

## **Outstanding Science Alumni (OSA) Awards – Chemistry Alumni**

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## Outstanding Science Alumni Awards 2014

**GOH Suat Hong**

**BSc 1964, DSc 1993**

**Emeritus Professor, Faculty of Science, NUS**

Emeritus Professor Goh Suat Hong received his MSc and PhD in polymer science from the University of Akron, USA. He started his academic career as a lecturer at Nanyang University in 1966, and retired as a professor in 2008. Following his retirement, he was conferred an emeritus professorship. His dedication and excellence in teaching has won him many teaching awards. He was placed on both the Faculty Teaching Excellence Award Honour Roll and the Annual Teaching Excellence Award Honour Roll in 2007.

Emeritus Professor Goh's research on polymer blends, polymer nanocomposites and biomaterials has led to the publication of 310 papers and 8 book chapters. He is a co-inventor of four patents. His research achievements have been recognized by a number of awards including National Science Award in 1997, ASEAN Committee of Science and Technology Achievement Award in 1998, NUS Staff Achievement Award in 1998, Federation of Asian Chemical Societies Citation Award in 2003, Outstanding Alumni Award (from the Department of Polymer Science, University of Akron, USA) in 2007, and Nanyang Alumni Achievement Award (from Nanyang Technological University) in 2009.

Emeritus Professor Goh served the Singapore National Institute of Chemistry as council member (1977-1979, 1986-1988) and honorary secretary (1982-1986), and the Singapore National Academy of Sciences as council member (1982-1986). He received the Singapore National Institute of Chemistry Service Award in 1994.

**“Learn extensively, inquire thoroughly, think carefully, discern clearly, and implement wholeheartedly.”** ~ From Doctrine of the Mean

In recognition of his accomplishments and contributions, we honour Emeritus Professor Goh Suat Hong with the 2014 Outstanding Science Alumnus Award.

## **Outstanding Science Alumni Award 2014**

**Audrey LIOW-TAN Seok Hoong**

**BSc (Hons) 1981**

**Regional Business Head, Pacific Rim and South East Asia, Nestlé Nutrition**

Mrs Audrey Liow assumed the position of Regional Business Head of Nestlé Nutrition in Jan 2005, with the focus in Infant Nutrition. Nestlé Nutrition strives for leadership in innovation and aims to help nurture a healthier generation through science proven nutrition for mothers and infants in the first 1000 days of life. In her capacity as Regional Business Head, Nestlé Nutrition, Mrs Liow is responsible for growing the Infant Nutrition business within the Pacific Rim and South East Asia Region. She manages about 600 people in the Region. She is based in Singapore with a Regional team supporting the markets. Her role includes providing guidance and direction, with special focus to support her team to win in the markets. She has full profit and loss responsibility for the Infant Nutrition business in South East Asia and Pacific Rim. She reports directly to the Global Head of Infant Nutrition, who is based in Nestlé HQ, Vevey, Switzerland.

Prior to her role as Regional Business Head, Mrs Liow was the Managing Director of Nestlé Singapore (Pte) Ltd from 2001 to 2004. Starting in Singapore with Nestlé as Brand Executive in 1988, Mrs Liow's first overseas appointment, with Nestlé's head office in Switzerland as Marketing Advisor in the Nutrition Strategic Business Division for the Asia Oceania region in 1996, saw her implementing nutrition strategies and developing new markets in Asia. Subsequently, she became Head of the Nutrition Unit in Nestlé China in 1998. Preceding her appointment as Managing Director of Nestlé Singapore (Pte) Ltd, Mrs Liow was Regional Marketing Manager, Nutrition Business division for the Malaysia / Singapore region in mid-2000.

Mrs Liow graduated from the National University of Singapore with a Bachelor of Science degree majoring in Chemistry. She also holds a Diploma in Management Studies from the Singapore Institute of Management. She started her career as a Ladies' Merchandise Buyer at Isetan Singapore, followed by another 5 years as Quality Control Officer at Premier Milk Singapore, part of F&N group. She has completed 26 years of service with Nestlé in 2014.

**“Nurturing a Healthier Generation through Science Proven Nutrition.”**

In recognition of her accomplishments and contributions, we honour Mrs Audrey Liow with the 2014 Outstanding Science Alumnus Award.

## Outstanding Science Alumni Award 2014

**James TOI Huat Chye**

**BSc 1985**

**Chief Operating Officer (Ambulatory), Singapore General Hospital**

Mr James Toi Huat Chye pursued his undergraduate studies at the Faculty of Science, NUS. He graduated in 1985 with a Bachelor of Science in Chemistry and Biology. Upon graduation, he started his working career in sales and marketing with the private sector. In his 10 years with the private sector, he worked for companies ranging from multi-national company to small medium sized company. In 1989, he continued to further his studies parttime and graduated with a Masters' degree in Business Administration (USA) in 1991.

After a successful career in the private sector, Mr Toi did a mid-career switch and joined the public healthcare. He started as a Manager with the Singapore General Hospital (SGH) in 1995. In 1996, he was seconded to the Singapore Gamma Knife Centre (SGKC) as its first General Manager. In 1997, he joined the National Heart Centre Singapore (NHCS) and became its first Chief Operating Officer (COO). Mr Toi was seconded to the Intermediate and Long Term Care Sector in August 2008 and was the Chief Executive Officer (CEO) of Ren Ci Community Hospital, Nursing Home and Long Term Care until March 2011. Then he returned to SGH where he first started his healthcare career.

Mr Toi had successfully established himself in the healthcare industry for the past 19 years and continues to make significant contributions to the industry in Singapore.

**“Life is not measured by the number of breaths we take, but by the moments that take our breath away.”**

In recognition of his accomplishments and contributions, we honour Mr James Toi with the 2014 Outstanding Science Alumnus Award.

## **Outstanding Science Alumni Award 2011**

**LEE Fook Kay**

**BSc (Hons) 1984, PhD 1990**

**Chief Science and Technology Officer, Ministry of Home Affairs Singapore**

Dr Lee Fook Kay is the Chief Science and Technology Officer (CSTO) in the Ministry of Home Affairs Singapore (MHA). He now leads the technology development efforts of the Ministry of Home Affairs and the Home Team in counter terrorism and law enforcement. He has more than twenty years of experience in the Chemical, Biological, Radiological and Explosive (CBRE) domain and is instrumental in the strategic building and development of CBRE capabilities in Singapore.

He started his career in 1989 as Research Scientist at DSO National Laboratories, an affiliated organization under the Ministry of Defence. From 1993 to Oct 2003, Dr Lee headed the Centre for Chemical Defence in DSO. Subsequently he was appointed the Deputy Director of Defence Medical and Environmental Institute at DSO to manage defence research and development in the areas of environmental protection, biomedical sciences and human performance. He was concurrently the Director of the Chemical, Biological and Radiological Programme at DSO National Laboratories before leaving to join the Ministry of Home Affairs. Today, he remains a key advisor in the National Authority (CWC) Advisory Board.

Dr Lee is well regarded in both the local and international scientific communities. These range from technology institutes in chemical and biological defence to international bodies like the Organisation for the Prohibition of Chemical Weapons (OPCW), the Expert Group for the Biological Weapons Convention and the United Nations Monitoring, Verification and Inspection Commission (UNMOVIC). Dr Lee's pioneering efforts in building Singapore's CBRE defence research have won him several awards, including the Defence Technology Prize and the Public Administration Medal (Silver). He has also been conferred the credentials of Chartered Chemist by the Royal Society of Chemistry.

**"I strongly believe that Science can secure our lives."**

In recognition of his accomplishments and contributions, we honour Dr Lee Fook Kay with the 2011 Outstanding Science Alumnus Award.

## **Outstanding Science Alumni Award 2011**

**ONG Toon Hui**

**BSc (Hons) 1989**

**Deputy Secretary, Ministry of Community Development, Youth and Sports**

Ms Ong Toon Hui is the Deputy Secretary of the Ministry of Community Development, Youth and Sports. She oversees policies on social safety nets, family development, successful ageing, disability, social sector development, rehabilitation and residential services gambling safeguards.

Ms Ong graduated from the National University of Singapore with a Bachelor of Science (Honours) in Chemistry in 1989 and obtained her PhD (Chemistry) from the University of Cambridge, United Kingdom in 1993.

Ms Ong has been with the Civil Service for about 18 years. Her previous postings included Ministry of Health, Ministry of Education and Public Service Division (Prime Minister's Office). In PSD, she oversaw leadership development and human resource policies in the Singapore Civil Service.

Ms Ong also serves on the National Council of Social Service, Housing and Development Board, Singapore Sports Council, Board of National Volunteer & Philanthropy Centre, Casino Regulatory Authority Board, and the School Advisory Board in Pierce Secondary School.

**"Be faithful in small things because it is in them that your strength lies."**

In recognition of her accomplishments and contributions, we honour Ms Ong Toon Hui with the 2011 Outstanding Science Alumnus Award.

## Outstanding Science Alumni Award 2009

**CHEN Pu**

**PhD 1991 Chemistry**

**Vice-President and General Manager, Rhodia Novincare 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 Novincare 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**

**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**

**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

### 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.

## Outstanding Science Alumni Awards 2007

### CHONG Yoke Sin

**BSc 1978, BSc(Hons) 1979, PhD 1984**

**CEO, National Computer Systems**

Coming from a humble background, CHONG Yoke Sin was spurred to excel in her education. She graduated with BSc(Hons) and PhD degrees in Chemistry from the National University of Singapore in 1979 and 1984, respectively. In her quest for self improvement, she subsequently completed the Advanced Management Program at the Harvard Business School in 1998.

Upon graduation from NUS in 1983, she joined IBM Corporation as a systems engineer where she sold and implemented solutions on mainframes to customers in the banking, government and region. After nine long years, she joined Hitachi Data Systems in 1992 where she looked after its consulting and systems implementation business for four years. Dr CHONG joined the National Computer Systems (NCS) in 1996 starting as General Manager for Business Development and setup its sales and contracts processes for the newly corporatised NCS. With her commercial experience and background, she was a key member in defining the company's directions and has led the NCS teams to win and deliver major IT projects, both locally as well as overseas. She was also active in the company's branding strategy as well as its continuous company-wide initiatives, playing an instrumental role in the growth of the company since corporatisation in 1996.

She subsequently progressed to assume the position of Chief Operating Officer and head of NCS' regional IT and communications engineering group. Nine years later, in 2005, in recognition of her contributions and capabilities, Dr CHONG was appointed the Chief Executive Officer of NCS, leading a team of 3000 professionals in one of Singapore's largest home grown information technology companies to become a forerunner IT and communications engineering services provider in the region. Under her successful realm, the business of NCS has grown tremendously with new major projects in Australia, Brunei, Hong Kong, Middle East, Sri Lanka, Maldives and Fiji.

A well-respected veteran in the IT industry, she is active in several IT and business associations. Dr CHONG is Vice-Chairman of the Singapore IT Federation (SITF) and also Chairman of the eGovernment Chapter of SITF. As eGov Chair, she leads Singapore companies in their forays for business with overseas Governments. She is also a member of the SICC IT advisory committee. Dr Chong also oversees several national project implementations and is member of many steering committees.

She also helps with university and polytechnic curriculum advice, and is a member of the NUS School of IT Advisory Council, the Ngee Ann Polytechnic School of IT advisory board and also Chairman of Innova Junior College. Recently, she was appointed to the Women's Leadership Board of the Kennedy School of Government, Harvard University where she advises on the public policy curriculum and programs of the KSG.

**"It is not the years in your life but the life in your years that counts."**

## Outstanding Science Alumni Awards 2006

### **KWOK Kain Sze**

**BSc 1967, BSc(Hons) 1968**

**Chief Scientific Officer (Food & Beverage), Fraser & Neave Ltd**

KWOK Kain Sze graduated from the University of Singapore with an honours degree in 1968. He obtained a PhD degree in 1972 from Cornell University, USA, and has over ten published papers.

Dr KWOK joined the Fraser & Neave Group of Companies in 1981 and is currently the Chief Scientific Officer (Food & Beverage). He started his career with Fraser & Neave (S) Pte Ltd as Chief Chemist and was appointed as Research & Development Manager in 1982. In 1990, he was promoted to General Manager, Operations & Research. During the period 1992 to 1996, he was appointed Vice-President & Technical Director of F&N Coca-Cola (S) Pte Ltd and held directorship positions in subsidiary companies in Vietnam, Cambodia, Sri Lanka and Nepal. Dr KWOK returned to F&N Corporate in 1997 to become General Manager, Manufacturing and R&D of the Dairies Division before taking up the positions of Director - Corp R&D and General Manager (Strategic Procurement) which cover both the dairies and soft drinks business activities of Fraser & Neave.

Over the years, the new products developed by Dr KWOK's technical team are marketed under the brands F&N, 100Plus, Seasons, Magnolia, Meadow Gold and Daisy, all of which are well known household names in the region.

Dr KWOK was elected a fellow of Singapore National Institute of Chemistry in 1995. He has served as a member in various government and institutional bodies such as the Scientific Advisory Committee of Department of Scientific Services, Ministry of Health, the Consultative Committee of Faculty of Science Biological Sciences, National University of Singapore, and the Board of Management of the Institute of Science & Forensic Medicine. He was also a member of the Expert Committee on Food & Agro technology in the Ministry of Trade & Industry and the Advisory Committee for the Institute of Molecular & Cell Biology. Dr KWOK is a member of the board of directors of the following companies: Interflavine Pte Ltd, Myanmar Brewery Ltd, F&N Vietnam Foods Co Ltd, F&N Coca-Cola Beverages Sdn Bhd, F&N Boncafe Beverages Pte Ltd, F&N United Ltd, F&N Foods Pte Ltd, F&N-DCH Holdings Pte Ltd and Red Lion Holdings Pty Ltd. He is also Deputy Chairman of China Dairy Group Ltd, a company listed on the Singapore Stock Exchange.

Dr KWOK was married to the late Dr WONG Sau Fong and has three daughters.

**"Getting a good mentor is the best thing that can happen to a person's life. Conversely, it is also most satisfying to be accepted as a mentor by others. A good mentor is both 'teacher', guardian and, most importantly, a life-long friend."**

## **Outstanding Science Alumni Awards 2006**

**Irene TAN-GOH Ek Ek**

**BSc 1970**

**Deputy Manager, Quality Assurance of the Group R&D Department in Prima Ltd  
President, Singapore Institute of Food Science and Technology (February 2003 -- May  
2006)**

Mrs Irene TAN has extensive knowledge in the quality control and assurance in food beverages and dairy products and provided quality control and technical support to other plants overseas.

Starting as an assistant chemist in Lam Soon Cannery Ltd in 1970, she moved on to work as Quality Control Manager in Wander Singapore Pte Ltd in 1971, where she took charge of the setup of the QC system in the Singapore branch and thereafter represented Switzerland headquarters and several foreign branches in QC system and training. In her subsequent cross to Asia Dairies Pte Ltd (F&N Foods) in 1991, she centralized dairy operations and built an effective system to perform tests to meet local and legal regulatory standards. She had a short stint in the academic line between 1997 and 2001, as a lecturer in Temasek Polytechnic where she shared her experiences in the field of QC / QA and management systems to the students.

She is Deputy Manager, Quality Assurance of the Group R&D Department in Prima Limited, the only flourmill in Singapore. She is in charge of the quality control and assurance of all the products, ranging from wheat, flour, bread, buns, pastries, premixes and even retorted pouches of shelf stable paste for the local and overseas markets.

She currently also oversees the Management System ISO 9001:2000 & Hazard Analysis and Critical Control Point (HACCP) for Prima Limited and her subsidiaries.

Mrs TAN serves as President of the Singapore Institute of Food Science and Technology (SIFST) for 4 terms from 2002 to 2006. Her other professional membership include the Singapore Professional Centre (Member / Alternate Member of Board of Trustees 2005 / 2006).

**"Success is a journey, not a destination."**

## Outstanding Science Alumni Awards 2006

### TAN Hui Boon

**BSc(Hons) 1963**

**Senior Vice-President, Singapore Airlines**

TAN Hui Boon graduated from the University of Singapore with a Bachelor of Science (Honours) in Chemistry. He had his secondary education at Raffles Institution. After graduation he joined the Industrial Research Unit under the Economic Development Board as a chemist for over three years. He then received a Commonwealth Scholarship to pursue further studies in UK. He obtained a Postgraduate Diploma in Chemical Engineering and a Masters of Science (BioChemical Engineering) with Distinction from University College, London University. He returned to the Singapore Institute of Standards and Research as an Assistant Director.

In 1971, he obtained his professional membership of the Institution of Chemical Engineers, UK. In 1974, after completing his bond, he joined the Singapore Airport Terminal Services (SATS), a fully owned subsidiary of Singapore Airlines as the Administrative Manager and rose to the rank of Divisional Manager in SATS Cargo in 1978 and General Manager of Administration in 1980. By 1984, he was appointed the Chief Executive Officer of SATS Catering Pte Ltd. His illustrious career continued as he undertook the position of Director of Finance at Singapore Airlines Ltd (SIA) from 1989 to 1994, the first science graduate to do so.

In 1994, he was appointed the Chief Executive of SATS Airport Services. In 1998, he returned to SIA as the Senior Vice President (Special Projects) involved in strategic investments, an appointment he held until he retired in 2000.

In his 27 years at SIA, he attended management programme at Sloan, MIT, and Harvard and the finance programme at IMD in Switzerland. During his career in the SIA Group, he served on the Board for a number of companies including Asia Airfreight Company in Hong Kong, Beijing Aviation Ground Services in Beijing, Raffles City and R.C. Hotels in Singapore. After his retirement he also served on the Boards of Changi International Airport Services and China Aviation Oil until recently.

**"After spending two thirds of my career in management, I strongly believe that the discipline in Science provided me with grounding and equipped me for my work in corporate management and finance."**

## **Outstanding Science Alumni Awards 2006**

**YU Rongqing**

**PhD 1999**

**Founder of Suzhou Goldengreen Technologies Ltd, Suzhou, China**

YU Rongqing obtained his Bachelor and Master Degrees from Xiamen University, China in 1989 and 1992, respectively. From 1992 to 1995, he was as a lecturer in the Chemistry Department of Xiamen University. Thereafter, he pursued further studies in the University of Singapore, and received his Doctorate in 1999. With his background in materials chemistry, Dr Yu set up a high-tech manufacturing company Suzhou Goldengreen Technologies Ltd in 2002. Based in Suzhou, China, the company specializes in the production of high-end organic photo-conductors (OPCs) catering for laser printers, digital copiers, laser fax and laser multi-function machines. Supported by key government science and technology projects, Suzhou Goldengreen Technologies Ltd has developed two high-volume fully-automation production lines with strong in-house design, research and development capabilities.

Dr YU has since expanded the company into the largest professional manufacturer in high-end OPC in China. With several patents on OPC technologies registered, he has also led Suzhou Goldengreen Technologies Ltd into international imaging / printing markets, such as Southeast Asia, Arabian area, Europe, USA and South America.

## **Outstanding Science Alumni Awards 2005**

**CHUA Yong Hai**

**BSc 1965, BSc(Hons) 1966**

**Chairman, Lend Lease Asia Holdings Pte Ltd, Asia-Pacific Investment Co Ltd, Stanbridge International Pte Ltd**

**Non-Resident Singapore High Commissioner to Namibia and the Kingdom of Swaziland**

CHUA Yong Hai was a Singapore government scholar and graduated from the then University of Singapore with a first class Honours degree in Applied Chemistry and graduate diploma in Business Administration. He subsequently pursued his PhD degree in Chemical Engineering in the University of New South Wales under an Australian Commonwealth fellowship.

Dr CHUA had a distinguished career in the Singapore government administrative service from 1970 to 1982, where he held several senior positions including the Director of Investments in the Ministry of Finance and concurrently the first General Manager of Temasek Holdings Pte Ltd. He moved to the private sector in 1982 and was Group Managing Director of United Engineers Ltd before joining Egon Zehnder International in 1985 to undertake senior management recruitment in Asia Pacific region. In 1989, he was appointed the Group General Manager of Suntec City Development Pte Ltd where he managed the successful completion of the S\$2 billion convention, exhibition, office and retail development project. He also was a director of several listed companies including Lend Lease Corporation Ltd and Goodman Fielders (Singapore) Ltd. He is currently Chairman of Asia-Pacific Investment Company Ltd and Stanbridge International Pte Ltd and continues to be a director of several listed and nonlisted companies.

Dr CHUA has been active in social and community work for which he was awarded the Public Service Medal and the Public Service Star by the President of Singapore. He was appointed Singapore's non-resident High Commissioner to the Republic of Namibia in 2000 and the Kingdom of Swaziland in 2002 and was previously the Honorary Consul of the Republic of Uruguay to Singapore. He is the co-patron of the Australian (Singapore) Chambers of Commerce and is a Justice of the Peace.

**"Humility is a great virtue. Understand your strengths and weaknesses and don't ever think that you have arrived."**



## **Outstanding Science Alumni Awards 2005**

**Natasha KWAN Yuen Ching**

**BSc 1985**

**Deputy General Manager, OEM Multi-National & Alliance, APAC/GCR & Japan Region, Microsoft Singapore**

Natasha KWAN majored in Chemistry in the National University of Singapore and graduated with a Bachelor's degree in 1985. Ms KWAN was recruited to the multinational corporation IBM in the field of sales and marketing. She worked in IBM for 7 years driving the channel sales and development and personal computer system.

She joined Microsoft Singapore in 1992, where she has established herself and risen through the ranks rapidly. She started as the Business Systems Manager to build the emerging Windows NT server business. In 1998, she was appointed Director, Enterprise Business Group, before being further promoted to Managing Director in 2001. Ms KWAN has been a key contributor to Microsoft's success in Singapore and is credited with giving .Net momentum in the Singapore marketplace, launching Microsoft's XML Web services centre in Singapore and establishing the .Net--MySingapore partnership with the Singapore Government. She also led the launch of Windows XP and Office XP in Singapore and established Microsoft Singapore's Giving Programme, a local community affairs initiative. In recent years, she has been tasked to play a key role in Microsoft's expansion into the Asia Pacific region. In 2002, she was appointed the General Manager for Customer and Partner Experience for the Asia Pacific region, and then the General Manager for Customer and Partner Loyalty, in which she was Microsoft Asia Pacific's customer and partner 'champion'. Currently, she holds the position of Deputy General Manager for OEM Multi-National & Alliance, APAC/GCR & Japan Region.

**"Small things done consistently in strategic places create major impact."**

## **Outstanding Science Alumni Awards 2005**

**KOH Lip Lin**

**BSc 1959**

**President, Singapore Association for Advancement of Science**

**Member of Parliament 1979--96**

**Dean of Science, NUS 1981—85**

KOH Lip Lin received his BSc degree from Nanyang University and PhD degree from Boston University. Dr KOH had taught at the Department of Chemistry at Nanyang University (from 1964 to 1979) and at the National University of Singapore (from 1980 to 1996). He was the first Dean of Science at the National University of Singapore, and had previously served as the Head of Department of Chemistry and Dean of Science at Nanyang University, before the merger of Nanyang University and University of Singapore. After his retirement from the Department of Chemistry, he was engaged as a part-time research fellow at CE Resources Pte Ltd, an NUS spin-off company. He re-joined the Department as an Adjunct Senior Research Fellow in 1992, offering selfless guidance to staff and students on solving crystal structures with his expertise.

Apart from his endearing contributions to the university, Dr KOH also provided his service to the public. From 1979 to 1996, Dr KOH was an elected Member of Parliament of Singapore, playing his part in national policies. He has also served the University as a member of the Council. He is currently the president of the Singapore Association for the Advancement of Science. From 1994 to 1997 he served as a co-editor of the scientific journal *Acta Crystallographica*.

## **Outstanding Science Alumni Awards 2005**

**LAN Weiguang**

**PhD 1995**

**Chairman/CEO, Sinomem Technology Ltd**

LAN Weiguang started his academic studies at Xiamen University in 1985. He was then offered the NUS graduate scholarship in 1992 and received his doctorate degree in 1995 in record time.

After graduation in NUS, Dr Lan returned to China to assume the position of Associate Professor at Xiamen University. He entered into the membrane technology business shortly after and the Suntar Membrane Technology Co Ltd, a Subsidiary of Sinomem Technology Ltd was incorporated in Xiamen in 1996. A year later in 1997, its Singapore subsidiary was set up due to his astute foresight of the importance of water purification and treatment in water-scarce Singapore.

Today, Sinomem has evolved into a multinational membrane technology specialist company with its headquarters in Singapore, providing advanced membrane material production, membrane equipment fabrication and membrane application solutions as an integrated membrane industry value chain package. It has successfully pioneered hundred innovative and proprietary membrane processes. Dr LAN holds the realm as its Chairman and CEO. In 2002, under Dr Lan's leadership, Sinomem was publicly listed with spectacular IPO results. With its present strong presence in China, Dr Lan is looking into expanding further into the South East Asia region and global market.

## **Outstanding Science Alumni Awards 2005**

### **LIEN Wen Sze**

**BSc 1970, BSc(Hons) 1971, PhD 1975**

**Group Manager, Culinary, Nestle R & D Center Singapore Pte Ltd**

LIEN Wen Sze graduated with a bachelor's degree in Mathematics and Chemistry from the University of Singapore. She continued to obtain her Ph.D. in Chemistry and a Post-Graduate Diploma in Business Administration from the same university.

She started her career in the Singapore Institute of Standards & Industrial Research (SISIR) for 7 years and her last position held was Manager of Analytical & Consultancy Services. She joined Nestle R&D Centre Singapore Pte Ltd in 1982, first as the Laboratory Manager in charge of Instrumental analytical laboratories to support in-house research projects and development of new analytical methods, before rising to the position of Culinary Support Manager. In this role, she led a team of professionals to create and industrialize new culinary products for Nestle group of companies in the Asia Pacific region covering 14 different countries. Her last 4 years were spent overseas in the Nestle R&D Centre Shanghai Pte Ltd as Head of Culinary Products & Consumer Practices starting up the R&D Centre in Shanghai from scratch; leading a team of technologists and chefs to develop culinary products for retail and food services consumers in Greater China Region. After this exciting stint, she is currently the Group Manager, Culinary, of Nestle R&D Centre Singapore Pte Ltd.

Dr LIEN Wen Sze is a fellow of the Singapore National Institute Chemistry and Royal Society of Chemistry & Chartered Chemists (UK). She also served as a council member in several SIFST councils. She was an organizing committee member of SIFST events, such as the Food Microbiology symposium and the 7th World Congress of Food Science & Technology, and sat on the Food Product Award Committee.

She has contributed greatly to food science education and training through aspects, such as being the supervisor of post-graduate students from various Chinese universities (2001 to 2005), the Honorary Professor of East China University of Science and Technology in Shanghai (2002 to date) and Advisory board member of Singapore Temasek Polytechnic, School of Applied Sciences (prior to 2001). Her other professional involvements include being the member of the International Life Sciences Institute (USA) and Advisor of functional food research program (prior to 2001).

**"Be profound in thinking but diligent in practice."**

## Outstanding Science Alumni Awards 2005

### Jane LIM-WEE Fong Thim

Co-owner/Marketing Director, Wee Hoe Cheng Chemicals Pte Ltd

Wee Hoe Cheng Sdn Bhd (Malaysia)

PT Lumindo (Indonesia)

BSc(Hons) 1972

Jane LIM-WEE majored in Chemistry & Zoology in the National University of Singapore and received her Honours degree in Chemistry in 1972. Ms LIM-WEE started her career as a pharmaceutical sales representative with American multinational Pfizer. She had intensive exposure and experience in sales, marketing, financial and cost accounting, human resources, logistics and Supply Chain management. In 1980, she was appointed to the Board of Directors of Pfizer Pte Ltd. However, her mind had been set to propel into business one day. In 1981, she returned to her family business in Civil Engineering. Together with her husband and co-owner, they took bold steps to refocus and remould the business into a chemical business, developing the successful Wee Hoe Cheng Chemicals Pte Ltd of today. The company has evolved to be a regional wholesaler, importer, regional stocklist and distributor of chemicals and food ingredients and additives from all around the world, with the latest count of 111 global business partners.

The company has its own building, sales and warehousing staff and operations in Singapore, Malaysia and Indonesia, with six business units supplying:

- Food, beverage and bakery ingredients and additives
- Consumable food products
- Pigments and additives for paints, concrete and plastics
- Magnetic media compounded chemicals and additives
- CD technology and materials support
- Specialty newlink

Ms LIM-WEE is currently the co-owner and Marketing Director of:

- Wee Hoe Cheng Chemicals Pte Ltd, Singapore
- Wee Hoe Cheng Sdn Bhd, Malaysia
- PT Lumindo, Indonesia

She travels to USA regularly, on the invitation of the USA Trade Council and the USA Dairy Council to represent our region in panel discussions, one-on-one meetings with manufacturers, exhibitions and technical conferences -- the most recent being the Whey Technical Conference in Chicago, 10-15 September 2005, attended by about 500 researchers and industry leaders from USA, Europe, Russia and Japan.

Ms LIM-WEE has made several contributions to the community, which include the setting up of the Wee Hoe Cheng Bursary Award at Ngee Ann Polytechnic for needy students. She has recently been invited as a guest speaker at the NUS Commencement 2005.

**"In a new and difficult business situation, when I take the first step, the next step reveals itself and after many steps, I find a pathway and usually a solution."**

## **Outstanding Science Alumni Awards 2005**

### **SIM Keng Yeow**

**BSc 1959, BSc(Hons) 1960, MSc 1961**

**Head, Department of Chemistry (1988--97)**

**President, Singapore National Institute of Chemistry (1975--78, 1992--96)**

SIM Keng Yeow obtained his BSc(Hons) degree in 1960 and MSc degree in 1961 from University of Malaya. Dr SIM obtained his PhD in 1964 at the University of London. Thereafter, Dr SIM returned to join the Department of Chemistry of the University of Singapore as a lecturer in 1964, before being promoted to Senior Lecturer in 1971 and to Associate Professor in 1977. He was appointed as Acting Head in 1988 and assumed formal headship from 1995 to 1996. He retired in 1997 and had been working part-time as an Associate Professorial Fellow until 2003. During his immense contribution as head, the Department achieved a status as a top and highly respected research entity not only in comparison with departments of chemistry in Asian universities but also in the world. He has contributed 2 US Patents and over 150 publications/conference papers, 108 of which are published in international refereed journals.

Dr SIM also took an active interest in the professional activities of chemistry throughout his academic career. He was elected to the Fellowship of the Royal Institute of Chemistry (RIC) (precursor of the present Royal Society of Chemistry, London) in 1972 and served in various capacities in the Singapore Section of the RIC. He was the president of this society and worked towards its voluntary dissolution in March 1973 so that the Singapore National Institute of Chemistry (SNIC), founded in 1970, could be the sole professional chemical body representing chemists in Singapore. He was elected as a Fellow of SNIC in 1973 and has served in various SNIC councils including the presidency during the periods 1975-1978 and 1992-1996. He was the Chairman of the Organizing Committee that organized the Asian and Pacific Chemistry Congress in 1981 hosted by SNIC. He also served as the Vice-President of the Singapore National Academy of Science in 1977. He represented SNIC at the Inaugural Meeting in Bangkok which led to the formation of the Federation of Asian Chemical Societies (FACS) in 1979 of which SNIC is a founder member. He was the FACS Treasurer (1983--1989) and Secretary General (1985--87) and was conferred the FACS Citation Award in 1995 for his contributions to the development of chemistry in Asia. SNIC conferred an Honorary Fellowship on Professor SIM in 2000 for his scholarship in natural products chemistry research, his leadership of the Department of Chemistry during a critical period of its history, and his immeasurable contributions to the Institute and other chemistry activities in Singapore and beyond.

**"Knowledge speaks; Wisdom listens."**

## **Outstanding Science Alumni Awards 2005**

### **TAN Eng Liang**

**BSc 1960, BSc(Hons) 1961**

**Rhodes Scholar / Olympian**

**Chairman, Board of Directors, WizVision**

**Senior Minister of State (1975--80)**

**Member of Parliament (1972--80)**

TAN Eng Liang was the first regional Rhodes Scholar, earning his doctorate from Oxford University. Dr TAN had a meritorious career in both the public and private sector. He was a Member of Parliament from 1972 to 1980, during which he served as the Senior Minister of State (National Development) from 1975 to 1978 and Senior Minister of State (Finance) from 1979 -1980. He also held numerous key positions including Member, The Court, University of Singapore; and the Chairman of Urban Redevelopment Authority, Singapore Quality and Reliability Association and Singapore Sports Council. In particular, he has made pioneering contributions in the development and management of sports in Singapore. He took charge of the Singapore Sports Council for 16 years from 1975 to 1991 and still contributes as the Vice President of the Singapore National Olympic Council and a Patron for Singapore Swimming Association.

Dr TAN represented Singapore in Waterpolo at the Olympic Games in Melbourne 1956, Asian Games -- Tokyo 1958; Southeast Asian Peninsular Games -- Kuala Lumpur 1965 and the Asian Games -- Bangkok 1966.

Dr TAN sits on the Board of numerous private and public-listed companies such as Nipsea Holding Pte Ltd, Hotel New Otani Pte Ltd, IRE Corporation Ltd, Manhattan Resource Pte Ltd, Pokka Corporation (S) Ltd, Ezra Holdings Ltd, Progen Holdings Ltd, Tung Lok Restaurants (2000) Ltd and United Engineerings Ltd.

For his contributions and services to the country, he was awarded the Public Service Star (BBM), Public Service Star (Bar) and the Meritorious Service Medal (PJE) by the Singapore Government. In 1995, the IOC "Olympic Movement Unity" Trophy was presented to Dr TAN for his invaluable services to Olympism.

## Outstanding Science Alumni Awards 2005

### TAN Seng Chye

**BSc 1966, BSc(Hons) 1967**

**Singapore Ambassador to Vietnam (2002 -- 2005)**

TAN Seng Chye graduated from University of Singapore in 1967 with an Honours degree. Bonded under a Singapore Government bursary, he was posted to the Ministry of Foreign Affairs upon graduation. He had not turned back since and blazed his way through an illustrious career as an outstanding diplomat. He has been serving the Ministry for 38 years and his impressive credentials include Ambassadorships to Thailand, Myanmar (from 1988 to 1990), Australia concurrently Fiji (from 1990 to 1993), Philippines (from 1994 to 1995) and Laos (from 1997 to 2000), as well as Directorship for Policy, Planning and Analysis Directorate I (Southeast Asia) (from 1983 to 1988), Technical Cooperation Directorate (from 1995 to 1997) and Consular Directorate (from 2000 to 2002). He has just completed his assignment as Ambassador to Vietnam (from 2002 to 2005). In addition, he has represented Singapore in many renowned international conferences such as ASEAN, United Nations, Non-aligned Movement, Commonwealth and Economic and Social Commission for Asia and the Pacific (ESCAP).

He has certainly dedicated his life to strengthening the bilateral relationships between Singapore and her neighbours and building trade and investment opportunities outside Singapore. He has been supportive of alumni gatherings whenever he is in Singapore.

**"Whatever we do, if we are open to take on new challenges and we are resourceful and are determined to achieve the best, we will realize our dreams. My primary school's motto 'Courage in every storm' is apt to meet life's challenges."**