真 |
| Designation 职务 |
| Industry 行业 |

#### ALUMNI FAMILY MEMBERS 校友家庭成员信息

| Name 姓名 |
| NRIC / Passport No. 身份证／护照号码 |
| Relationship 与本人关系 |

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Please tick here if you wish to remove the names of alumni family members from the NTULink mailing list.  
如果您希望将上述家人的姓名从NTULink 邮递名单除名，请在空格内打勾。
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