

**Distinguished Science Alumni Awards 2009**  
**Ang How Ghee, PBM, BBM**  
**BSc(Hons) 1961, MSc 1962, DSc 1985 Chemistry**  
**NUS Emeritus Professor, Former NTU Research Professor**

Graduating with a first class honours from the University of Singapore, Emeritus Professor Ang How Ghee pursued his chemistry career with a passion that earned him three doctorates. His academic appointments and accolades included prestigious fellowships at Peterhouse, Cambridge and the Royal Commission for the Exhibition of 1851 in London. His illustrious attainments and achievements continued after he returned to his alma mater where he distinguished himself in teaching and research. He rose to and retired as Senior Professor, acquiring several Fellowships and Awards as part of his very impressive track record. This included his election as Fellow of the Third World Academy of Sciences. He was also the first local recipient of the Singapore Defence Technology Distinguished Fellowship.

Equally impressive is his long list of contributions and service outside the University. Although renowned in Inorganic and Organometallic Chemistry he has also made a name for himself in the field of education and environment, food, health, safety, manpower, science and technology issues and policies. He has served as Chairman and Consultant, Special Advisor, Editor and Board Member, Academic Assessor and Examiner of numerous nationally and internationally bodies including the United Nations. He was for example the Chairman of the former Science Council of Singapore, Chairman of the ASEAN Committee on Science and Technology and Member of the United Nations Advisory Council on Science and Technology for Development. His expertise and experience had been sought by or made available to several government agencies and ministries such as Education, Environment, Labour, Health, Trade and Industry, Defence and the then Ministry of Science and Technology.

Besides the satisfaction of enjoying a high international reputation, Prof Ang's contributions have also been recognised through such prestigious state awards like the Public Service Medal (PBM) and the Public Service Star (BBM), National Science Award, DSTA Team Excellence Award, MINDEF Scientific Award, the Friend of Labour Gold Medal and the ASEAN Meritorious Service Award.

Not resting on his laurels following his retirement from the National University of Singapore where he was conferred an Emeritus Professorship, Prof Ang presently holds the following positions: Director of the Energetics Research Institute (EnRI-NTU), Adjunct Scientific Advisor (DSTA), Special Advisor (DSO National Laboratories), Emeritus Professor (NUS), Research Professor (NTU), and a consultant to ATREC Pte Ltd – serving as Chairman of its Advisory International Panel. He serves as a Member of the Editorial Boards of the Chinese Journal of Energetic Materials in China and the Central European J Energetic Materials in Poland. He is also active on the Advisory Board of the journal 'Nanoscience & Technology' in the Singapore National Academy of Science and the Scientific Committee of the annual symposium on 'New Trends in Research on Energetic Materials' of The Czech Republic.

**"Science is an ever enriching resource that continues to change the way we understand and innovate."**

In recognition of his accomplishments and contributions, the Faculty of Science honours Emeritus Professor Ang How Ghee with the 2009 Distinguished Science Alumni Award.

## **Distinguished Science Alumni Awards 2009**

**LEE Sing Kong**

**PhD 1985**

**Director, National Institute of Education**

A horticulturist by training, Professor Lee Sing Kong's interests are in agrotechnology, urban forestry and plant tissue culture. He has been involved in the greening of the island of Singapore since 1975. In 1991, he joined the National Institute of Education and embarked on the research into aeroponics. He developed the aeroponic technology and adapted it for the production of temperate vegetables in the tropics through rootzone modification. This technology has been licensed for the establishment of two commercial farms, one in Singapore and the other in Malaysia.

Professor Lee has received several awards for his achievements in this field, including the National Technology Award of Singapore 2000, the Urban Agriculture 2000 Award from the Urban Agriculture Network (under the auspices of FAO), the Chevalier dans l'Ordre Palme Academique from the French Ministry of Education in 2000, and the Asian Innovation Award (Bronze) from the Far Eastern Economic Review in 1998.

Apart from his responsibilities as Director of NIE, Dr Lee provides consultancy services in aeroponics and urban forestry to several corporations locally and internationally.

**"Persevere in your pursuit in what you believe in."**

In recognition of his accomplishments and contributions, the Faculty of Science honours Professor Lee Sing Kong with the 2009 Distinguished Science Alumni Award.

**Distinguished Science Alumni Awards 2009**

**NG Kok Song, PPA(E)**

**BSc(Hons) 1970 Physics**

**Managing Director (Public Markets), Group Chief Investment Officer, and Member of the Board of Directors, Government Investment Corp. of Singapore**

**Member of the Board of Directors, Temasek Holdings**

**Founding Chairman of the Wealth Management Institute**

Since his graduation from the Science Faculty in 1970, Mr Ng Kok Song has been intimately involved in safeguarding the value of Singapore's national savings. For thirty-nine years, his professional responsibilities have been focused on the prudent investment of Singapore's foreign reserves, beginning with the Ministry of Finance, then the Monetary Authority of Singapore and now the Government of Singapore Investment Corporation where he is currently the group chief investment officer.

In 1983, he pioneered the setting up of the first financial futures exchange in Asia as the founder chairman of SIMEX which is now part of the Singapore Exchange. In 2004, he was instrumental in establishing the Wealth Management Institute for the training and development of professionals for the private banking and fund management industry.

Mr Ng also serves in the labour movement as a board director of the Singapore Labour Foundation and the chairman of its Investment Committee. In the social services sector, he is Chairman of the Lien Centre for Palliative Care.

He is a recipient of the Public Administration Gold Award and in 2004, the French Government accorded him its prestigious Cross of Knight of The Legion of Honour.

**"Every accomplishment in our lives has a foundation laid by others."**

In recognition of his accomplishments and his contributions, the Faculty of Science honours Mr Ng Kok Song with the 2009 Distinguished Science Alumni Award.

**Distinguished Science Alumni Awards 2009**  
**SEAH Jiak Choo, PPA(G), PPA(P), PPA(E)**  
**BSc(Hons) 1975 Mathematics**  
**Former Director-General, Ministry of Education**

Ms Seah has had a distinguished career in the Education Service spanning 32 years. She joined the Education Service as a teacher in 1977. She taught in Raffles Institution and Raffles Junior College, and was Principal of Tanjong Katong Secondary School from 1990-1993. She also held various appointments in MOE, in curriculum planning, testing and assessment, and school supervision. She rose to become the Director of Schools in 2002 and was appointed Director-General of Education on 1 Apr 2004.

Ms Seah has contributed significantly to the advancement of education in Singapore. Today, there are more options and greater flexibility in our school system, accompanied by a more innovative mindset among teachers. As the Director-General of Education, she engendered greater school and teacher ownership and fostered a higher sense of professionalism among the 29,000-strong teaching force. She put in place several innovations that have a lasting impact on Singapore's education landscape. She led the transformation of lower primary school education through the introduction of the Strategies for Effective Engagement and Development (SEED) programme, which is a ground up approach for teachers to design the most appropriate strategies and programmes to provide students with a more stimulating learning experience. She also played a key role in realising the "Teach Less, Learn More" (TLLM) approach which aimed at teaching better, engaging the learners, building their character and preparing them for life. On the information technology front, she made significant contributions to the development of the Masterplans for Information and Communication Technology (ICT) in Education, which led to the enhancement of teaching using IT tools.

Ms Seah is an advocate of professional and leadership development of teachers, and made significant contributions to the two comprehensive reviews to enhance the recognition of the teaching profession in recent years. She also chaired the Singapore Examinations and Assessment Board (SEAB) and was a member of the Institute of Technical Education Board of Governors.

For her contributions to Singapore's education system, Ms Seah received the Public Administration Medal (Bronze) in 1991, the Public Administration Medal (Silver) in 1997 and Public Administration Medal (Gold) in 2007.

**"You live well when you contribute much."**

In recognition of her accomplishments and contributions, the Faculty of Science honours Ms Siah Jiak Choo with the 2009 Distinguished Science Alumnus Award.

## **Distinguished Science Alumni Awards 2009**

**SEET Ai Mee, BBM**

**PhD 1969 Clinical Biochemistry**

**Director, Jade Technologies (S) Ltd**

**Former Minister of State for Education and Community Development**

**Former Acting Minister for Community Development and Sports**

Under a Colombo Plan scholarship, Dr Seet Ai Mee graduated with First Class Honours in Biochemistry from the University of Adelaide in 1965 before taking a PhD programme in Clinical Biochemistry at University of Singapore. She went on to build up a successful career spanning 12 years in Singapore's Ministry of Health and the Singapore Institute of Standards and Research (SISIR), a predecessor to today's SPRING Singapore. During this period, she authored 24 scientific papers in refereed international and local journals in the areas of Biochemistry, Clinical Biochemistry and Food Chemistry before she moved on to establish a medical laboratory practice.

In 1988 Dr Seet stood for election and became Member of Parliament for Bukit Gombak constituency. Later that year, she was appointed Minister of State, with oversight for the Community Development and Education Ministries. She moved on to become the Acting Minister for Community Development in 1991 before stepping down from the political area to take on an appointment as a Senior Visiting Fellow in NUS Institute of South-East Asian Studies. In 1992 she co-founded Dover Park Hospice, an institution for which she has remained in close association with since.

Dr Seet continued her successful career with additional board-level and directorship appointments in many charity and public organizations. These include the Singapore Hospice Council, the Hospice Care Association and AM Laboratories Pte Ltd. She was equally in demand on the corporate front, holding independent directorship positions in a number of household name companies like Courts (Singapore) Ltd, Noel Gifts International Ltd, Datacraft Asia Ltd, Jade Technologies Singapore Ltd, and others.

On a personal level, Dr Seet has written 6 articles on Primary School Science Education, and undertakes research, development and authoring work on Creative and Interactive Science programmes for Discovery Vacation Camps. She also continues to pursue her passions in Science education and Hospice leadership.

For her contributions to society, Dr Seet received the Public Service Star Award in 1997 and was appointed a Justice of the Peace the following year.

**"Don't just love Science -- be passionate in your love, for it is people with passion who are not only the great achievers but also the ones who pass their love to those around."**

In recognition of her accomplishments and contributions, the Faculty of Science honours Dr Seet Ai Mee with the 2009 Distinguished Science Alumni Award.

**Distinguished Science Alumni Awards 2009**  
**TAN Shook Fong**  
**BPharm(Hons) 1965**  
**Former Chief Pharmacist, Ministry of Health**  
**Former President and Registrar, Singapore Pharmacy Board**

Mrs Tan Shook Fong joined the Government Pharmaceutical Service as a pharmacist in Singapore General Hospital in 1967. She rose through the ranks to become Head Pharmacist in 1979. In 1990, she took on the position of Deputy Director, Pharmaceutical Department at Ministry of Health, and subsequently was promoted to Chief Pharmacist, and Director, Pharmaceutical Department in 1995. By statute, she was also the President and Registrar of the then Singapore Pharmacy Board. In these capacities, she had oversight of the entire pharmaceutical service for the nation. When the Health Sciences Authority (HSA) was formed, she was also appointed Special Pharmaceutical Advisor.

Mrs Tan's significant contributions to pharmacy practice in Singapore included the modernization of the hospital pharmacy in design concepts, computerisation, supplies, drug information and introduction of ready-to-use dispensing packs, customised total parenteral and enteral feeds. Alongside these accomplishments, she has published 32 scientific papers and a number of handbooks for use at hospitals, and presented her research papers at international conferences.

As the Chief Pharmacist, safety of medications and raising standards of pharmaceutical care to patients were her top priorities. Legislations were introduced for the control of smoking, cosmetics and Chinese Proprietary Medicine. She leveraged the Registration of Drugs to meet international standards and set up a centralized Drug Information Unit.

In recognition of her dedicated and exemplary service in her field, Mrs Tan was awarded the Public Administration Medal (Silver) in 2003. Reflecting her multi-faceted talent, she has also been bestowed awards and honours by the Community Chest of Singapore, National Quality Circle Convention and the Public Service Quality Convention.

After her retirement in 2003, Mrs Tan continued to be active in the pharmacy field. She held various positions including Chairperson of the Singapore Pharmacy Board Continuing Pharmacy Education Accreditation Committee, Consultant Pharmacist at Haw Par Healthcare Ltd and Advisor to Singapore Pharmacy Board and Pharmaceutical Society of Singapore. Mrs Tan is also Honorary Secretary of Friends of the Museums Singapore.

**"Passionately seek knowledge, continuously seek knowledge and stay relevant."**

In recognition of her accomplishments and contributions, the Faculty of Science honours Mrs Tan Shook Fong with the 2009 Distinguished Science Alumni Award.

## **Outstanding Science Alumni Award 2009**

**ANG Hui Gek**

**BScPharm 1981**

**Chief Pharmacist, Ministry of Health**

**Registrar, Singapore Pharmacy Council**

Ms ANG Hui Gek started her career as a pharmacist in Mount Alvernia Hospital in 1982. She then joined the National University Hospital (NUH) as a Senior Pharmacist in 1985. Here, in addition to being a pioneer in clinical pharmacy practice, she had the privilege of setting up the first cytotoxic reconstitution laboratory at the hospital's Oncology Centre in 1988. The following year, Ms Ang joined the Singapore General Hospital (SGH) where she rose to become the Assistant Pharmacy Manager in 1992 and then Pharmacy Manager in 1994. In 2002, she took on the position of Assistant Director, Allied Health Division also at the Singapore General Hospital and was promoted to Director, Allied Health Division in 2003.

Ms Ang has served as Chief Pharmacist, Ministry of Health since 2003. With this appointment, she was also the President and Registrar of the then Singapore Pharmacy Board until 2008. With the passing of the new Pharmacist Registration Act in 2007, she continues to serve as the Registrar for the new Singapore Pharmacy Council. Ms Ang has been actively involved in the drafting of this new Act right up to its implementation when the Singapore Pharmacy Council was corporatized as a statutory board in 2008.

Under her leadership, the Council's major achievements include the implementation of the Continuing Professional Education (CPE) framework, Preceptorship and Mentoring framework, and the Pharmacist's Oath. She also initiated the Singapore Pharmacy Council's Competency Examination as part of the entry requirements for all new pre-registration pharmacists and overseas pharmacists into the pharmacy profession in Singapore.

As a much sought-after domain expert, Ms Ang has had more than 40 speaking engagements, presentations and publications in her career. She sits on the Advisory Committee of Temasek Polytechnic's Applied Science School, as well as the Advisory Board of the SGH Postgraduate Allied Health Institute. She also serves as Advisor to the Singapore Pharmaceutical Society.

For her achievements and contributions to field of Pharmacy in Singapore, Ms Ang was a recipient of the Lucy Wan Outstanding Pharmacist of the Year Award in 1998. More recently in 2008 and 2009, she was conferred Spring Singapore's Excellent Service Award in both the Silver and Gold categories.

**"It is not your aptitude, but your attitude that determines your altitude." -- Zig Ziglar**

In recognition of her accomplishments and contributions, the Faculty of Science honours Ms Ang Hui Gek with the 2009 Outstanding Science Alumni Award.

## **Outstanding Science Alumni Award 2009**

**ANG Kok Tian**

**BSc(Hons) 1986 Physics**

**Chairman and Managing Director, ASL Marine Holdings Ltd**

**President Pei Hwa Alumni Management Committee**

Mr ANG Kok Tian graduated from NUS in 1986 with a BSc (Hons) majoring in Physics. He was taken into the family business, a local hardware company dealing primarily in trading scrap steel materials, and put in charge of its administration, purchasing and marketing portfolios. As the company diversified steadily and transformed itself into a major player in the marine services industry, Mr Ang took on more responsibilities by taking charge of the ship-building division and all aspects of the shipyard's operations, including estimations, negotiations and contract finalisation.

His extensive knowledge and experience in the industry made him the company's ideal choice for the position of Executive Director in 2000, and, thereafter, Chairman of the Board and Managing Director since 2003, when he successfully led the company through its listing on the Singapore Stock Exchange.

Today, ASL Marine Holdings Ltd is a vertically-integrated marine services group principally engaged in shipbuilding, ship-repair, ship-chartering and other marine related services, catering to customers from the Asia Pacific, South Asia, the Middle East and Europe. As the point person for the Group, Mr Ang has oversight for the Group's business strategies and direction, corporate plans and policies as well as its general management. Under his leadership, the company enjoys annual revenues in excess of \$400 million.

Even as he reaps the harvest of a very successful career, Mr Ang has not forgotten his roots. He presently serves as President of Pei Hwa Alumni, leading a group of former students dedicated to continuing their relationship with and contributing to the success of their *alma mater*.

In recognition of his accomplishments and contributions, the Faculty of Science honours Mr Ang Kok Tian with the 2009 Outstanding Science Alumni Award.



## **Outstanding Science Alumni Award 2009**

**CHEN Pu**

**PhD 1991 Chemistry**

**Vice-President and General Manager, Rhodia Novacare Asia**

Dr CHEN Pu's association with NUS began when he enrolled as a PhD student with the Chemistry Department in 1987, under a research scholarship. Newly equipped with his PhD, Dr Chen proceeded to create a niche for himself in a career marked by a string of scientific and business achievements. He rose rapidly from entry-level Engineer and Chemist through middle-management positions to his present appointment as Vice-President and General Manager of MNC Rhodia Novacare Asia, picking up and soaking in the experience and expertise needed to manage the Asia operations of the MNC. At Rhodia, his leadership and management led the way for his team to win a string of innovation prizes for new products and customer-centricity. In 2004, he was appointed Global Business Director, a position that has oversight for a business and R&D segment that spans the world and generates revenue in excess of US\$200 million. His successes in this position led quickly to his present appointment as Vice-President and General Manager, in which he manages all aspects of the company's operations in Asia, Australia and Japan, and serves as Chairman or Board Director in eight affiliates.

Renowned also for his prolific research work, Dr Chen has 7 joint patents to his name. He has also authored or co-authored more than 10 papers in internationally acclaimed journals. He has shared his research at international science and business conferences.

**"Chemistry is our world! We improve people's lives, preserve resources and protect the environment through chemistry-based solutions."**

In recognition of his accomplishments and contributions, the Faculty of Science honours Dr Chen Pu with the 2009 Outstanding Science Alumni Award.

## **Outstanding Science Alumni Award 2009**

**Cheung Yin Bun**

**MSc 2003 Statistics**

**Head, Biostatistics, Singapore Clinical Research Institute**

**Professor, Duke-NUS Graduate Medical School**

**Adjunct Professor of International Health, University of Tampere, Finland**

Professor CHEUNG Yin Bun graduated with a Bachelor of Social Science (Honors) from the Chinese University of Hong Kong in 1992. Over the next decade, he developed a successful career in medical statistics and epidemiology, while concurrently and successfully obtaining an MSc in Medical Demography from University of London, a Graduate Diploma in Statistics from the Royal Statistical Society in the United Kingdom, a PhD in Paediatrics from University of Hong Kong and a MSc in Statistics from the National University of Singapore.

As a practicing epidemiologist and biostatistician he has worked in health service organisations and universities in Hong Kong, Singapore and the United Kingdom, and has participated in projects in African and Asian countries. He has taught courses in behavioral sciences, epidemiology, clinical trials and medical statistics, and served as Principal Investigator or Co-Investigator in numerous projects in the areas of Paediatric Epidemiology, Quality of Life and Outcomes Research, and Applied Medical Statistics. As a prolific writer, he has authored or co-authored numerous international scientific publications. The overall aim of his career is to improve child health internationally by utilising his knowledge in research methods and statistics.

Prof Cheung presently holds 3 major appointments as Head of Biostatistics in the Singapore Clinical Research Institute, as a Professor in Duke-NUS Graduate School of Medicine and as an Adjunct Professor of International Health at Finland's University of Tampere.

Despite his heavy professional commitments, Prof Cheung remains true to his passion to assist the less fortunate in society. In 2005 he joined the Oxfam charity fund raising event in England and walked 100 km in 21 hours, raising 5,000 sterling pounds in the process. He also ran the Singapore marathon and half-marathon in 2008.

**"I've never seen a project that is easy from the beginning."**

In recognition of his accomplishments and contributions, the Faculty of Science honours Prof Cheung Yin Bun with the 2009 Outstanding Science Alumni Award.

## **Outstanding Science Alumni Award 2009**

**CHUA-LIM Yen Ching, PPA(G), PPA(P)**

**BSc 1980**

**Founding Principal, Northlight School**

**Deputy Director, Sciences Curriculum Planning and Development Division, Ministry of Education**

Mrs Chua-Lim Yen Ching is an exemplary teacher and educator, with more than 25 years of teaching and educational administration experience. She started her teaching career at Dunman Secondary School in 1981 where she taught Chemistry and Biology and was appointed Head of the Science Department in 1986.

Subsequently she took on the position of Vice-Principal in the autonomous Tanjong Katong Girls' School in 1991, and after a short four years, she was appointed principal of Zhonghua Secondary School. Here, her calling as an outstanding administrator rose to the fore as she first prepared, then led the school to its autonomous status in 1996.

In 1998, she was the Deputy Director, Sciences Branch, Curriculum Planning and Development Division, at the Ministry of Education. Here she led the review and development of the curriculum from the Primary to the Pre-University levels in several subjects -- Mathematics, Science, Technical Education, Computer Education, Physical Education, Commerce Education and Home Economics. After five years with CPDD, she was posted to be Principal of Shuqun Secondary School where she found much satisfaction implementing the policies she had a hand in crafting.

In 2006, she was involved in the conceptualization of the trail-blazing Northlight Secondary School, after which she took up the challenge to be its founding principal when the school took in its first batch of students for the enhanced vocational education programme in January 2007. Under her pioneering leadership, Northlight School today is credited as the leading school for students with difficulties handling the academic mainstream curriculum in the country.

Over and above her accomplishments, Mrs Chua is also a strong champion and supporter of the National Olympiad teams, and a Vice-President of the Singapore Girl Guides movement.

Mrs Chua received the Sng Yew Chong Medal for the Diploma in Education Programme in 1981 and the Ruth Wong Medal for the Diploma in Education Administration Programme in 1993. She was also awarded the Public Administration Bronze Medal and Public Administration Silver Medal in 2000 and 2007 respectively in recognition of her service to education.

Mrs Chua credits her successes to her professors in NUS, frequently recalling and being encouraged by their advice "we need to follow our hearts and be a blessing to those around us".

**"In whatever we do, we should follow our internal GPS and believe that we will make it happen no matter how difficult it is. Hope makes things possible and love makes it worthwhile."**

In recognition of her accomplishments and contributions, the Faculty of Science honours Mrs Chua Yen Ching with the 2009 Outstanding Science Alumni Award.

## **Outstanding Science Alumni Award 2009**

**Hew Choy Leong**

**BSc 1963**

**NUS Emeritus Professor**

**Deputy Director, Mechanobiology Research Centre of Excellence**

In an outstanding career spanning over 40 years and on both sides of the Pacific Ocean, Emeritus Professor Hew Choy Leong made his mark first as a prolific research scientist and teacher, and then as a distinguished and respected leader in academia.

His research accomplishments are varied -- from leading studies into the biosynthesis of insulin, to innovative leadership in the use of photoactivated labeling reagents, and pushing the boundaries in the study of fish antifreeze and the development of transgenic fish technology. He holds several patents which include the sex-specific probes for Pacific salmon and the production of fast growing transgenic salmon. As a much sought-after speaker and often-cited researcher, he has made outstanding contributions in the field of Biological Sciences with over 250 international publications.

Emeritus Professor Hew has been with the Faculty of Science since his appointment as Head of the Department of Biological Sciences (DBS) in 1999. During his tenure, he played a vital role in developing the University's capabilities, research initiatives and undergraduate programmes in the life sciences and graduate programmes in computational and systems biology through the Singapore-MIT Alliance. He was also instrumental in setting up of the Mechanobiology Research framework in NUS -- Singapore's 3rd Research Centre of Excellence. Through these and other accomplishments, he has built up and sustained DBS' strong reputation for quality research in the Asia-Pacific arena.

For his research achievements and dedicated service, Emeritus Professor Hew is a recipient of the APICS-Fraser Award for most Outstanding Scientist in Atlantic Provinces of Canada in 1980, the Outstanding Achievement Award from the Chinese Community of Ontario Incorporated in 1992 and the Merit Award, Education Foundation from the Federation of Chinese Canadian Professionals in 1993. More recently, he received Nanyang Technological University's Alumni Achievement Award in 2006.

天行健，君子以自强不息  
《易经·乾卦》

In recognition of his accomplishments and contributions, the Faculty of Science honours Emeritus Professor Hew Choy Leong with the 2009 Outstanding Science Alumni Award.

**Outstanding Science Alumni Award 2009**

**LIM Hock, PBM, PPA(P)**

**BSc(Hons) 1970 Physics**

**Director, Research Governance and Enablement**

**Office of Deputy President (Research and Technology), NUS**

**Director, Temasek Laboratories, NUS**

**Professor, Department of Physics, NUS**

**Chairman, NUS Coop**

Professor LIM Hock started his research career studying the dynamics of the atmosphere and ocean. He was the winner of the 1980 Young Scientist Award of the World Meteorological Organisation. In 1989, he was appointed to the George J. Haltiner Research Chair of the Naval Postgraduate School, USA.

In 1992, he was appointed the founding Director of the Centre for Remote Imaging, Sensing and Processing with funding from the Agency for Science, Technology and Research (A\*STAR). Under his leadership, CRISP has gained considerable recognition for its work on regional forest/plantation fires, ocean pollution, and earthquake/tsunami damages. In 1999, CRISP was accorded the distinction of being a winner of the Excellence for Singapore Award.

In September 2000, Prof Lim was appointed the founding Director of Temasek Laboratories at NUS, with funding from the Defence Science and Technology Agency. The Laboratory conducts research in selected areas critical to Singapore's defence and security, such as electromagnetics, aeronautics, and control & guidance. His effort was recognized by the Ministry of Defence with an Award for Outstanding Contribution to the MINDEF-NUS Joint R&D Cooperation Programme in 1995 and the Defence Technology Prize (Individual, R&D Category) in 2003.

Prof Lim has also been honoured with the National Day Awards -- the Public Service Medal for Community Service in 1992 and the Public Administration Silver Medal in 1999. In 2002, he was conferred the Chevalier des Palmes Académiques by the Republic of France. He is also proud to be a recipient of the Institute of Physics Singapore's President's Award in 2007 and to be elected a Senior Fellow by the Institute of Advanced Studies, Nanyang Technological University earlier this year.

**"I am grateful for the solid education in basic science and mathematics the Faculty provided me. I cannot hope for a better preparation for the many challenging tasks that I have been fortunate to undertake in the Civil Service and the University."**

In recognition of his accomplishments and contributions, the Faculty of Science honours Professor Lim Hock with the 2009 Outstanding Science Alumni Award.

## **Outstanding Science Alumni Award 2009**

**LOKE Kwong Hung**

**BSc(Hons) 1954, MSc 1955**

**Senior Research Consultant, Palm Oil Research Institute of Malaysia**

**Former Faculty Member, University of Malaya and University of Singapore**

Born and raised in Kampar, Perak, Dr LOKE Kwong Hung was among the first batch of science students in the University of Malaya in 1949. After obtaining his BSc (First Class Honours) degree and a Memorial Medal from the Royal Institute of Chemistry in 1953, he pursued his MSc under the supervision of the late Professor Kiang Ai Kim at the University. Soon after, he was awarded the Queen's Scholarship to pursue his PhD at the University of Edinburgh.

Dr Loke was appointed a lecturer in Biochemistry at the University of Malaya in Singapore in 1958. He has since served and carved out an illustrious career as a Lecturer, Senior Lecturer, Professor and Head of the Department of Biochemistry in the University of Malaya in Kuala Lumpur, and as a renowned researcher in Steroid Biochemistry and Palm Oil. He also served a stint as a Senior Teaching Fellow in NUS during the years of 1983 to 1988 and was a Research Consultant of the Palm Oil Research Institute of Malaysia between 1988 and 1994.

With his intimate knowledge of higher education and Chemistry in particular, Dr Loke, besides contributing a paper, took on the challenge of co-authoring the book "50 years of Science and Technology Development in Malaysia", published by the Malaysia Scientific Association. Presently, he sits on the editorial boards of the Journal of the Malaysian Institute of Chemistry and the Journal of the Malaysian Oil Scientists' and Technologists' Association. For these and his other contributions to Malaysian higher education in Chemistry, he was awarded the Gold Medal by the Malaysian Institute of Chemistry.

**"The truth is somewhere between the two extremes."**

In recognition of his accomplishments and contributions, the Faculty of Science honours Dr Loke Kwong Hong with the 2009 Outstanding Science Alumni Award.

**Outstanding Science Alumni Award 2009**  
**Low Choon Ming**  
**BSc(Hons) 1965 Physics**  
**Former High Commissioner to Australia & Malaysia**

Mr LOW Choon Ming graduated from the University of Singapore in 1965 with a Bachelor of Science (Honours) degree in Physics and joined the Singapore Administrative Service, from which he was posted to the Ministry of Foreign Affairs. Subsequently he studied at the School of International Affairs, Columbia University in New York in 1967/68 on a Fellowship awarded by the Carnegie Endowment for International Peace.

He served nine years as Singapore's High Commissioner to Australia (1980-86 and 1997-2000) and almost 7 years as High Commissioner to Malaysia (1990-97). His 33 years in the Singapore Diplomatic Service had also taken him on postings to Thailand, India, Egypt and Great Britain and travels on official missions to China, the Soviet Union, many Arab and South East Asian countries and Africa. He also held several senior appointments at the Ministry of Foreign Affairs when he was back home from his overseas postings. In 2005, he penned his experiences and reflections as a seasoned diplomat in the Institute of Policy Studies publication "The Little Red Dot".

Currently he enjoys travelling as a retiree and divides his time between his homes in the United States, Thailand and Singapore.

During his years in London, Canberra and Kuala Lumpur, spanning a period of almost 18 years, he helped NUS interview candidates for staff positions at the university. He also helped strengthen ties between the alumni of NUS and the University of Malaya through sporting activities and social interaction.

**"Live Fully Be Happy."**

In recognition of his accomplishments and contributions, the Faculty of Science honours Mr Low Choon Ming with the 2009 Outstanding Science Alumnus Award.

**Outstanding Science Alumni Awards 2009**  
**NG Boon Gay**  
**BSc(Hons) 1990, MBA 2001**  
**Director, Criminal Investigation Department**

Mr Ng Boon Gay majored in Mathematics during his undergraduate days and graduated BSc with First Class Honors in 1990. He joined the Singapore Police Force soon after and was appointed Assistant Superintendent of Police the following year.

In a successful and eventful career spanning 17 years, Mr Ng was promoted 8 times and took on key command and staff appointments in the Police Force. As Commander of Tanglin Police Division from 2001 to 2003, he was charged with the overall responsibility to police one of the busiest regions in Singapore encompassing Toa Payoh, Bukit Timah and Orchard Road. In 2003, he was appointed the Director of Manpower Department, Police Headquarters.

More recently, in 2008 Mr Ng was promoted to Senior Assistant Commissioner of Police and appointed Director of Criminal Investigation Department (CID). As Director CID, he is overall in charge of the principal agency responsible for the detection and suppression of major and specialised crimes. As a senior member of the Force, he is also the staff authority responsible for policy formation, operational strategies and system & technological development on all investigation matters in the Police Force.

In 1999, in recognition of his performance and potential, Mr Ng was awarded the Singapore Police Force Postgraduate Scholarship. Although the terms of the scholarship allowed him to pursue a Master degree in a foreign university of his choice, he opted for the NUS MBA programme with an exchange module with University of Michigan. He completed the programme and obtained his MBA in 2001 with excellent results, topping the class and being awarded the Reginald Quahe Medal.

Outside of the Force, Mr Ng is a board member of Certis Cisco, the largest and most established Auxiliary Police force in Singapore. He was also a former council member in the Northwest Community Development Council, and participates in clubs' and associations' activities.

**“You cannot choose how you die but you can choose how you live. So we better live life to the fullest.”**

In recognition of his accomplishments and contributions, we honour Mr Ng Boon Gay with the 2009 Outstanding Science Alumnus Award.



**Outstanding Science Alumni Award 2009**  
**SAW Phaik Hwa**  
**BSc (Hons) 1978 Chemistry**  
**President and CEO, SMRT Corporation Ltd**

Ms SAW Phaik Hwa has a Bachelor of Science (Honours) in Biochemistry from the National University of Singapore and an advanced management programme at the University of Hawaii. She is presently the President and CEO of SMRT Corporation Ltd, a leading multi-modal public transport operator in Singapore. With her extensive experience in international corporate business, she offers a fresh approach to the way transport services are managed and operated in Singapore. She is instrumental in the development and implementation of key initiatives in the SMRT group of companies. This includes the transformation of MRT stations into lifestyle hubs as well as the broadening of SMRT's geographical footprint with a presence in the Middle East which serve as springboards to opportunities in the region.

A strong advocate for workers' continuous skills upgrading and development, and a champion of good industrial relations, Ms Saw received the Medal of Commendation Award at the NTUC May Day Awards 2007. For her leadership in redefining the way SMRT operates, the services it offers and the effective and innovative people practices in place, Singapore Human Resources Institute presented her with the Leading CEO Award in 2005.

Ms Saw sits on the Singapore Management University Board of Trustees, The Esplanade Board of Directors, the National Environment Agency Board of Directors, Board of Trustees for the Tan Tock Seng Hospital Community Charity Fund, Board of Trustees for the Youth Business Singapore, Singapore Totalisator Board as a Member of the Sports Sub-Committee and is a Council Member of the Singapore-Guangdong Collaboration Council.

An ardent supporter of life arts, Ms Saw is Advisor to the Singapore Life Art Society. She is also an ardent practitioner in tai chi and sits on the Council as Vice President for both Singapore Jian Chuan Tai Chi Chuan Physical Culture Association and the Executive Committee of the International Wu Style Tai Chi Chuan Federation. She was appointed Governor for Singapore & Malaysia for the international body of Wu's Tai Chi Chuan Academy, as well as 3rd Vice Chairman of Singapore Wushu Dragon & Lion Dance Federation.

**"Be a driver, not a passenger. Define your journey and you will be surprised where life takes you."**

In recognition of her accomplishments and contributions, the Faculty of Science honours Ms Saw Phaik Hwa with the 2009 Outstanding Science Alumnus Award.