I am delighted to present this report that offers an overview of the endeavours of our diverse NUS community – students, faculty and staff, alumni, benefactors and friends. The year's highlights reflect our people's quest for excellence in education, research and enterprise, as we serve country and society.

In pursuing global excellence in imparting, creating and applying knowledge, our shared aspiration is to move NUS up from a good, respected university to one that is great. An integral part of our University's transformation is growing 10 great programmes or departments in 10 years, or G-10-10. At the heart of this endeavour is our people reaching for three bests – to be our best, to help others be their best, and to recruit the best. The push towards G-10-10 promises to energise and help drive NUS towards new peaks of global excellence.

We are also developing initiatives that will strengthen synergies between research and education, as well as enhance the intellectual energy and excitement on campus. The residential colleges at University Town@Warren, in close proximity with the National Research Foundation's Campus for Research Excellence and Technological Enterprise, are exciting developments adding a new dimension to our learning and living environment.

As we strive to make a difference, I am grateful for our community's efforts and dedication. Together, we can build NUS as a transformative place where our people reach beyond ourselves – to explore and discover, to grow and give back.

Shih Choon Fong
President
GLOBAL INITIATIVES

• The 2nd Presidents’ Meeting of the International Alliance of Research Universities (IARU), an alliance of 10 leading research universities, was hosted by The Australian National University in March 2007. The meeting agreed to proceed with the Alliance’s Global Change research projects on the topics of Longevity and Health; Security; Energy, Resources and Environment; and Movement of People. NUS, ETH Zurich and the University of Tokyo are the lead universities for Energy, Resources and Environment.

• The IARU Presidents also discussed ongoing multilateral projects as well as new initiatives and directions. Projects aimed at developing benchmarking and best practices as well as building networks among research students and faculty were endorsed; these projects cover Understanding Women in Universities around the Globe, Graduate Education, and Undergraduate Education. New initiatives to be explored include sharing information and best practices on campus sustainability as well as a global summer college.

• The Copenhagen-NUS-Yale Summer School: Southeast Asia in Context at NUS brought together 36 students from three IARU partners – University of Copenhagen, NUS and Yale – for lectures and field trips.

• The Conference on Cancer of the Global Enterprise for Micro-Mechanics and Molecular Medicine (GEM4), a network of 14 major research institutions, was its first international conference organised by the GEM4 Secretariat hosted by NUS. The distinguished list of speakers included three Nobel Laureates. Coinciding with the conference was the 2nd GEM4 Summer School, on Cell and Molecular Mechanics in BioMedicine, held at NUS. The multidisciplinary course drew about 100 graduate students and speakers from 10 countries.
• The APRU World Institute (AWI), a think-tank under the umbrella of the Association of Pacific Rim Universities (APRU), organised workshops bringing together top minds to engage on issues of global importance. The first workshop – *Climate Change: Challenges and Strategies for Sustainable Cities* hosted by the University of California, San Diego’s Scripps Institution of Oceanography – concluded with participants recognising the value of sharing best practices among academics and policy makers. NUS President Prof *Shih Choon Fong* chairs the AWI governing board.

• The second AWI workshop – *The Role of Universities in Addressing Emerging Public Health Threats in the Asia Pacific Region* – was held at Peking University. Senior Deputy President Prof *Tan Chorh Chuan*, spoke on Singapore’s experiences during the SARS outbreak in 2003, when he was the nation’s Director of Medical Services. President Prof *Shih Choon Fong* participated in the University Leaders Panel Session involving leaders of seven universities – Sydney, NUS, Peking, Johns Hopkins, Washington, Chinese University of Hong Kong, and Shandong – as well as the Institute of Medicine of the US National Academies.

• A highlight of APRU’s 11th Annual Presidents Meeting at Zhejiang University, which drew 25 university presidents and 68 delegates from member universities and leading Chinese universities from Project ‘985’, was the APRU Forum on *Higher Education and Emerging Economies: Developments in the Asia Pacific and International Cooperation in China*. NUS President Prof *Shih Choon Fong*, APRU’s Chairman Emeritus, was the moderator for a keynote address by Prof Tu Weiming, Director of Harvard-Yenching Institute, who spoke on the humanistic spirit in the 21st century. The meeting and forum were organised jointly by Zhejiang University and the APRU Secretariat based at NUS.
• An initiative between NUS and Cambridge University for joint faculty appointments, with NUS as the home university, will enable young academics to develop their careers more effectively and rapidly than if fully resident at NUS.

• India Research Initiatives was set up under the Office of Deputy President (Research and Technology) to facilitate research collaboration with top Indian universities and research institutes.

• The Lee Kuan Yew School of Public Policy became the first institution outside Europe and North America to join the Global Public Policy Network, an alliance of leading institutions comprising the London School of Economics and the Institut d’Etudes Politiques de Paris.

• The inaugural Asia Pacific office of the Council for Advancement and Support for Education (CASE) opened at NUS in May 2007. Headquartered in Washington DC, CASE is a global organisation with a membership of over 3,300 educational institutions.

• NUS hosted the 2nd Asia-Pacific Association for International Education Conference and Exhibition which saw participants representing over 280 institutions from about 40 countries.

• The Law Faculty was selected by the World Trade Organization (WTO) to host the first Asia-Pacific Regional Trade Policy Course in Asia. The 12-week course provided intensive training in WTO law and policy for 28 government officials from the Asia Pacific region.

• NUS Business School hosted Asia’s first Graduate Business Conference, through joint efforts with the Graduate Business Forum, a global network of student leaders around the world.

• The Asian Society of International Law, a centre of activities among international law scholars and practitioners to promote awareness and respect of international law in Asia, hosted its first international conference at NUS’ Bukit Timah Campus.

• The Chemistry Department hosted the 9th International Symposium for Chinese Organic Chemists and the 5th International Symposium for Chinese Inorganic Chemists in 2006, the first time these international symposia were held in Singapore.

• A series of training programmes on urban planning and management was conducted for senior officials from China’s Jiangsu province. Nanjing’s party secretary Luo Zhijun led the first delegation.
• An agreement inked with King Abdullah University of Science and Technology, a new graduate level university in Saudi Arabia with a multi-billion dollar endowment from King Abdullah, paves the way for research collaborations as well as exchange of faculty, post-doctoral researchers and students.

• In collaboration with Sweden’s Nobel Museum, NUS hosted *Cultures of Creativity: the Centennial Exhibition of the Nobel Prize.* Launched in 2001 to mark the Centennial of the Nobel Prize, the three-month exhibition at NUS was the 12th stop on its 15-city tour.

**Global Standing**

• The 2006 global ranking of universities by *The Times* of London placed NUS:
  ~ 19th overall and 2nd in Asia (with University of Tokyo)
  ~ 8th for Technology
  ~ 9th for Biomedicine
  ~ 11th for Social Sciences
  ~ 22nd for Science as well as for Arts and Humanities

• *Financial Times* ranked NUS Business School among the world’s top 29 business schools for its Executive Master of Business Administration (EMBA) programmes. Its MBA programme was also rated 5th for international mobility, a measure of alumni’s employment mobility. In the 2006 *QS Top Universities Survey* the MBA programme was ranked top in Asia Pacific and the most preferred school for recruitment.

• In the ‘Universities’ category of the *Reader’s Digest 2007 Trusted Brands* poll, NUS won the Platinum award, which is given to brands achieving a score of at least double their nearest competitor’s.
STUDENTS

Enrolment
Total enrolment: 29,305
Undergraduates: 22,689
Graduate students: 6,616
International students: 9,880

<table>
<thead>
<tr>
<th>Faculty/School/Institute</th>
<th>Undergraduate</th>
<th>Graduate</th>
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<tbody>
<tr>
<td>Arts and Social Sciences</td>
<td>5,239</td>
<td>702</td>
</tr>
<tr>
<td>Business</td>
<td>1,474</td>
<td>544</td>
</tr>
<tr>
<td>Computing</td>
<td>1,495</td>
<td>333</td>
</tr>
<tr>
<td>Dentistry</td>
<td>148</td>
<td>68</td>
</tr>
<tr>
<td>Design and Environment</td>
<td>1,499</td>
<td>353</td>
</tr>
<tr>
<td>Engineering</td>
<td>6,108</td>
<td>1,925</td>
</tr>
<tr>
<td>Law</td>
<td>862</td>
<td>196</td>
</tr>
<tr>
<td>Science</td>
<td>4,459</td>
<td>967</td>
</tr>
<tr>
<td>Yong Loo Lin School of Medicine</td>
<td>1,229</td>
<td>593</td>
</tr>
<tr>
<td>Yong Siew Toh Conservatory of Music</td>
<td>176</td>
<td>1</td>
</tr>
<tr>
<td>Lee Kuan Yew School of Public Policy</td>
<td>–</td>
<td>190</td>
</tr>
<tr>
<td>NUS Graduate School for Integrative Sciences and Engineering</td>
<td>–</td>
<td>128</td>
</tr>
<tr>
<td>Institute of Systems Science</td>
<td>–</td>
<td>344</td>
</tr>
<tr>
<td>Regional Language Centre</td>
<td>–</td>
<td>20</td>
</tr>
<tr>
<td>Singapore-MIT Alliance</td>
<td>–</td>
<td>120</td>
</tr>
<tr>
<td>Temasek Defence Systems Institute</td>
<td>–</td>
<td>118</td>
</tr>
<tr>
<td>The Logistics Institute-Asia Pacific</td>
<td>–</td>
<td>14</td>
</tr>
</tbody>
</table>

Class of 2007
Bachelor degrees: 5,617
Total higher degrees: 2,097
~ Graduate diplomas: 298
~ Master degrees: 1,522
~ PhD degrees: 277
The Citrus Fresh team, champion at the L'Oréal Brandstorm 2007

Vannathi S, first Singaporean to win the Witness Examination Competition

TeamNUS triumphs at Dragon Boat Festival 2007

Winning team at the McGill Management International Case Competition

Vanath S, first Singaporean to win the Witness Examination Competition

Students and Mr Lim Swee Say, Minister in the Prime Minister’s Office, folding paper cranes at Breakers Day

Rag and Flag 2006 raised $380,000 for charitable causes
Examples of Student Achievements and Service

• **Mahesh Uttamchandani** (Science) has developed novel methodologies for rapid enzyme profiling. His team, *ND-array Technologies*, won the 2006 Lee Kuan Yew Global Business Plan Competition, beating 219 teams from 19 countries and pocketing a US$20,000 prize. As winners, they can also tap on the S$100,000 HSBC Youth Enterprise Fund.

• An Industrial Design team comprising **Tan Yong Kai** and **Priscilla Lui** (Design and Environment) won the Gold Prize at the International Design Competition 2006, Japan, with their invention, *Dandella*, a GPS tracking gadget.

• **Valerie Teo** (Medicine) won the Gold Medal for Bowling (Women’s Doubles) at the 2006 Asian Games in Qatar. **Adrienne Ser** (Arts and Social Sciences) clinched the Silver Medal in the women’s 10m air-rifle team event.

• **Vivy Suhendra** (Computing) was awarded a 2006 Fellowship by Microsoft Research Asia. The award supports talented PhD students with potential to become future leaders in computer science related research.

• **Gao Xiaoli** (Dentistry) received an International Association for Dental Research/Lion Dental Research Award for young investigators to fund a research project in behavioural sciences and oral health services.

• **Vanathi S** (Law) is the first Singaporean to win the Witness Examination Competition at the 29th Annual Australian Law Students’ Association Conference.

• **Charlene Lin Shilin** (Engineering) received the IMechE Project Prize as well as the 2006 Frederic Waldron Best Student Prize.

• **Citrus Fresh**, a team comprising **Eliz Tan**, **Maurice Png** and **Tran Thi Thu Huong** (Business) emerged the international champion at the L'Oreal Brandstorm 2007 in France.

• **Sharon Poerwanto**, **Anusha Bhagnani**, **Chen Jianwen** and **Wang Zhenghao** (Business) formed the winning team at the McGill Management International Case Competition 2007.

• **Lim Yew Jin**, **Lim Zhan Wei** and **Travis Ho** (Computing) emerged top in the 2007 Open Real-Time Strategy Artificial Intelligence Competition at the Conference on Artificial Intelligence and Interactive Digital Entertainment at Stanford University.
• **Tan Yong Kai** (Design and Environment) received the iF Concept Award Product 2007 prize at the iF International Forum Design in Germany.

• **Ling Yunzhi** (Music) won first prize at the Gisborne Music International Competition 2006 in New Zealand.

• Two teams swept the first and third prizes at Peak Time 2007 organised by the Stockholm School of Economics. The winning team comprised **Lee Jian Hui** (Arts and Social Sciences), **Adi Wijaya** (Business) and **Veronica Chau Jinqi** (Science). The other team was made up of students on the NUS Overseas Colleges programme in Bio Valley and Stockholm – **Adrian Zhou**, **Lawrence Ng** and **Ramkumar Shankar** (Engineering) and **Brandon Lee** (Business).

• **Danny Tan** (NUS College in Bio Valley; Design and Environment) founded **Neuthao Technologies**, which emerged second runner-up in the Drexel Business Plan Competition for a business plan to commercialise technology for a biomedical device with promise to help control epileptic seizures. His team-mates were Andrew Khair (Drexel University) and Terence Chia (Wharton Business School).

• **Liu Bolun**, **Hou Xuan** and **Wang Hao** (Science) comprised a team that was an Outstanding Winner in the 2007 Mathematical Contest in Modeling of the US-based Consortium for Mathematics and its Applications. The contest attracted a field of students from over 500 institutions around the world.

• **Tan Ting Feng** and **Seah Yew Keng** (Engineering) won the Philips Young Innovator’s Challenge with their device which allows diabetic patients to effortlessly check their own blood sugar level and keep track of their medication.
• **Yao Yao** (Music) won Special Prize at the 4th International Johann Matthias Sperger Competition for Double Bass in Germany.

• **Ong Zhen Qi** (Design and Environment) won the Gold Award in the student category of the Singapore Furniture Design Award 2007.

• **Brian Law** (NUS College in Silicon Valley; Design and Environment) won the second prize at the Electrolux Design Lab 2006 in Spain for a concept using vacuum cooking in an inventive way. He also clinched the International Media Award – garnering most votes for the favourite design of the media people in attendance.

• **Ye Zhen** (Engineering) won first prize in the Singapore Section Student Paper Contest (Postgraduate) of the Institute of Electrical and Electronics Engineers.

• **Melvin Koh Kint Hock** (Arts and Social Sciences) won First Prize (University Category) in the Monetary Authority of Singapore-Economic Society of Singapore Essay Competition.

• **Fadeyi Moshood Olawale** (Design and Environment) won the Gold Medal at the National Taekwondo Championship.

• **Boey Mao Jie** (Dentistry) and **Lee Sing Yong** (Engineering) attained Gold in the National Youth Achievement Award, a programme that encourages those aged between 14 and 25 to develop qualities of self-reliance, perseverance and a sense of responsibility to self, society and country.
• **Teo Peili** (NUS Graduate School for Integrative Sciences & Engineering) was awarded one of the five best poster awards at the 1st Asian Coordination Chemistry Conference held in Japan.

• **Tian Lu** (Science) won the Royal Society of Chemistry's Journal of Materials Chemistry Best Poster Award at the International Conference on Materials for Advanced Technologies 2007.

• **Gayathri Subramanyam** (Science) was awarded the Best Oral Presentation Award in Symposium T: *The Nature of Design – Utilising Biology’s Portfolio* at the Materials Research Society Spring Meeting 2007.

• **Xu Li** (Science) was awarded a Swiss House award to spend six to nine months at the University of Basel, Switzerland. The Swiss House Singapore is a one-stop physical and virtual information, coordination and networking platform fostering partnerships in the field of education, research and innovation.

• **TeamNUS** won the men’s and women’s Prime Minister’s Challenge Trophy at the Dragon Boat Festival 2007. The men’s team also came in first in the Tertiary Category.

• **Talking in Bed**, the **University Scholars Club’s** production featuring talents from the University Scholars Programme as well as children from the KK Hospital Cleft and Craniofacial Centre raised more than S$26,000 for the Centre's support fund.

• The 2006 Rag and Flag events organised by the **NUS Students’ Union** (NUSSU) raised about S$380,000 for charitable causes.

• The **NUSSU Volunteer Action Committee** (NVAC) is the first youth group to receive the Singapore International Foundation (SIF) Award (Group Category). NVAC received the 2006 SIF Award for its sustained efforts in healthcare and education missions in different parts of Asia since it was set up in 1990.

• Breakers Day 2006 saw 545 nimble-fingered students and staff doing their bit for charity and earning a place in the Singapore Book of Records by folding 9,037 origami cranes in an hour. In another event, 10,000 cranes were folded over a week. For each paper crane, Songhe Fragrance Rice donated 50 cents to the Singapore Autism Association, and a bowl of rice to the Singapore Red Cross.
FACULTY AND STAFF

Total faculty and staff: 7,030
Faculty members: 1,944
Research staff: 1,464
Administrative & professional staff: 1,114
General staff: 2,508

University Awards 2007

Outstanding Educator Award

Dr Sunita Anne Abraham (Arts and Social Sciences)
Assoc Prof Victor Tan (Science)

Outstanding Researcher Award

Assoc Prof Liu Xiang-Yang (Science)

Young Researcher Award

Dr Chen Ping (Science)
Assoc Prof Ishtiaq Pasha Mahmood (Business)
Assoc Prof Alirio J Melendez (Medicine)
Dr Yu Hao (Science)
Outstanding Service Award

Prof Lui Pao Chuen (Engineering)
Prof Saw Swee Hock (Institute of Southeast Asian Studies)

University Professor

Prof Wang Gungwu (East Asian Institute)

Emeritus Professor

Prof Chan Soh Ha (Medicine)
Prof Koh Kheng Lian (Law)

Examples of Accomplishments and Service

- NUS President Prof Shih Choon Fong was conferred an Honorary Doctor of Science by Waseda University, Japan.

- Vice Provost (Education) Prof Lily Kong was conferred an Honorary Doctor of Science by the University of Loughborough, UK.

- In recognition of outstanding service in promoting ophthalmic education around the world, particularly in the Asia Pacific, Clinical Professor Arthur Lim (Medicine) was one of the two who received the American Academy of Ophthalmology’s Special Recognition Award 2006.
• The quantum information science team of Prof Oh Choo Hiap, Prof Berthold-Georg Englert and Dr Dagomir Kaszlikowski (Science) received the National Science Award 2006 for outstanding contributions to theoretical research on quantum coherence and its applications in quantum information science.

• Prof Colin Sheppard (Engineering) received the Optics and Photonics Division Prize from the UK Institute of Physics.

• Dr Liong Shie Yiu (Engineering) was awarded the Order of Merit of the Federal Republic of Germany.

• Prof Goh Thong Ngee (Engineering) is the inaugural recipient of the Masing Book Prize of the International Academy for Quality in recognition of his contribution in co-authoring the most noteworthy book in quality management as adjudged by a panel of peers.

• Assoc Prof Aung Tin (Medicine) won the Nakajima Award of the Asia Pacific Academy of Ophthalmology for outstanding contribution to ophthalmology research.

• Dr Jerry Chan (Medicine) received the Vandenburg-Storz Prize for Best Young Investigator at the International Fetal Medicine and Surgery Society Conference, USA.

• Prof Donald Tan (Medicine) received an Achievement Award from the American Academy of Ophthalmology for contributions made to the Academy, its scientific and educational programmes and to ophthalmology.
• Assoc Prof **Phoon Kok Kwang** (Engineering) received the Editorial Board Member Exemplary Award, Geo-Institute of the American Society of Civil Engineers.

• Dr **Lim Beng Choo's** (Arts and Social Sciences) research on the Japanese noh playwright, Kanze Kojiro Nobumitsu, was published by Cornell University.

• International conference awards included:
  ~ Assoc Prof **Chia Sin Eng** (Medicine) for research in respiratory protective equipment in hospitals during the SARS epidemic, Best Paper Award at the 13th International Conference of International Society for Respiratory Protection, Canada.
  ~ Drs **April Roslani**, **Dean Koh**, **Wong Kutt Sing**, **Cheong Wai Kit** and Adjunct Assoc Prof **Charles Tsang** (Medicine), Best Paper Award at the 2nd International Congress of Laparoscopic Colorectal Surgery, USA.
  ~ Dr **Narashimhan Kothandaraman** (Medicine), Best Oral Research Presentation Award, 7th International Conference on Ovarian Cancer, MD Anderson Cancer Center, USA.
  ~ Prof **George Ofori** (Design and Environment), CIB (International Council for Research and Innovation in Building and Construction) Best Coordinator's Award, CIB World Congress, South Africa.
  ~ Assoc Prof **Rajagopalan Srinivasan** (Engineering), Best Paper Award at IEEE 4th International Conference on Industrial Informatics, Singapore.
  ~ Prof **Barry Halliwell**, Drs **Jan Gruber** and **Tang Soon Yew** (Medicine), Best Poster Award at the 5th European Congress of Biogerontology of the International Association of Gerontology.
  ~ Assoc Prof **Milagros Rivera**, Dr **Lim Sun Sun** and **Dr Hichang Cho** (Arts and Social Sciences), Second Place Award (International Paper Division) at the 52nd Annual Broadcast Education Association Convention on Media, USA.

• The Centralised Online Registration System for module bidding won Mercury Corporation’s 2006 Business Technology Optimization for Technology Innovation Award, which recognises organisations worldwide that demonstrate excellence in optimising the business outcomes of IT.
• Prof **Seeram Ramakrishna** (Engineering) was awarded the ASEAN Outstanding Engineering Achievement Award.

![Image of Seeram Ramakrishna](image)

• **Dr Sung Wing Kin** (Computing) won the National Science Award 2006 for his contributions to a team effort at the Genome Institute of Singapore working on diTag technology.

• Assoc Prof **Lee Fook Hou**, Prof **Quek Ser Tong** and Dr **Chew Soon Hoe** (Engineering) received the Team Research and Development Award of the Defence Technology Prize 2006.

• **Dr Chen Ping** (Science) won the 5th Temasek Young Investigator Award, a S$500,000 research grant, to develop portable lightweight fuel cells for military application.

• Having made a clean sweep of virtually all the young scientist awards in Singapore for his functional genomics and systems biology research, Dr **Yu Hao** (Science) received the 2007 Singapore Youth Award, the highest national recognition for inspirational achievements.

• Assoc Prof **Caroline Lee** (Medicine) received the SingHealth Investigator Excellence Award 2006.

• **Dr Tan Hao Yang** (Medicine) won the Clinical Scientist Investigator Award, which supports the career development of clinician scientists and promotes translational research in Singapore.

• **Dr Philip Iau** (Medicine) received the Researcher-Investigator-Scientist Enabler Award by the National Healthcare Group, for his translational research in breast cancer genetics.
• Dr Yeo Yee Chia (Engineering) won the A*STAR Young Scientist Award 2006 for his work in nanoelectronics.

• The Institute of Physics Singapore (IPS) awarded Prof Lim Hock (Science; Temasek Labs@NUS) the IPS President’s Medal 2007, which is conferred to both physicists and non-physicists for meritorious service in all physics-related fields that are beneficial to physics in general and to the IPS.

• Prof Li Baowen (Science) received the World Scientific (Physics Research) Medal and Prize 2007, which is conferred to an individual or team for significant contributions in pure and applied physics research that are recognised internationally.

• Dr Jeroen Van Kan (Science) was conferred the IPS Omicron Nanotechnology Medal and Prize (Nanotechnology Physics Research) 2007.

• Prof Goh Suat Hong (Science) was awarded the Outstanding Alumnus Award 2007 by College of Polymer Science and Engineering, University of Akron.

• Assoc Prof Kalyani Mehta (Arts and Social Sciences) and Prof Thio Li-ann (Law) were selected to serve as Nominated Members of Parliament.

• In the 2006 National Day honours roll, Mr Ong Tang Kwee (Science) was awarded the Public Service Star (Bar); Vice Provost (Education) Prof Lily Kong and Prof Tan Cheng Han (Law) the Public Administration Medal (Silver); Assoc Prof Peter Pang Yu Hin (University Scholars Programme) and Assoc Prof Tan Teck Koon (Science) the Public Administration (Bronze).

The University received a total of 4,866 gifts amounting to S$100 million. These gifts, with a median quantum of S$100, attracted S$87 million in government matching grants. A total of S$224 million in new pledges was committed.

Major gifts and pledges include the following:

- Dr Li Ka-shing pledged S$100 million to the Lee Kuan Yew School of Public Policy for an endowment fund to support scholarships and a distinguished professorship at the School.

- The Estate of Tan Sri Khoo Teck Puat pledged S$80 million to Duke-NUS Graduate Medical School Singapore to grow the School’s biomedical research initiatives.

- Lippo Group pledged S$21 million to NUS Business School. The single largest gift from a private donor to the School, the sum includes a S$15 million gift to develop the School’s new flagship building, as well as a S$6 million endowed gift to fund two distinguished professorships.

- Neptune Orient Lines Ltd gave S$10 million to the NOL Fellowship.

- Shaw Foundation pledged S$5 million to Duke-NUS Graduate Medical School Singapore to establish the Shaw Foundation Scholars Programme, for scholarships to the most outstanding students pursuing the Doctor of Medicine degree, with consideration for those with demonstrated financial need.
• **Singapore Totalisator Board** pledged $2.8 million to support research scholarships across NUS.

• Mrs **Rita Balachandran**, widow of renowned orthopaedic surgeon N Balachandran, made a $1.5 million gift to the Yong Loo Lin School of Medicine to start the N Balachandran Professorship in Paediatric Orthopaedics at the Department of Orthopaedic Surgery.

• The **Chen Su Lan Trust** made an endowed gift of $1 million to benefit financially needy students. The gift will be administered in two phases. Income from the endowed gift will initially be used to provide student bursaries through the Annual Giving programme. A bursary fund, to be named the Chen Su Lan Student Financial Assistance Endowment Fund, will subsequently be established to address students’ financial needs.

• The **Lee Foundation** made gifts of $760,000 in support of the following: the Nobel Museum's Centennial Exhibition of the Nobel Prize hosted at NUS; research on adult stem cells, ovarian cancer and mental health at Yong Loo Lin School of Medicine as well as the School’s 4th Asia Pacific Medical Education Conference; the East Asian Institute's 10th anniversary international conference and lectures; a trilateral research project and an international workshop at the Faculty of Science.

• **Mitsui & Co (Asia Pacific) Pte Ltd** gave $500,000 to set up the Mitsui Japanese Studies in Southeast Asia Endowment Fund. The Fund’s proceeds will go towards promoting the regional integration of Japanese studies, including the exchange of scholars and students between NUS and other study centres, with the aim of strengthening ties between Japan and Southeast Asia.

• A retiree gave $420,000 towards the establishment of the Fok Chu On Family Bursary for medical and nursing students in financial need.

• The **Ngiam family** made an endowed gift of $255,000 towards the Mr & Mrs Ngiam Fook Quee Memorial Scholarship, to be established at the Department of Economics.

• The **family of the late Mr Phan Kah Foh**, an alumnus, made an endowed gift of $250,000 to the Faculty of Engineering in his memory, with the aim of supporting eligible civil engineering undergraduates facing financial difficulties.
• **Seven former students of Emeritus Professor Wong Hock Boon** led by Dr William Yip honoured him by making a gift of S$250,000 to the Department of Paediatrics to fund a Visiting Professorship. The gift will be administered as part of the Wong Hock Boon Professorship in Paediatrics which Prof Wong established with a contribution of S$1.5 million in 2005.

The generous philanthropy of Prof **Saw Swee Hock**, Professorial Fellow at the Institute of Southeast Asian Studies (ISEAS), was recognised at an appreciation lunch on 16 October 2006 at the Istana. Prof Saw has made gifts that have funded, among other things, student bursaries, medals, professorships and the Saw Centre for Financial Studies at the NUS Business School. The recipient of a Distinguished Alumni Service Award and a University Award for Outstanding Service, Prof Saw has devoted most of his illustrious career to NUS, moulding young minds as Professor of Statistics until 1991. He continues to serve as a member of the NUS Board of Trustees, while pursuing research at ISEAS.
• NUS Chancellor and Singapore President Mr S R Nathan was conferred the 2007 Eminent Alumni Award for his distinguished service to Singapore and alma mater.

• In recognition of their outstanding and sustained service to NUS, predecessor institutions or the alumni community, the Distinguished Alumni Service Awards were presented to Mr Paul S Abisheganaden, Prof Chan Heng Chee, Mr Hsieh Fu Hua, Mr Lai Kim Seng, Ms Olivia Lum Ooi Lin, Mr Chandra Mohan K Nair, Dr Teo Ho Pin, Mr Oliver Tian Sau Meng, Mr Arthur Yap Hock Seng and Mr Yeo Keng Joon.

• The inaugural Outstanding Young Alumni Awards were presented to Mr Sevugan Alagappan, Mr Stefan Chow E-Fung, Ms Corrinne Foo May Ying, Mr Peter Ho Yew Chi, Dr Kua Harn Wei, Dr Bernard Leong Chung Wei, Ms Eunice Olsen, Mr Tan Aik Hong, Dr Benedict Tan Chi-Loong, and Ms Stella Tan Wei Ling, for contributions and achievements in their fields and service to NUS or its alumni community, exemplifying the best attributes of youth.
• His Majesty Sultan Iskandar Ibni Almarhum Sultan Ismail, the Sultan of Johor Darul Ta’zim, joined the NUS alumni family upon the conferment of an Honorary Doctor of Laws, in recognition of his contributions to bilateral ties.

• The Melbourne NUS Overseas Alumni Chapter was established in August 2006, making it the 14th chapter around the world.

• The number of Singapore-based alumni groups grew to 42 with the official launch of the NUS Economics Alumni. Registered membership of this newest group stands at 360.

• The development of the new Shaw Foundation Alumni House is progressing and will be completed in early 2008. As a beacon for alumni around the world to return to alma mater, it will be a home on campus for connectivity, networking, bonding and partnerships.

• The official opening of the China Alumni Secretariat in Beijing in October 2006 drew some 300 alumni as well as guests from government bodies, Chinese universities and Singapore organisations. The guest-of-honour was Dr Li Lanqing, former Vice Premier of the State Council in China and NUS alumnus.
The NUS Business School alumni associations spearheaded the Golf Challenge 2007 to raise funds for a new building. Deputy Prime Minister and Minister for Home Affairs as well as NUS alumnus Mr Wong Kan Seng presented a S$200,000 cheque to the School on behalf of fellow alumni.

The Class of 1981, the pioneer batch to graduate after NUS’ establishment following the merger of University of Singapore and Nanyang University, celebrated its 25th Anniversary with a reunion dinner which included an art auction in aid of needy students.

A seamless transfer of student email accounts of the Class of 2007 to AlumMAIL – a complimentary lifelong email – connected the newest alumni members to alma mater and one another, bringing membership of AlumMAIL to 30,000.

In partnership with NUS Libraries, the Alumni Library Portal was set up to give alumni access to online materials.

Distinguished alumna Dr Margaret Chan, Director General of the World Health Organization (WHO) visited NUS and gave a lecture on Public health in the 21st century: Optimism in the midst of unprecedented challenges. Dr Chan, who received her Masters in Public Health from NUS in 1985, showed outstanding leadership as Hong Kong’s Director of Health in combating its avian flu outbreak in 1997 and the SARS epidemic in 2003. Thereafter, she joined the WHO. In 2005, she served as an external examiner for the MSc (Public Health) examinations at NUS.
• The NYU@NUS programme at the Law Faculty enrolled its pioneer batch in May 2007. Students take courses at NUS taught by professors from both New York University (NYU) and NUS, and graduate with double Master of Laws degrees from both universities.

• The Lee Kuan Yew School of Public Policy launched three new double degree programmes with overseas partners: Master in Public Policy from NUS and Master of Public Administration from Columbia University; Master in Public Policy from NUS and Master of Public Administration from London School of Economics and Political Science; and Master in Public Policy from NUS and Master of Public Affairs from Institut d’Etudes Politiques de Paris.

• The School of Computing’s Interactive Digital Media programme and the Entertainment Technology Center at Carnegie Mellon University (CMU) are collaborating to offer a concurrent degree programme leading to a Bachelor of Computing in Communications and Media from NUS and a Master of Entertainment Technology from CMU.

• A new joint degree programme offering a Bachelor of Philosophy (Hons) from the Australian National University (ANU) and a Bachelor of Arts (Hons) from NUS was introduced for top humanities students at ANU and NUS’ University Scholars Programme and Faculty of Arts and Social Sciences students.

• The Faculty of Arts and Social Sciences and the College of Arts and Sciences at The University of North Carolina at Chapel Hill introduced five new joint degree programmes.

• The University Scholars Programme, together with the Faculty of Arts and Social Sciences and the Faculty of Science, launched a five-year double degree with Waseda University’s School of International Liberal Studies.

• New graduate degree programmes include Doctor of Pharmacy (Coursework); Master of Science (Coursework) in Pharmaceutical Science and Technology; Master of Science (Mechanical Engineering), with specialisation in offshore oil and gas technology; Master of Landscape Architecture, with emphasis on sustainable and environmental issues as well as urban/regional planning; and Master of Science (Coursework) in Chemistry with areas of concentration in analytical, materials, synthetic and medicinal chemistry.
• New double degree programmes providing inter-disciplinary exposure include business administration with communications and new media; and law with life sciences.

• The Lee Kuan Yew School of Public Policy launched concurrent degree programmes in Business and Public Policy and in Law and Public Policy with the Business School and Law Faculty respectively.

• NUS Business School is the first in Singapore to be recognised as a Chartered Financial Analyst programme partner. The rigorous programme is widely regarded as the investment profession’s ultimate benchmark for measuring competence and excellence in financial markets.

• Following a curriculum revamp, Master of Business Administration (MBA) students can now finish the MBA programme in a year instead of 17 months.

• The Chemistry Department signed agreements for new graduate programmes with China's Zhejiang University and Sichuan University.

• The Alice Lee Centre for Nursing Studies, which offers Singapore's first Bachelor degree in Nursing, enrolled its inaugural batch in August 2006. The 49 pioneers were selected from the applicant pool of over 2,000. In early 2007, two PhD students enrolled at the Centre, which is based at the Yong Loo Lin School of Medicine.

• The Chemistry Department inaugurated the Singapore-Australia Collaborative and Cooperative Chemistry Symposium with top Australian universities. The department was also a key partner in the new National Chemistry Week hosted by Singapore National Institute of Chemistry.

• The 1st annual Singapore Chemical Science Fair was launched with a competition for research projects in chemical science, focusing on the areas of chemical synthesis, molecular medicine, environmental chemistry, and nanochemistry. This new outreach project is open to all school students.

• A new Research and Industry Placement Enterprise (RIPE) programme provided attachments in industry and research institutes to Chemistry and Applied Chemistry students.

• The Food Science & Technology programme signed an agreement on a Knowledge Management Initiative with Cadbury Schweppes Asia Pacific Pte Ltd.
Commencement 2007 saw the pioneer graduates for:

- PhD in Chemical Engineering, dual NUS-University of Illinois at Urbana-Champaign degree
- PhD in Genetic and Molecular Epidemiology, joint NUS-Karolinska Institute degree
- Master of Science in Infectious Diseases, Vaccinology and Drug Discovery, joint NUS-University of Basel degree
- Master of Science in Computational Engineering, Singapore-MIT Alliance
- Master of Science in Advanced Materials for Micro-and Nano-Systems, Singapore-MIT Alliance
- Master of Science in Intellectual Property Management, joint NUS-IP Academy degree
- Master of Science in Systems Design and Management, joint NUS-IP Academy degree
- Bachelor of Music, Yong Siew Toh Conservatory of Music

New Programmes Offering Global Exposure

- A pilot project by the University Scholars Programme (USP) enables NUS and Imperial College students to spend time at the partner university to conduct projects under the Undergraduate Research Opportunities Programme.

- A new collaboration with nine German universities enhances language immersion programmes for students bound for Germany under the Student Exchange Programme. Students will also gain exposure to German culture, thinking and way of life through industrial attachments.

- USP students visited Stanford University under the new USP-Stanford Summer Programme, which had the theme Multiculturalism: Singaporean and American Perspectives.

- A USP-Stanford Undergraduate Forum in Singapore, part of Prof Don Emmerson’s overseas seminar, brought 15 Stanford students to participate in the forum entitled Young People in a Young Century: Current and Future Priorities for Singapore and the United States.

- The Science Faculty formalised summer programmes with Harvey Mudd College in USA as well as with University of Toronto and University of Waterloo in Canada.

- The Physics China Immersion Programme provided the opportunity for interactions with Chinese students to learn more about Chinese history, culture and society while gaining research experience.
• The Physics Department organised a six-week Summer Internship Programme, aimed at promoting graduate studies in the department, for 21 students from eight top Indian institutions for the first time.

• A German Immersion programme implemented by the Physics Department provided 27 students three weeks of exposure – two weeks at Munich University and a week at the University of Goettingen – to the science and culture of Europe.

• A three-week visit under the European Immersion Programme saw Chemistry and Applied Chemistry students gaining real-life exposure to business and industrial research.

• USP collaborated with The University of North Carolina at Chapel Hill (UNCCH) to establish a student exchange programme for USP students and UNCCH’s Honours Programme.

• Students from the Chinese Academy of Sciences, University of California, Berkeley and NUS took part in a collaborative programme in mathematical logic.

• The University of British Columbia (UBC)-USP Study Programme on Chinese migration in Southeast Asia took UBC and USP students on a three-week field study covering Guangzhou, Hong Kong, Kuala Lumpur, Malacca and Singapore.

• A team of Dentistry students went on the inaugural clinical attachment at Peking University, China.

• Business students went on the Mekong Business Trip of the Technopreneurship and Incubation Programme/NUS Business Incubation of Global Organisations.

• Destination Danang 2006, initiated by USP students in collaboration with Global Village Foundation, took USP students to Vietnam for community service.
Dr Tony Tan (centre), Chairman, National Research Foundation, tours Physics Department’s Quantum Information Science and Technology Lab

School of Computing team develops algorithm to identify changes in retinal vessels which warn of strokes

An Interactive Digital Media project at the Mixed Reality Lab

Investigating red blood cells infected by the malaria parasite

Recipients of the Young Investigator Award
RESEARCH

- Faculty members produced more than 3,200 research papers in international, regional and local journals, and over 2,900 international conference papers.

- Research funding awarded by agencies such as A*STAR, Ministry of Education, the National Medical Research Council and other sources in the year totalled over S$275 million in the financial year ending 31 March 2007.

- The first Research Centre of Excellence in Singapore is NUS’ Centre for Quantum Technologies, led by Lee Kong Chian Centennial Professor Artur Ekert. It has been set up with co-funding from the National Research Foundation (NRF) and the Ministry of Education.

- The first interdisciplinary research group – in infectious diseases – of the Singapore-MIT Alliance for Research and Technology (SMART) Centre began work in the Centre for Life Sciences (CeLS) building. SMART is the pioneer in the NRF’s Campus for Research Excellence and Technological Enterprise (CREATE), located at NUS.

- The Defence Technology Prize 2006 was awarded to NUS for outstanding contributions to Singapore’s defence and security through developing, in collaboration with the Defence Science and Technology Agency and the Nanyang Technological University, innovative technology to enhance the protection of defence facilities and critical infrastructure.

- A Distinguished Research Professor scheme was established for senior academics from leading universities to spend several months a year at NUS to help build up research in strategic areas.

- A new S$6 million research fund was established to promote integrated research in the Humanities and Social Sciences on topics relevant to Asia.

- Drs Daniel Chua (Engineering), Gong Jiangbin (Science), Liu Bin (Engineering), Liu Xiaogang (Science), Ramanathan Mahendiran (Science), Annett Schirmer (Arts and Social Sciences) and Wang Yi-Chen (Arts and Social Sciences) received the Young Investigator Award, a new grant administered by the Office of Deputy President (Research and Technology). These grants, of a maximum of S$500,000 per project for three years, are open to all disciplines and encourage projects which cross disciplinary boundaries and promise to break new ground.
• In line with the strategic goal to build research excellence in Interactive and Digital Media and Environmental and Water Technologies, the Interactive and Digital Media Institute and the NUS Environmental Research Institute were established as university-level, interdisciplinary research institutes.

• The Singapore-Delft Water Alliance, launched in February 2007, is a collaboration with the Public Utilities Board and Delft Hydraulics of the Netherlands. It focuses on multi-institutional and interdisciplinary research related to water management, hydraulic engineering and urban water cycles.

• NUS Hollywood Lab, set up in a new facility shared with the University of Southern California’s School of Cinema and Television, facilitates close collaboration with Hollywood movie studios, universities and entertainment companies in the US for R&D, student exchange and visiting professorships.

• A Finance Cluster spearheaded by the Office of the Provost has been formed to catalyse multi-disciplinary research collaboration, leveraging on strengths across NUS, including the Berkeley-NUS Risk Management Institute, Finance and Accounting, Institute of Real Estate Studies, Economics, Science and Computing.

• The Centre for Biomedical Ethics (CBmE), officially opened in October 2006, was awarded a S$4.7 million National Research Foundation grant to develop a regional Biomedical Ethics centre providing training and expertise to the region. Based at the Yong Loo Lin School of Medicine and led by Chen Su Lan Centennial Professor in Medical Ethics Prof Alastair Campbell, CBmE is a unique ethics research centre harnessing strengths from across NUS – from law and philosophy to medicine and the basic sciences – to add value to Singapore’s existing ethics research bodies.

• The Yong Loo Lin School of Medicine is partnering RAND Corporation, the Ministry of Health, Singapore Health Services and the National Healthcare Group, to develop a Centre for Health Services Research.

• A new Centre for Social Development (Asia) was set up at the Department of Social Work to conduct applied research and pioneer social development programmes.

• The Offshore Technology Research Programme at the Centre for Offshore Research and Engineering has been launched. It is a joint effort between NUS, Agency for Science, Technology and Research, the Maritime and Port Authority of Singapore and the Economic Development Board.
• The latest findings by Assoc Prof Li Daiqin (Science), published in *Science*, on nanostructures used by male spiders to reflect UV light have potential applications ranging from biomedical sciences and ophthalmology to the automobile and textile industries, energy storage, and laser optics.

• Dr Bian Jin-Song (Medicine), collaborating with the Office of Life Sciences’ Cardiovascular Biology Research Group led by Prof Philip Moore (Medicine), identified the ability of hydrogen sulfide to induce specific cellular responses and its potential for protection against neuroinflammation.

• Assoc Prof Yang Daiwen (Science) has developed a new nuclear magnetic resonance strategy to study the structure of bigger proteins, such as human adult haemoglobin, which may help uncover the structure and dynamics for a protein to make good artificial human blood.

• A team led by Assoc Prof Tan Chew Lim (Computing) has come up with more effective and efficient methods for storing and retrieving digital information, clinching the HP Digital Publishing for University Teaching and Learning grant to develop advanced techniques for text recognition, storage and retrieval.

• Dr Huang Zhiwei (Bioengineering) pioneered a new cancer detection tool using near-infrared fluorescence imaging.

• A robust algorithm to automatically grade the blood vessel structure in retinal images, developed by Assoc Prof Wynne Hsu, Assoc Prof Lee Mong Li (Computing) and their team, can help provide warning of strokes by identifying subtle changes in the eye’s retinal vessels.

Examples of Significant Research Findings and Projects

• The opening of the Centre for Life Sciences (CeLS), which brings under one roof investigators and facilities from a spectrum of disciplines and backgrounds, marked a milestone in the pursuit of excellence in life science research and education.

• The Tropical Marine Science Institute leads Singapore’s first vulnerability study into the impact of climate change, targeting key areas such as rainfall, temperature and wind, and examining data since 1960 to predict future scenarios for Singapore.
• A team led by Dr Liang Fengyi (Medicine) succeeded in identifying the functions of a gene that could hold the key to preventing early brain ageing.

• Assoc Prof James Goh (Medicine), leading a team from the Bioengineering and Tissue Engineering Programmes, developed a speedy way to fabricate artificial legs. This won them the top prize at Singapore’s first Assistive Technology Invention competition organised by the Society for the Physically Disabled and the Institute for Infocomm Research.

• A paper by Assoc Prof Lim Chwee Teck (Bioengineering) and Dr Kevin Tan (Medicine) in Proceedings of the US National Academy of Sciences presented the findings of their team, collaborating with MIT and Institut Pasteur, that a protein, RESA, makes red blood cells infected by the malaria parasite less pliable.

• A record S$25 million grant – the largest single grant ever given for biomedical research in Singapore – was awarded to a team of 19 researchers led by Assoc Prof Yeoh Khay Guan (Medicine). The National Medical Research Council - National Research Foundation grant for the project entitled The Singapore Gastric Cancer Consortium is the first to be supported under the Translational Clinical Research Flagship Programme. In recognition of his research and promise, the Journal of Gastroenterology & Hepatology Foundation awarded Assoc Prof Yeoh the Emerging Leader Lectureship.

• NUS received 30 of the 51 Biomedical Research Council grants awarded in 2007. Out of the total of S$31.68 million awarded, Assoc Prof Saw Seang Mei (Medicine) won the largest single project funding of S$1.74 million over three years for a project that focuses on the genetics and environmental risk factors of myopia in Singapore.

• In less than a year since the opening of the Alice Lee Centre for Nursing Studies of the Yong Loo Lin School of Medicine, its faculty attracted S$400,000 in research funding for 10 projects, with a further S$1 million under consideration, to investigate topics such as cardiac rehabilitation, adolescent depression, gambling behaviour, bereavement, post-natal depression, and palliative care. Eleven journal articles were published in peer reviewed journals, and another nine are in press. Three students published papers on their clinical experiences in the Singapore Nurses Journal.
ENTERPRISE

• Complementing the NUS Overseas Colleges Programme, an innovative Local Enterprise Achiever Development (iLead) Programme immerses students in innovative Singapore-based enterprises and offers a stint abroad to learn about entrepreneurship in a different country and culture. In iLead's first year, about 60 students applied to learn entrepreneurial and management skills from entrepreneurial leaders, with about 20 companies offering internships.

• Held for the first time in Singapore, the 6th Biennial International Triple Helix Conference on university, government and industry linkages drew about 220 participants from 37 countries. Organised by NUS Enterprise, the conference also linked up researchers, some of whom formed an international team for a University Technology Commercialisation in Asia project coordinated by NUS Entrepreneurship Centre.

• The Technology Commercialisation Forum 2006, on the theme How to do Business with Universities and held in conjunction with Global Entrepolis@Singapore 2006, drew about 160 participants from 10 countries worldwide. Leading companies and professionals shared experiences in tapping universities’ inventions and expertise to create value for their business and stay competitive.
• tenCube, founded by NUS Overseas Colleges alumni, has gone from winning the 7th Startup@Singapore competition in 2006 to other successes. At the APEC-TIC100 Competition, it was the ‘Best Innovation Finals Candidate’. It represented Singapore in the Asia Pacific ICT Award 2006, and was selected as one of Asia Pacific’s top 10 wireless innovations by Frost and Sullivan. It has secured almost S$1 million in working capital from investments and grants. It won the Red Herring Asia 100 Award.

• Japan’s Sasakawa Peace Foundation awarded a grant to NUS Entrepreneurship Centre to conduct and coordinate a two-year research collaboration among seven research-intensive Asian universities on the role and impact of universities in a national innovation system.

• The 8th Start-Up@Singapore Business Plan Competition in 2007 attracted a record-breaking 900 participants in 234 teams. Five out of the six finalists in the General category were from NUS.

• Exoro Pte Ltd and Microfine Materials Technologies Pte Ltd are the latest tenants to be accepted into the NUS Enterprise Incubator (NEI), which currently houses 31 startup companies. NEI has successfully incubated about 50 companies since it was set up in 2002.

• The Funds for University Student Entrepreneurs (FUSE) gave a jumpstart to 22 student ventures. To help students realise their entrepreneurial aspirations by providing crucial early stage funds, FUSE provides a 4:1 match for every dollar raised by the students.
CAMPUS DEVELOPMENTS

• NUS’ return to Bukit Timah Campus (BTC) was marked by the campus’ official opening by Prof S Jayakumar (Law), Deputy Prime Minister, Coordinating Minister for National Security and Minister for Law, on 8 July 2007. BTC is now home to Lee Kuan Yew School of Public Policy, Faculty of Law, C J Koh Law Library, Asia Research Institute, Institute of South Asian Studies and East Asian Institute.

• The Duke-NUS Graduate Medical School Singapore entered a new phase with a groundbreaking ceremony on 1 September 2006 at the Outram Campus, the historic site of Singapore’s first medical school. The School will graduate its first batch of students in 2011, awarding a Doctor of Medicine from both Duke University and NUS.

• The official opening of Yong Siew Toh Conservatory of Music’s custom-built building integrating a concert hall and state-of-the-art facilities on 7 October 2006 was commemorated by the unveiling of a foundation stone and a Gala Concert by the Conservatory Orchestra.
• The NUS High School of Mathematics and Science campus, opened officially on 23 April 2007, won an Honour Award 2006 in the DesignShare Awards, a globally recognised award for the design of innovative learning environments, for “setting a new paradigm, an inspiration for a new era of learning” in Singapore.

• The groundbreaking ceremony for the new Temasek Labs@NUS building, a joint development by NUS and the Defence Science and Technology Agency, marked a significant step in the next phase of Temasek Labs as another pillar of Singapore’s national defence technology infrastructure.

• NUS’ IT infrastructure was enhanced with the launch of ThinkLab, in partnership with Lenovo, AMD Far East Ltd and Jardine OneSolution, and the opening of the IT Disaster Recovery Centre. These facilities decrease the need for on-site support, reduce ownership costs, enhance user productivity and protect the community’s vast data flow.