# CHINESE UNIVERSITY BULLETIN

Spring • Summer 2005





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Kwok Ka Man (Graduating Fine Arts student) Maple Leaves and Mynahs (2003)

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# CUNK CAMPUS

With an area 17 times that of Hong Kong Park, the Chinese University's 134-hectare campus is the largest in Hong Kong. The latest satellite pictures provided by the Joint Laboratory for Geoinformation Science (JLGIS) indicate that 77 per cent of the campus is covered by vegetation. According to rough estimates, the University is home to over 200 plant species including the majority of Hong Kong's most common trees.

The University is celebrated for the beauty of her campus. Built on a hillside, the CUHK campus is embraced by mountains and overlooks a harbour. Water lies beneath the mountains, and, beyond water, mountains stand tall. It is little wonder that so many have found pleasure in this harmonious continuity.

Sec. 11 Lar

Queen Crape Myrtle

Common Crape Myrtle



Hainan Elaeocarpus

## Trees on Campus

The campus was built on the slopes that had been excavated for the construction of Plover Cove Reservoir. When the government handed over the site to CUHK, the whole area above the main campus was barren with only rugged boulders. The only exception was Chung Chi College, located at the foot of the hill. Greening the environment was an urgent task and it fell into the hands of the then nursery team of the Buildings Office (now Landscaping Section of the Estates Management Office). Geologically, the campus had far more rocks than soil. And its location near the harbour subjected it to winds heavy with salt, which did not favour plant growth. At United College and New Asia College, the most highly elevated parts of the campus, the winds were strongest and plants did not grow well.

According to retired Construction Supervisor of the Landscaping Section, Mr. C.K. Yau, his team found a solution to the problem of rocky soil — to make holes in the rock with a pneumatic drill and fill them with fertile soil in which saplings were planted. They chose plants that are resistant to drought, cold and salt, such as horsetail, pines, Taiwan acacias, and azaleas. They also took external factors into account when choosing what to grow, including hardness and depth of the soil, the terrain, sunshine, water sources, and wind direction. For instance, large trees need deeper soil while shrubs are preferred for slopes. Secondary considerations were the colour and height of the plants; huge discrepancies in height and species could lead to disorderliness.

Our campus today is the fruit of the hard work of several decades. This issue of the *Chinese University Bulletin* will introduce tree species on campus that are prevalent or special. Special thanks goes to floraphile Prof. Hu Shiu-ying and staff members who have helped to beautify and green our campus.

White Champak



#### **The Petalled Beauty**

The azalea belongs to the Ericaceae family; also belonging to the same family is the fuchsia. A native of warm temperate zones in Asia, Europe, and North America, azaleas are widely scattered. There are 850 wild species, over 600 of which are in China. Some species can be used in medicine, such as the red azalea which is said to detoxify, clear heat, dissolve phlegm and cure coughs. Nepal has chosen the tree-like azalea (Rhododendron arboretum) of the Himalayas as its national flower. The white azalea discovered locally is named the Hong Kong Azalea. Wild azaleas are protected by law and picking is prohibited. Species on campus include the red azalea, the white azalea, the Hong Kong azalea, and the Farrer's azalea. The best place to pay our respects is on University Road near the Benjamin Franklin Centre. When they bloom in March and April, bundles of purple, white and red dazzle with their brilliance. The famous Chinese poet Bai Juyi, describing the azalea, writes, 'It is like the Xishi of flowers', Xishi being one of the four legendary beauties in ancient China. None of us has even seen

> A sea of azaleas on University Road

*Xishi*, but we can feast our eyes on the generous azalea every year.

#### Branches Heavy with Red and Lavender

In late spring and early summer, pedestrians around the KCR University Station cannot help but notice two big trees — the jacaranda with its lavender flowers and the famous flame tree with its red. The jacaranda resembles and requires similar growing conditions as the flame tree, hence it is also known as the 'blue flame tree'. But in fact, the two belong to different families. The jacaranda, a native of Brazil, belongs to the *Bignoniaceae* family, whereas the flame tree (*Delonix regia*),

originating in Madagascar, is a *Caesalpiniaceae*. There are very few jaracandas on campus; there is one near the Benjamin Franklin Centre, one near Residence 3 and 4, and one — the tallest — near the train station. They have irregular flowering times but this year, they have rewarded the campus by flowering. The red flora of the flame trees were in bloom as usual, and they can be found everywhere on campus bursts of bright reds exploding amidst peaceful greens. No wonder the flame tree is also known as 'flame of the forest'. Among the selection at CUHK, the one near the train station with its shady arbour is the most shapely.

The Queen Crape Myrtle or *Lagerstroemia speciosa* is decked with purple flowers in early summer. A member of the *Lythraceae* family, it

has a round crown and long flowering time. The tree when pregnant with

Jacaranda

clusters of purple is a captivating sight. There is one on the slope of the Institute of Chinese Studies and another behind the Cheung Chuk Shan Amenities Building at United College. The prettiest one, however, can be found behind Chung Chi Tang in Chung Chi College.

> On the way to Hua Lien Tang there is a lay-by. From there you can spot flaunting its bold red flowers an African Tulip Tree (*Spathodea campanulata*). Shift your focus further and you can indulge in the reds of a flame tree on the right and the purples of a Queen Crape Myrtle on the left. This watercolour proves that nature can beat the artistry of any paintbrush hands-down.



A flaming welcome at the KCR entrance

#### Bauhinia and Bauhinia Blakeana

There is an abundance of bauhinia blakeana and bauhinia on campus. The two are very similar both being *Caesalpiniaceae* and

Bauhinia blakeana

both having heart-shaped leaves. It is difficult to tell them apart when they are not flowering. They exist side by side on the slope leading to the Institute of Chinese Studies and in Cultural Square outside the Benjamin Franklin Centre. There are also quite a few flanking Central Avenue. How can we identify them without looking at the labels on the tree trunks? The bauhinia blakeana is infertile; it does not produce seeds and has to be propagated by cutting and other methods. The bauhinia bears dark flattened pods, so trees with pods are likely to be bauhinia while those without are bauhinia blakeana. Their flowers are also very different. In 1908, the bauhinia tree was formally established as a new species named bauhinia blakeana, after Sir Henry Blake, the then Governor of Hong Kong, as a recognition of his support for the Botanical Gardens.

#### Ashoka and Shiuying Bamboo

There is an ashoka tree by Weiyuan Lake in Chung Chi College. Planted in 1997, it is the only one at the University and one of very few in the territory. Ashoka tree, a *Caesalpiniaceae* 

territory. Ashoka tree, a *Caesalpiniaceae* 

originating in India, was introduced into China in the 1950s by Guangzhou's South China Botanical Garden. When the tree flowers in April or May, clusters of golden petals sparkle on its crown, emanating a lovely fragrance. A precious plant, the tree's name 'Ashoka' means 'without sorrow' in Sanskrit. According to the Buddhist sutra, Buddha was born under an ashoka tree. The bark of the tree is believed to have medicinal value. In India, it is used to treat depression, menstrual pain and uterine bleeding in women. The correlation between the story of Buddha's nativity and the tree's medicinal properties would make a fascinating research topic.

The Shiuying bamboo is a native of Hong Kong which cannot be found elsewhere. When discovered in the late 1970s, it was only spotted at CUHK and Eagle's Nest near Kowloon Reservoirs. At the time, Paul Pui-hay But and Jia Liang-zhi were involved in Prof. Hu Shiuying's compilation of Flora of Hong Kong. They were responsible for documenting the Poaceae family and came across this unique bamboo on the slope of Hua Lien Tang and Chung Chi Tang in Chung Chi College. Ordinarily, Southern bamboos are bushy, but this variety is slight and slender, measuring four to six metres high and one to two centimetres in diameter. It is thorned and trailing rhizomes secure it to the soil. The entire slope was covered with the bamboo. The two scholars named the new species after their beloved teacher, Prof. Hu Shiu-ying. Paul Puihay But is now a professor of the Department of Biology at the Chinese University and Jia Liangzhi is a professor at the South China Institute of Botany.

#### Ginkgo and Lemon-scented Gum

The *Ginkgoaceae* has existed since the Palaeozoic Era 200 million years ago, making the Ginkgo the oldest tree in the world. However the wild variety is now extinct. Originating in China, the Ginkgo is a temperate zone deciduous tree which can grow to an imposing 35 metres in height. Given its hardy and robust nature, it is not uncommon to find Ginkgo trees of several hundred years. There are male and female Ginkgos. Seeds from the female are the Gingko fruits we commonly use in cooking. The *Chinese Herbal Materia Medica* calls the Ginkgo 'duck's web' after the shape of its leaf, and has a formula, Duck's Web Powder, that treats asthma, coughs and phlegm. Thirty years ago, German scientists discovered that flavonoids contained in the Ginkgo are extremely effective in delaying atherosclerosis, making Gingko-based health foods very popular. The tree is rare in Hong Kong as the territory's subtropical climate is not ideal for its growth. The University campus, however, is blessed with five specimens, two of which were planted in 1973 in Chung Chi College, two others in 1991 in Shaw College, and the youngest in 2004, in New Asia College.

In the bushy thicket by the KCR University Station, two trees with smooth, greyish white trunks stand tall and erect. They are lemonscented gum trees. The gum tree, a *Myrtaceae* with over 500 species, is a native of Australia and New Zealand. It is fast-growing with some species reaching up to 90 metres in height.

Gum trees have very thin bark. It is said that if you put your ear to the trunk and listen carefully, you can hear the sound of water being absorbed by c a p ill a r y tubes in the tree. The leaves when crushed give off a strong scent of lemon.

#### Oil

extracted from blue gum is a primary ingredient of many medicated oils for external use. Jules Verne, the father of science fiction and author of Around the World in Eighty Days, has a special love for gum trees. He found them highly useful and described them in detail in many of his works. Besides the KCR station, there are lemon-scented gum trees outside the tennis court in Shaw College and next to the Chung Chi College Staff Club. But the tallest ones are the five in front of Hua Lien Tang. The scent of the lemon-scented gum is a mosquito repellent. The aborigines of Australia would take shelter under gum trees when staying overnight in the open.

Lemonscented gum

Ginkgo the oldest tree in the world



However it remains to be seen if Hua Lien Tang does indeed have fewer mosquitoes.

#### **Heaven and Earth**

There are many other trees worth mentioning on campus. At the junction of University Road and the Library Boulevard (near the flagpoles) is a majestic Mountain Fig. At eight metres tall, with a diameter at breast height of over three metres and a crown of 25

> metres, it is a documented King of Trees in Hong Kong. The campus also features various types of banyan, fir, pine, poplar, bamboo, camellia and palm. There are also cotton trees and a mountainful of

Taiwan acacia and horsetail. A row of towering royal palms guard the carriageway outside the Tin Ka Ping Building like solemn sentinels standing their post. One of them suffered from a ruptured trunk when smashed by a reckless lorry several years ago. Fortunately, with proper treatment, it survived the accident, but the tree has to wear steel retainers for the rest of its life. There are also the rain tree next to Science Centre and the camphor tree on Central Avenue; the frangipani in front of the Fung King Hey Building which flowers secretively in early summer; the white jade orchid, black bamboo, sapodilla, common elaeocarpus, hainan elaeocarpus and heteropanax in Shaw College; the silk oak and lebbeck tree, the big-leaved fig sown by Dr. T.C. Cheng, and the flame of the forest planted in memory of alumna, Dr. Tse Yuen Man in United College; as well as different kinds of trees planted by graduates and alumni of New Asia College. It would take a sizeable volume to record them all with illustrations that do them justice.

Rabindranath Tagore says, 'Trees are the earth's endless effort to speak to the listening heaven.' How blessed we are at CUHK that everyday we can witness the earth speaking and heaven listening. We have a beautiful campus vibrant with vegetation in all shades of the rainbow. They deserve our utmost efforts at nurturing and preservation, and an excellent way to start is by making our acquaintance with the plant life around us.



Avifauna and Fauna on CUHK Campus

On curiously abrupt slopes foliages sharp with cicadas hides the famous bird, its dragon wings become ferns, pike blade claws twigs.

Feng, with eagle beak and tongue, build the nest of flames in minds old and young, beacon above the sea at To Lo, and signal nine angels of wisdom.

(From 'At Chinese University' by Andrew Parkin)

Birds have always been special to the Chinese University. The emblem of the University is the mythical Chinese bird feng (鳳), or phoenix as it is sometimes called, which transforms ideologically and physically into the University and its landscape in the poem by Andrew Parkin, emeritus professor of English. Known as the Bird of the South since the Han dynasty, the feng is a symbol of nobility, beauty, and loyalty.



The sky above the University is generously graced with the presence of mortal cousins of the legendary creature. CUHK is home to many species of local birds. Its lush vegetation also plays host to migrant birds passing through in spring and autumn and those fleeing from the intense coldness of northern lands in winter. A total of 131 bird species have been recorded on campus in 2003, representing about 30 per cent of the 448 species on the Hong Kong list.

#### **House Swift**

Among the resident populations on campus, the House Swift or Little Swift is a locally important species. The concrete cliff-like walls of the University library, where over 500 House Swifts have built their nests, are home to the largest swift colony in Hong Kong. The small, smokey-black birds fly in flocks and, in flight, look like small anchors due to their short square tail and long narrow wings. They also make a continuous 'si-si' call. In spring, even the most unperceptive pedestrians cannot help noticing the birds when they walk past the library walls, and if a bit short on luck, may even become targets of their droppings. Complaints about droppings have led the Estates Management Office to step up cleaning of the ground under the birds' homes and now the problem seems to have been ameliorated.

Named for their rapid flight, House Swifts are quite common in Hong Kong, especially in old towns like Taipo and Yuen Long. They build nests of feathers and fine grass under the eaves and ledges of houses and have the unusual habit of occupying their nests all year round instead of just during the breeding season. They feed on insects which they catch in mid-air. These swifts are believed to be responsible for eliminating 10 million small insects from the campus per day.

#### Collared Scops Owl

In 2001, the Hong Kong Bird Watching Society conducted a 15-month night bird survey on 19 sites throughout the territory. The Chinese University was one of the sites. Among the more interesting species found on CUHK campus were several pairs of Collared Scops Owls sighted on Chung Chi campus. A small owl and one of the commonest owls in the territory, the Collared Scops Owl has reddish brown iris, dark brown back and a lighter belly with dark streaks. Its call is a soft 'hoo-o' repeated at an interval of about 10 seconds.

#### Cuckoos

Also spotted on campus during the survey were members of the Cuckoo family, including the Indian Cuckoo, the Chestnut-winged Cuckoo, the Large Hawk Cuckoo, the Plaintive Cuckoo, and the Common Koel.

Cuckoos are known for their song. In fact the name 'cuckoo' is an onomatopoeia — a word which imitates the natural noises made by the bird. A cuckoo clock is a clock that announces intervals of time with a sound resembling a cuckoo's call and often with the simultaneous



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emergence of a mechanical bird from a small door. The Hindu religion has an observance relating to the cuckoo's voice, wherein women take a vow not to eat any food until they have heard the cuckoo's call as the cuckoo is said to call so sweetly that it seems to be chanting some mystic teaching. One hears its voice, but does not necessarily see it. Over in England, the romantic poet Wordsworth writes:

Cuckoo! shall I call thee Bird, Or but a wandering Voice?

To seek thee did I often rove Through woods and on the green; And thou wert still a hope, a love; Still longed for, never seen.

(From 'To the Cuckoo')

#### **Cuckoos Found on Campus**

The Indian Cuckoo is a medium-sized cuckoo with a grey-head and brownish upperparts. Its loud four-note whistle 'ko-ko-ta-to' (with the fourth note lower) can be heard from mid-April. The Chestnut-winged Cuckoo is a distinctive bird with a long black crest, dark glossy blue upperparts, and a white band on its hind neck. It has a persistent 'peep peep' whistle. The call of the yellow-billed Large Hawk Cuckoo is said to sound like 'brain fever'. It is sometimes repeated in a crescendo scale until it ends in a piercing scream, after which the bird is silent for a few minutes, before it resumes from another vantage point. The persistent, distinctive cry of the Plaintive Cuckoo makes it more often heard than seen. A small-sized cuckoo, its call consists of eight notes, the first four of which are long, slow and rising, and the latter four, short, fast, and falling. The Koel is named after the loud and incessant call of its male, 'ko-el', which, in certain communities, is interpreted as a harbinger of evil.

#### Impact of Construction

Chung Chi College, with its lake and plenty of mature trees, used to provide the best habitat for birds on campus. However the loss of big, old trees and woody plants caused by ambitious construction have impacted rare forest birds and water-dependent species. A large flock of egrets which used to roost in the acacia trees behind the Fong Shu Chuen Building each night for four months of the year no longer return. Also gone are the striking Scarlet-backed Flowerpeckers, previously resident at CUHK. Another resident, the Black-crowned Night Heron is dwindling in number.

At the same time, new species have colonized the hillside adjacent to Shaw College due to the maturation of its shrubland. These include the Rufous-necked Scimitar Babbler, the Rufous-capped Babbler, and the Velvet-fronted Nuthatch. The Rufous-capped Scimitar Babbler, which favours forest undergrowth, has a reddish brown crown and a brown mantle tinged with olive. Its call is a musical prolonged 'do-do-dodo'. The beautiful Velvet-fronted Nuthatch is a small bird with lavender cheeks and mantle, and a red bill. It roves along tree trunks and branches, sometimes upside-down. It is a likely



descendant of captive birds that have escaped and are now prospering in the Taipo area.

Serious construction work has begun on central campus around the Li Dak Sum Building, which will affect the open gardens surrounding the buildings. Birds that may lose nesting or foraging sites as a result include the Redwhiskered Bulbul, also known as Crested Bulbul, the Chinese Bulbul, the Magpie Robin, the Fork-tailed Sunbird, the White Wagtail, and the Black-collared Starling.

#### **Sightings of Fauna**

Over 40 years ago, the Chinese University campus was little more than a hillside overgrown with shrubs and grass. It is perhaps a fair assumption to make that in its earliest days, the University shared similar fauna with its neighbour Tai Po Kau. Hong Kong was largely deforested during the last world war. The forest at Tai Po Kau, which mostly dates from around the mid-20th century, has been colonized by many escapees as well as species which had formerly occurred as winter visitors. Tai Po Kau remains one of the oldest and best maintained reserves in the territory and possibly the best remaining area in Hong Kong for watching forest birds.

Twenty years ago, porcupines, squirrels, barking deer, pangolin, wild boar, cobras and monkeys were sighted on campus, especially around the Vice-Chancellor's Residence. Sightings of these animals are rare now with some seeming to have vanished altogether. Creatures that still make occasional appearances on campus include, besides feral cats and dogs, small insect-eating bats and larger fruit-eating bats which have been found near Chung Chi's Weiyuan Lake. Other creepy crawlies sighted include the many-bandied crate, the common rat snake and the bamboo snake, spiders and changeable lizards.

#### The Need for Conservation

The Chinese University understands that destruction often follows close on the heels of construction as the poem below shows, unless care is taken to minimize the negative effects of the latter. With its double blessing of having biodiversity and abundant expertise in biology and environmental science, the University aims at taking a leadership role in local conservation and sustainable development as true progress is more than the sum of buildings.

I climb further up beyond a rocky outcrop high above the permitted future approved by planners, legislators, elected or not, and the lawyers and the whole pack of architects, engineers, quantity surveyors, accountants, and I can hear already the clatter and thump of yet more construction really the destruction of a previous sense of place.

And this brief time is sold, sold over and over again like the land, our only earth.

> (From 'On a Mountain above Tolo Harbour' by Andrew Parkin)

Magpie Robin

White

Wagtail

Red-whiskered Bulbul



Slope Greening – Its Challenges and Benefits

Since 1997, greening, besides safety, has been the goal of slope maintenance at the Chinese University.

There are approximately 300 slopes on the University campus, a hundred of which have been surveyed and 60 have been stabilized. Ir. Francis Wong, geotechnical engineer of the Campus Development Office (CDO), reported that the CDO has learnt from years of experience and found a slope greening model suitable for the University environment. The model takes into account factors such as hydrology, geology, slope gradient, slope direction, and rainfall volume. Each slope is different hence greening projects are tailor-made and aimed at minimizing impact on the environment. Advice on horticultural arrangement and campus ecology is given by experts from the Estates Management Office.



**O** Below the Tsang Shiu Tim Building, United College Simple and effective greening — two steel wires fixed horizontally on the slope act as a kind of trellis for the upward growth of bougainvillea

The University invited external contractors to supply models for testing different greening techniques on Residence Road to identify the ideal conditions for growing various types of plants. It also assists postgraduate students of the Department of Biology and the Department of Geography and Resource Management to carry out slope vegetation research at the Sir Philip Haddon-Cave Sports Field. Unlike government and other units engaged in slope greening research, the CUHK geotechnical engineering unit has been monitoring the same batch of slopes for years and therefore has a thorough understanding of their greening effects and maintenance needs.

Ir. Wong said the University's work has served as reference material, especially in terms of



OBeside the Mong Man Wai Building Top half of the slope — on the left, fiber soil is used while, on the right, ordinary spray grass technique. The former is ideal for short growth time span and the latter is better for a longer time span. greening effectiveness, biodiversity and preservation, for many government departments and engineering consultants who have paid site visits to the University. To improve their mastery of slope greening techniques, the Department of Biology and the Department of Geography and Resource Management will organize a workshop on 19th November 2005. The workshop will analyse the University's greening experience and research findings from a practical point of view and explore engineering issues in slope greening.

Planting on stabilized slopes poses many obstacles. Besides factors related to engineering, climate, and the plants themselves mean that greening effects cannot be quickly observed. Ir. Wong observes that efforts at artificial greening are sometimes not as good as nature's fingers. 'Vegetation planted on stabilized slopes often does not flourish like native plants which return to their native soil by nature's sleight of hand. This shows what are expected of greening technology — sustainability and rehabilitation.'



#### O Entrance to Chung Chi College

This slope has complicated hydrology and is located near a watershed. To ensure safety, it has to be stabilized with a concrete coating to reduce erosion by rain water. Tree rings were fixed on the slope surface to encourage the continual growth of native plants.



#### O Behind the Hui Yeung Shing Building

The hydrology of this slope is complicated, so water channels are used to direct the rich sources of underground water to the stormwater drain. Workers removed the loose surface soil and recoated and stabilized the slope with new soil. This allows plants to grow and reduces surface soil erosion.



O Next to the Friendship Lodge, New Asia College The direction and amount of sunshine a slope receives are factors affecting plant growth.



O University Residence 17 A green slope and fuschia flowers in striking harmony

Social development inevitably changes the natural environment. The problem is not an easy one to resolve. Eminent plant taxonomist and centenarian,

Prof. Hu Shiu-Ying, is passionate about plants. Her connection with the Chinese University began in the late 1960's. She has witnessed the changes on CUHK campus for several decades. While positive about the University's development, Prof. Hu is also sad that preservation of the natural environment has been less than ideal. 'Some excellent vegetation on campus has been damaged. Good vegetation should come in layers. The forest is a family with both old and young growing naturally and in layers. This is how good vegetation should be. If the roots of trees are damaged, plants cannot grow naturally. Plants should be allowed to grow according to their own fashion and form a natural protective veil on slopes. This creates a natural environment.' Prof. Hu explained that it does not make sense to remove natural vegetation from slopes and replace it with grass. Trees have deep roots so they can grow in the shade. But grass has shallow roots. They will not last more than a few years in the shade.

# Environmental Protection

'The Chinese University should not settle for a bare pass in environmental standards. We should aim high in sustainable campus greening,' remarked Lam Kin Che, professor in the Department of Geography and Resource Management, on the expectations of University members and his goals.

Chairman of the University Steering Committee on Environment (USCE) since autumn 2004, Prof. Lam is committed to improving the campus environment in order to provide staff and students with ideal conditions for working and studying. He is also an expert in environmental impact assessment in Hong Kong, and chairman of the government's Advisory Council on the Environment. Prior to that, he had been chairman of the Environmental Impact Assessment Subcommittee of the council for eight years. The sub-committee is responsible for assessing the environmental impact of various infrastructural projects in the territory and advising the government on related policies.

'The Chinese University has a beautiful campus of which we are very proud. The recent opposition to the felling of trees next to the Li Dak Sum Building shows that University members treasure our environment.'

#### **USCE** Priorities

Prof. Lam believes that the primary task of the USCE is to perfect the policy-making system, set up an effective structure and procedures, and formulate clear objectives, standards, and guidelines. In these undertakings, it requires the participation of all CUHK units, colleges, staff and students. Through communication and collaboration with all parties concerned, it will strive to minimize the environmental impact of projects and achieve sustainable development.

#### Importance of Dialogue

Prof. Lam is also a member of the government's Council for Sustainable Development, which, under the leadership of Dr. Edgar W.K. Cheng, its vice-chairman and chairman of the University Council, formulates policies on sustainable development for Hong Kong. Prof. Lam's experience with the council has made him aware of the importance of stakeholder participation and maintaining transparency. Prof. Lam pointed out that campus development should be preceded by efforts to understand the environmental views of University members; consultation is an important aspect of modern public administration. 'A good environment policy should be built on consensual objectives which are supported by a clear policy-making structure, standards for implementation and guidelines.' And before consensus can be reached, there must be adequate communication, timely consultation, and a high degree of transparency.

to a Grand L

Prof. Lam predicts that development will continue to thrive on campus. He hopes, however, that before the green light is given to projects, in particular those affecting a larger area, older trees and trees of historical value, the University will discuss their environmental implications with staff, students and the colleges with the aim of reaching consensus and avoiding conflict. His experience in public service has shown him that when making environmental policies and implementing projects, transparency and earlier engagement of stateholders will result in greater public identification. It will also be easier to monitor the progress of projects and pressurize contractors into heeding the environmental aspects of their undertakings.

#### **USCE** Agenda

For the USCE, tasks at hand include delineating the University's greening and tree felling policy, drawing up procedures and guidelines for decision-making, delegating responsibilities, monitoring, and implementing felling compensation and post-planting preservation. Prof. Lam hopes that the steering committee will fortify links with the colleges by including members of the collegiate environment committees. He said, 'The colleges have done a lot in environmental protection and they have teachers, students and alumni at their disposal. They are valuable partners to have in developing a sustainable campus. I hope that they will give me time during their weekly or monthly assemblies to introduce the committee's work to drum up support for our work.'

#### **Greening by Joint Effort**

Prof. Lam also hopes to raise the committee's transparency to the level of the government's Environment Impact Assessment Subcommittee. 'The USCE is not the police. It should not hunt down culprits when something goes wrong. Instead it should proactively instil environmental awareness into University members so that we all regard environmental protection as our job and have as our objective the building of ideal campus surroundings. Greening the campus this way saves cost and gives us more to be proud of.'



Special thanks to the following CUHK members (arranged in alphabetical order) for providing information on the campus environment and campus greening:

Prof. Chau Kwai-cheong Mr. Cheng Tsang-sing Ms. Chu Chor Chun Prof. Hu Shiu-ying Mr. George C.K. Jor Prof. Lam Kin Che Mr. Richard Lewthwaite Prof. Lin Hui Ir. Francis C.H. Wong Mr. Yau Chung Kei Mr. Jack K.W. Yung Dr. Yung Kung Hing

## Fourth Honorary Fellowship Conferment Ceremony

A t the University's Fourth Honorary Fellowship Conferment Ceremony held on 23rd May 2005 at Lee Hysan Concert Hall, Esther Lee Building, honorary fellowships were conferred on nine distinguished persons who have been closely associated with the University in recognition of their excellent contributions to the University and the community. Dr. Edgar Cheng, chairman of the University Council, presided at the ceremony. **Dr. Cheung Huen Cheong, Thomas** is a prominent figure in the Hong Kong insurance industry, a renowned philanthropist, and a distinguished alumnus and honorary graduate of The Chinese University of Hong Kong. He is currently chairman and CEO of Pacific Insurance Co., Ltd. and Pacific Life Assurance Co., Ltd.

A famous philanthropist, Dr. Cheung founded Thomas H.C. Cheung Foundation Ltd. through which he has donated generously to the Chinese University. He has been a member of the University Council since 1991 and holds positions in various committees. Dr. Cheung is also vice-chairman of the United College Board of Trustees and chairman of the United College Endowment Fund Committee.

Dr. Cheung has played a pivotal role in strengthening ties among CUHK alumni and between the University and its alumni. He has been continuously elected president of the Alumni Association of United College since 1972. He was also three-time president of the Federation of Alumni Associations of CUHK, and is a director of its subsidiary Education Foundation.

Dr. Cheung is Honorary Consul for Sri Lanka in Hong Kong and Macau, and was awarded the national honour Sri Lanka Ranjana by the President of Sri Lanka in 1991.

**Dr. Chou Wen Hsien** is a distinguished entrepreneur and a cofounder of Windsor Industrial Corporation Ltd. of which he is currently chairman and managing director.

Dr. Chou is honorary consultant of the Tung Wah Group of Hospitals and Pok Oi Hospital, and life honorary consultant of Yan Chai Hospital. He was appointed honorary visiting professor of Suzhou Medical College and Shanghai Medical University, and is an honorary consulting professor of Shanghai Teachers University. He was awarded Doctor of Social Science, *honoris causa*, by East Asia University in Macau. In 1987, he was awarded Officer of the Most Excellent Order of the British Empire.

Dr. Chou is chairman of the Hong Kong Winsor Education Foundation and the Chou's Foundation. He has been a member of the Board of Trustees of New Asia College for many years, and, in 1998, served as chairman of the board. He has also represented the board to serve as a member of the University Council of CUHK.

Dr. Chou is committed to the promotion of Chinese medicinal health care. Under his leadership, the Hong Kong Association for Health Care Ltd. collaborated with Suzhou Medical College to found the Suzhou Chinese Medicine Research Institute, which has contributed significantly to the promotion of Chinese medicine in the world.

**Mr. Lee Kam Chung** is a distinguished alumnus of The Chinese University of Hong Kong and an eminent educationalist.

Mr. Lee has committed himself to education for over four decades. After graduating from the Chinese University in 1964, he served as secondary school teacher and principal and founded a secondary school. He has been chairman of the Education Foundation of the Federation of the Alumni Associations of CUHK since 1982. Mr. Lee had served as supervisor of the foundation's three secondary and primary schools from their inception until 2002, and is currently the supervisor of one of its kindergartens. He was also the founding principal of the School for H.K. Children in Guangdong.

Mr. Lee has made remarkable contributions to local district administration, livelihood improvement and youth development. He was awarded the Governor's Commendation for Community Service in 1993, the Queen's Badge of Honour in 1996, and St. John Ambulance Serving Brother in 2003.

Over the years, Mr. Lee has lent his time and expertise to the development of his *alma mater*. He has been a member of the University Council since 1994, and was appointed a member of the Search Committee for the Appointment of the Vice-Chancellor in the same year. Mr. Lee was a member of the New Asia College Board of Trustees from 1978 to 1994. He has also played an instrumental role in strengthening ties between alumni and the University through his capacities as chairman of the CUHK Federation of Alumni Associations, chairman of CUHK Convocation, and chairman of New Asia College Alumni Association. **Mr. Lee Woo Sing**, an eminent entrepreneur in the finance industry, is the founder of Shun Loong Group and currently non-executive director of Grand Investment International Ltd. and director of Grand Finance Group Company Ltd. He was elected a founding committee member of the Stock Exchange of Hong Kong Ltd. Mr. Lee is also honorary adviser to the Chinese Gold and Silver Exchange Society, honorary president of the Institute of Securities Dealers Ltd. and honorary consultant of Hong Kong Stockbrokers Association Ltd. Over the years, he has contributed significantly to the advancement of Hong Kong as an international financial centre.

Mr. Lee was a member of the Selection Committee of the First and Second HKSAR Government and is currently chairman of the Shanghai Fraternity Association Hong Kong Ltd. (SFA), honorary president of the United Zhejiang Residents Association (HK) Ltd. and the Ning Po Residents Association.

In 2003, Mr. Lee was appointed honorary professor of the Colleges of Economics and Humanities of Zhejiang University. He is an honorary member of the Executive Committee of School Affairs, Shanghai Tongji University. In 1993, backed by Mr. Lee and other directors, the SFA made a magnanimous donation of HK\$13.5 million towards the establishment of the Shanghai Fraternity Association Research Services Centre on CUHK campus. Mr. Lee was appointed to the Board of Trustees of Shaw College in 1997. With his support, the SFA joined hands with the University to launch the Home in Hong Kong project which led to the formation of the CUHK Mainland Undergraduate Association, the first of its kind among local tertiary institutions.

Mr. Li Fook Hing is a distinguished philanthropist and a long-serving member of the Board of Trustees of Chung Chi College.

Mr. Li is enthusiastic in education service and has close connections with Sheng Kung Hui. He has served on the school councils of a number of Sheng Kung Hui secondary schools. Mr. Li has also made important contributions to the medical service sector. He is a member of the Hospital Governing Committee of Alice Ho Miu Ling Nethersole Hospitals, and was chairman of the committee from 1997 to 2000. He is also a member of the Hospital Governing Committee of Pamela Youde Nethersole Eastern Hospital and United Christian Hospital, and a Trustee of CWM/Nethersole Fund. Mr. Li was awarded the Officer of the Most Excellent Order of the British Empire in 1987.

Mr. Li joined the Board of Governors of Chung Chi College in 1968, which was later reorganized as the College Board of Trustees, and has rendered distinguished service on the board for over 36 years until 2004. He was chairman of the board from 1981 to 1987. Under his outstanding leadership, the college accomplished several important projects. Mr. Li helped to launch the Siu Tao Fung Shan Project which continuously generates revenue for the college. He has also made magnanimous donations to the University, including in the form of scholarships for mainland students.

**Mr. Mong Tak Yeung, David** is vice-chairman of Shun Hing Group and chairman of the Shun Hing Education and Charity Fund.

Mr. Mong gained a thorough understanding of the Japanese management style as well as hands-on experience in advanced technology at Matsushita Electric Industrial Co. Ltd. in Japan. He joined Shun Hing Electronic Trading Co. Ltd. as executive director in 1991. He is currently vice-chairman of Shun Hing Group.

Mr. Mong has contributed much of his expertise and resources to the medical, educational, management and electronics sectors. Shun Hing Education and Charity Fund has donated over HK\$400 million over the years in support of projects in the fields of education, medical services, sports, arts and culture, and environmental protection in Hong Kong, mainland China, and overseas.

Mr. Mong has also been a staunch supporter of the Chinese University. The Shun Hing Institute of Advanced Engineering was established in 2004 with a generous donation from the Shun Hing Education and Charity Fund. He also serves as the founding chairman of the advisory board of the institute and member of the Advisory Board of the Faculty of Engineering, and Advisory Committee of the Institute of Mathematical Sciences of the University.

**Prof. Mun Kin Chok**, a distinguished scholar in marketing, is currently Emeritus Professor of Marketing of The Chinese University of Hong Kong and Honorary Fellow of New Asia College.

Prof. Mun joined the University in 1969 as lecturer in business administration and retired in 2000. He was dean of the Faculty from 1981 to 1984, and from 1987 to 1993, director of the Executive MBA Programme from 1992 to 2002, chairman of the Advisory Board to the School of Continuing Studies, and chairman of the Management Board of the Asia-Pacific Institute of Business. Prof. Mun pioneered the launch of the Executive MBA programme at CUHK in 1993, the first of its kind in Hong Kong, and a leading programme in both the Asia-Pacific and the world.

Prof. Mun helped the University to re-establish its ties with universities and ministries on the mainland shortly after China reopened its doors. In the 1980s and 1990s, he helped mainland universities set up programmes in marketing and international business, and business administration. He held numerous

honorary professorships in mainland institutions. Prof. Mun has contributed significantly to the application of classic Chinese philosophy in modern management.

**Dr. Wang Cheung Tze, Charles**, managing director of Salon Films (HK) Ltd., is an outstanding figure in the film industry and a distinguished alumnus of Chung Chi College.

Dr. Wang inherited the management of Salon Films from his father in 1968. Under his capable leadership, Salon Films has become a leading force in the local film industry.

Dr. Wang has been a member of the Film Services Advisory Committee of the HKSAR and a committee member of the Fundraising and Promotion Committee for the Agency for Volunteer Service. In 1996, he was awarded a Doctor of Philosophy in Business Administration and Management, *honoris causa*, by the Southern

California University for Professional Studies, and appointed Chevalier de L'Ordre des Arts et des Lettres by the French Government.

As a member of the Board of Trustees of Chung Chi College since 1990, Dr. Wang has been a staunch supporter of his *alma mater*. He was chairman of Chung Chi College Alumni Association and has served as a mentor to Chung Chi students since 1999.

Since 1993, Dr. Wang has been appointed a member of the Standing Committee, and convener of the Fundraising Sub-Committee of the CUHK Convocation.

Ms. Yan Hau Yee, Lina is an eminent educationalist. A distinguished alumna of United College, Ms. Yan is currently chairperson of the CUHK Convocation. Ms. Yan has been a secondary school teacher and served as supervisor and board member of secondary and primary schools and kindergartens. In 1976 she joined Radio Television Hong Kong and when she left in 1995, was head of RTHK's Education Television Division. Ms. Yan continued her career in education as assistant to the Episcopal Delegate for Education from the Catholic Diocese of Hong Kong, a position she held until 1999. Ms. Yan has contributed immensely to community services, particularly to the promotion of moral education, Chinese culture and a better education system. She was awarded the Medal of Honour by the Government of the HKSAR in 2004.

She joined the CUHK Convocation at its inception in 1993 and has served as its chairman since 1999. Ms. Yan also represents the convocation to serve on the University Council, and is an active participant of University committees. Currently board member of the CUHK FAA Education Foundation and member of the Board of Trustees of the United College, Ms. Yan was president of CUHK FAA in 2000–1.

# CUHK Produces the Most Rhodes Scholars

## Evelyn Chan, the Tenth Awardee

United College student Evelyn Chan Hiu-tung, has been selected as Hong Kong Rhodes Scholar for the year 2005. Evelyn is the tenth CUHK student to have been awarded this prestigious scholarship, making CUHK the local university with the most Rhodes scholars.

> Currently a final-year student majoring in business administration and minoring in sociology at CUHK, Evelyn will be leaving for the University of Oxford in the UK to begin M.Phil. studies in social anthropology in October 2005.

Evelyn has demonstrated herself to be a person of high intellectual ability, with a strong academic record and well considered ambitions. She is also an outgoing young woman of integrity and maturity. She enjoys interacting with people

and is active in a range of extracurricular activities.

During her studies at the Chinese University, Evelyn was on a yearlong exchange at the University of Chicago in the US, and was an enthusiastic

participant of cultural activities. She teamed up with three other classmates of the Faculty of Business Administration at CUHK to take part in the Copenhagen Business School Case Competition. Among 12 teams from world renowned business schools, the CUHK team was the runner-up. A keen debater, Evelyn was awarded the best debater in the local Joint Universities Debating Competition and was selected to represent CUHK at the World Universities Debating Championship in Toronto. She also participated in the China Career Development Award Programme, and took part in a monthlong internship in Shanghai.

The Rhodes Scholarships were established after the death of Sir Cecil

Rhodes in 1902, and were originally allocated to students from the Commonwealth countries, the US and Germany. Since the inclusion of



Evelyn (left 2) at the Copenhagen Business School Case Competition

Hong Kong to the list of countries in 1985, one student from the territory has been honoured as Rhodes Scholar each year.

#### **CUHK Rhodes Scholars**

Year	Name	College	CUHK Degree Held	Field of Studies in Oxford
1987	Ms. Wong Suk Chee, Dorothy	United	BA in English in 1986	D.Phil. in Management Studies
1992	Ms. Leung Wai Sze, Jeanne	Chung Chi	BA in English in 1990 M.Phil. in Management in 1992	M.Phil. in Management Studies
1994	Mr. Wong Ming Fung, William	United	BBA in 1994	BLL
1996	Mr. Wong Chak Kei, Jack	New Asia	B.Eng. in Electronic Engineering in 1996	D.Phil. in Economics (originally admitted for M.Phil. in Control Engineering)
1998	Ms. Lee Pui Shan, Amanda	United	B.Eng. in Electronic Engineering in 1998	D.Phil. in Control Engineering
1999	Mr. Hui Tat Yan, Daniel	United	BA in English in 1998 MA in Applied General Linguistics in 1999	M.Phil. in General Linguistics and Comparative Philology
2000	Ms. Lai Wing Yu, Jade	Chung Chi	B.S.Sc. in Sociology in 2000	M.Phil. in Sociology (originally admitted for BA in English Language and Literature)
2002	Ms. Lok Man Yin, Frances	Chung Chi	BA in Chinese Language and Literature in 2002	BA in Law
2004	Ms. Fung Si Yu, Cecilia	United	BA in Translation in 2004	BA in Philosophy, Politics and Economics
2005	Ms. Chan Hiu Tung, Evelyn	United	BBA in 2005	M.Phil. in Social Anthropology

## **Research News**

#### **Research Grants Totalling HK\$27 million for 26 Projects**

Grants totalling some HK\$20 million from various local and overseas sponsors for projects undertaken by CUHK researchers were recorded during the period November 2004 to May 2005:

Sponsors	Amount Involved (HK\$)	Number of Projects Supported
Central Policy Unit	230,000	1
China Light and Power Holdings Limited	250,000	1
Consulate General of France in Hong Kong and Research Grants Council	156,300	2
Council for the AIDS Trust Fund	163,315	1
DAKA Development Ltd. and Innovation and Technology Fund	3,766,000	1
Germany/Hong Kong Joint Research Scheme	56,600	2
Hong Kong Arts Development Council	347,000	2
Innovation and Technology Fund	9,487,217	2
National Institute of Diabetes and Digestive and Kidney Diseases	US\$47,759	1
National Institutes of Health, USA	US\$128,000	1
National Natural Science Foundation of China and Research Grants Council	871,258	2
Novartis Institutes for BioMedical Research Inc.	US\$172,500	1
Professional Services Development Assistance Scheme	352,000	3
Research Fund for the Control of Infectious Diseases	2,849,454	5
Research Grants Council	4,560,000	1
S.K. Yee Medical Foundation	682,950	1
The Croucher Foundation	200,000	2

#### HK\$74 Million Grant for Primary and Secondary School Development

The University was awarded a grant of HK\$74 million by the HKSAR government to provide professional support to principals and teachers of primary and secondary schools through two projects: Partnership for Improvement of Learning and Teaching, and Quality School Improvement. The largest grant ever awarded to a tertiary institution in Hong Kong for such purposes, it will help position the University as an Asian centre of excellence in school development.

The Centre of University and School Partnership of the CUHK Faculty of Education and the Hong Kong Institute of Educational Research reached an agreement with the Education and Manpower Bureau in December 2004 to implement Partnership for Improvement of Learning and Teaching (PILT) and Quality School Improvement (QSI) in the five years from 2004 to 2009.

The PILT project provides professional support for the development of different key learning areas and subjects in junior secondary schools. The project will also empower teachers to tackle the challenges brought about by curriculum reform and changes in the secondary school system. It will be administered by a team of 20 professors

and instructors from the Faculty of Education, external frontline experts, and school development officers of the Centre of University and School Partnership.

> The QSI project is a comprehensive school improvement project that aims to facilitate school development and promote

quality school culture in Hong Kong. Its ultimate goal is all-round development in all students. The QSI team will enhance the professional capacities of teachers and principals in areas such as teaching and learning, prioritization of school aims, and development of a continuous self-inquiry process.

The Chinese University, the Centre of University and School Partnership, and the Hong Kong Institute of Educational Research have been promoting comprehensive school development projects since 1997. To date, the University has been awarded grants totalling over HK\$130 million for such projects.



#### **COUNCIL NEWS**

- The Chancellor has nominated/renominated the following people as members of the Council of The Chinese University of Hong Kong:
  - Dr. Gerald L.C. Chan, chairman, Morningside Group; Sir C.K. Chow, chief executive officer, MTR Corporation Ltd.; and Sister Margaret K.L. Wong, principal, St. Paul's Convent School (from 27th November 2004 to 26th November 2007)
  - Mr. Ricky W.K. Wong, co-founder and chairman, City Telecom (H.K.) Ltd. (from 18th October 2004 to 17th October 2005)



Dr. Gerald L.C. Chan Sir C.K. Chow



Sister Margaret K.L. Wong

Mr. Ricky W.K. Wong

• The Honourable Cheung Man-kwong, the Honourable Kwong Chi-kin and the Honourable James P.C. Tien were elected by the members of the Legislative Council, from among their own number, as members of the Council of The Chinese University of Hong Kong each for a period of three years from 29th October 2004.

- Prof. Wong Nai Ching Henry, professor of chemistry, has been elected as Fellow to the Third World Academy of Sciences.
- Prof. Ng Kee Pui Dennis, professor in the Department of Chemistry, has been admitted as a Chartered Scientist by the Science Council, United Kingdom.
- Prof. Tony Lee, professor of information engineering, Prof. Jie Huang, professor in the Department of Automation and Computer-aided Engineering, and Prof. Zhou Xunyu, professor in the Department of Systems Engineering and Engineering Management, have been made IEEE Fellows for the class of 2005 by the Institute of Electrical and Electronics Engineers.
- Prof. Chan Wai Kwong Victor, professor in the Department of Music, has been presented the 2003 CASH Most Performed Works Award — Local Original Serious Work, by the Composers and Authors Society of Hong Kong (CASH) on 25th November 2004.
- Prof. Chan Wing Wah, professor of music, has been presented the 2004 CASH Golden Sail Music Award — Best Serious Composition, by CASH on 25th November 2004.
- Prof. Lo Yuk Ming Dennis, professor of chemical pathology, has been promoted to Fellowship of the Royal College of Pathologists effective from 4th January 2005.



## University Members Honoured

- Prof. Lau Wan Yee Joseph, professor of surgery, has been awarded the first annual Endoscopics Award jointly presented by endoscopic medical academic institutions in China, the Central South University, academic groups and research institutions, and the academic committee of the Endoscopic Medicine Academic Seminar in September 2004.
- Prof. S.T. Chang, emeritus professor of biology and director of the Centre for International Services to Mushroom Biotechnology, was awarded the Magnolia Silver Award by the Shanghai Municipal People's Government on 10th September 2004.
- Prof. Paul K.S. Chan, professor in the Department of Microbiology, has been admitted as Fellow of The Royal College of Pathologists on 4th January 2005.
- Dr. Zhou Chenxi and Dr. Chow Kin-kee, respectively researchers from the Epithelial Cell Biology Centre and the Department of Electronic Engineering of the Chinese University, were awarded the Young Scientist Award by the Hong Kong Institution of Science (HKIS) in recognition of their outstanding achievements in infertility and advanced optical fibre communications research.

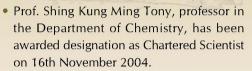
The HKIS established the Young Scientist Award to give recognition to young scientists demonstrating great promise in the areas of life science, engineering science, and physical/ mathematical science. This year a total of 57 candidates competed for the three awards. Dr. Zhou and Dr. Chow were winners of the life science and engineering science categories respectively.

Dr. Zhou together with Zhu Hu and Fok Kin Lam, students from the Department of Physiology, also won the Young Scientist Award at the International Symposium on Cell Biology — From Basic Research to Clinical Application, held from 14th to 16th October 2004 in Chongqing.

The competition targetted young scientists under the age of 35.



(From left) Fok Kin Lam, Zhou Chenxi, and Zhu Hu



- Prof. Ma Lai Chong Joyce, professor in the Department of Social Work, has been accepted as the Approved Supervisor of the American Association for Marriage and Family Therapy (AAMFT) from 7th March 2005.
- In a recent article entitled 'Social Psychology: Who We Are and What We Do', published by the Institute for Behavioral Research of the University of Georgia, Prof. Michael Harris Bond, professor of psychology, was named one of the most frequently cited social psychologists of the 1990s and one of two scholars on the list working outside North America.
- Prof. Leung Ho Fung, associate professor in the Department of Computer Science and Engineering, has been awarded the designation of Chartered Scientist by the Science Council, United Kingdom.
- Prof. Limin Yang, research assistant professor in the Joint Laboratory for Geoinformation Science, has been awarded the Environmental Systems Research Institute (ESRI) 2005 Best Scientific Paper in Geographic Information Science, as a coauthor of the paper.
- A research staff and a postgraduate student

from the Joint Centre of Biomedical Engineering (JCBME) of the Chinese University won three awards at the Sixth Asian-Pacific Conference on Medical and Biological Engineering, held from 24th to 27th April 2005 at the Tsukuba International Congress Centre in Japan.

Ms. Bao Shudi, a research assistant from JCBME, was awarded the Young Investigator's Award for her paper 'A New Symmetric Cryptosystem of Body Area Sensor Networks for Telemedicine'. She also won the Best Presentation Award of the Young Investigator's Award. Ms. Wong Yeeman, an M.Phil. student from JCBME, was awarded the Young Investigator Encouragement Award for her paper 'The Aging Effect on the Characteristic of Photoplethysmogram Waveform'.

• A poster created and presented by a team from the University beat over a thousand other entries to win second prize at the third Human Proteome Organization (HUPO) Annual Congress held in Beijing from 25th to 27th October 2004.

The team was headed by Prof. Mary Waye of the Department of Biochemistry and comprised Prof. K.P. Fung, Prof. Stephen Tsui, and postgraduate students Carol Lau and T.L. Yeung. Their poster was entitled 'Functional Characterization of RhoC and Rab14 in Liver Cancer Cells'.



# Sir T.L. Yang and Dr. Anthony Neoh, at the Helm of the CUHK Law School



The Chinese University of Hong Kong has appointed Dr. the Honourable Sir T.L. Yang (*left*) and Dr. Anthony Neoh (*right*), SC, as the Chairman and Vice-Chairman of the Executive Committee of the School of Law respectively. Prof. Liu Pak Wai, provice-chancellor, is the third member. The Executive Committee will provide strategic leadership to the School of Law and be responsible for its initial phase of operation, discharging the duties and functions of the School Board and serving as the dean until a dean is appointed. The School of Law will admit the first batch of students in 2006.

Sir T.L. is a distinguished and respected retired judge in Hong Kong. He is a former Chief Justice and a former Executive Council member. Sir T.L. has been a staunch supporter of higher education, in particular legal education. He has a long-standing relationship with the Chinese University. He has been a Council member of the University, the vice-chairman of the Chung Chi College Board of Trustees, and the convener of the Coordinating Committee of the Chinese Law Programme. In 1984, Sir T.L. was conferred Doctor of Laws, *honoris causa*, by the Chinese University. He is currently vice patron of the Hong Kong Federation of Youth Groups and chairman of the Hong Kong Red Cross. He was knighted in 1988 by Queen Elizabeth II and awarded the Grand Bauhinia Medal in 1999 by the HKSAR Government. He was also elected an Honorary Bencher of Gray's Inn in England in 2004.

Dr. Anthony Neoh is a senior member of the bar, and has been chairman of the Hong Kong Securities and Futures Commission as well as the chief adviser to the China Securities Regulatory Commission. Dr. Neoh was Nomura Visiting Professor of International Financial Systems at Harvard Law School in 2004. He is also visiting professor in many major universities in Mainland China, including Peking University and Tsinghua University. Dr. Neoh is currently a Council member of the Chinese University.

#### **Distinguished Professor-at-Large**

**Prof. Andrew Yao Chi-chih**, world renowned computer scientist and Turing Award winner, has been appointed Distinguished Professor-at-Large of the University from 3rd January 2005.

Named after Alan M. Turing, the British mathematician known as the father of modern computer science, the

Turing Award is widely regarded as the Nobel Prize of computer science. Prof. Yao is the first Chinese scientist to receive this prestigious award.

Born in Shanghai, Prof. Yao obtained his Ph.D. in physics in 1972 from Harvard University and his second Ph.D. in computer science from the University of Illinois in 1975. In 1986, he joined Princeton University as William and Edna Macaleer Professor of Engineering and Applied Science. In 2004, he became a professor of computer science at Tsinghua University in Beijing.

Prof. Yao is a member of the US Academy of Sciences, a Fellow of the American Academy of Arts and Sciences, and a member of Academia Sinica in Taiwan. He was elected a foreign fellow of the Chinese Academy of Sciences in 2004.

#### **Emeritus** Professors

Prof. Wong Chak-kuen was awarded the title of Emeritus Professor of Computer Science and Engineering from 1st September 2004; Prof. Lee Cheuk-yu and Prof. Yeung Yue-man were awarded the title of Emeritus Professor of Biochemistry and Emeritus Professor of Geography respectively from 20th April 2005.

● Prof. Wong Chak-kuen joined the Chinese University as professor of computer science in 1995, and served as chairman of the Department of Computer Science and Engineering from 1995 to 1997. He retired from the University on 1st September 2004.

#### Professor of Automation and Computer-aided Engineering

**Prof. Xu Yangsheng** has been appointed professor of automation and computer-aided engineering from 1st October 2004.

Prof. Xu received his Ph.D. from the University of

Pennsylvania in 1989. He is a fellow of the Institute of Electrical and Electronic Engineers, the International Eurasian Academy of Science, and the Hong Kong Institution of Engineers. He joined the Chinese University as associate professor in the Department of Automation and Computer-Aided Engineering in 1997, becoming professor in 2000.

**Professor of Virology** 

**Prof. Kung Hsiang-fu** has been appointed professor of virology at the Centre for Emerging Infectious Diseases from 4th December 2004.

Prof. Kung received h is Ph.D. from Vanderbilt University in







Prof. Wong is a world-class researcher with four US patents, three books, and 300 papers under his name. He is a fellow of the Institute of Electrical and Electronic Engineers and the Association for Computing Machinery.



Prof. Lee Cheuk-yu joined the Chinese University in 1972 as lecturer in biochemistry.

After 31 years of service to the University, he retired as professor of biochemistry in July 2003. During the period, he served as chairman of the Department of Biochemistry for 20 years and as head of United College for 10 years,



among other important positions.

Prof. Lee has specialized in research on human heart cDNA sequencing, signal

the US in 1969. Prior to joining CUHK, he was chief of the Biochemical Physiology Laboratory of the National Institutes of Health, US, from 1986 to 1999, and director and chair professor of the Institute of Molecular Biology at the University of Hong Kong from 1999 to 2004.

Prof. Kung was elected to membership of the Chinese Academy of Sciences in 1999. His research has led to the publication of 268 papers in peer reviewed journals.

#### **Professor of Humanities**

**Prof. Hugh Baker** has been appointed professor of humanities from 18th February 2005.

Prof. Baker received a Ph.D. in oriental studies from the University of London in

transduction and tumour biochemistry, and has published over 130 scientific papers.

Prof. Yeung Yue-man had served as professor of geography at the Chinese University for two

decades before his retirement on 31st July 2004. During that period, he was also appointed to many important University positions on a concurrent basis, including University Registrar, head of Shaw College, director of the



Hong Kong Institute of Asia-Pacific Studies, and director of the Shanghai-Hong Kong Development Institute. He has been serving as director of the two institutes even after his retirement.

An outstanding urban geographer, Prof. Yeung has published 38 authored or edited books and over 160 articles and book chapters. He was awarded OBE in 1996 and received the Silver Bauhinia Star from the government of the HKSAR in 2003.



1967. He taught Chinese for 35 years and spent much of his life conducting research on China and Hong Kong. He has been consultant to the Hong Kong Department of the Foreign and

Commonwealth Office of the UK and Chinese language training adviser to the Hong Kong government. He was appointed professor emeritus of Chinese by the University of London in 2002.

Prof. Baker has published a great number of books and articles on China and Hong Kong.

#### **PROFESSORIAL APPOINTMENTS**

#### **Professor of Infectious Diseases**

**Dr. Lee Shui-shan** has been appointed professor of infectious diseases at the Centre for Emerging Infectious Diseases from 3rd May 2005.



Dr. Lee received his MB BS from the

University of Hong Kong in 1982 and his MD in 1995. Prior to joining CUHK, he had, since 1991, been consultant physician and head of the Special Preventive Programme of the Department of Health in Hong Kong. He had also been honorary consultant at the Department of Medicine and Geriatrics of the Princess Margaret Hospital since 2002, and honorary professor at the Department of Microbiology of the University of Hong Kong since 1999.

Dr. Lee is a fellow or member of many medical colleges.

#### **Professor of Public Health**

**Prof. Siân Griffiths** has been appointed professor of public health from 6th May 2005.

Prof. Griffiths has had extensive experience lecturing and practising medicine in



the UK since she obtained her MB B.Chir. from Cambridge University in 1977. She has been chair of the Association of Public Health, president of the Faculty of Public Health of the Royal College of Physicians, and co-chair of the Hong Kong government's Expert Committee on SARS. Prior to joining the Chinese University, she was a senior clinical lecturer in the Department of Public Health and Primary Care, Oxford University.

Prof. Griffiths is a fellow or member of numerous medical associations in the UK and a referee of many academic journals.

#### Croucher Foundation's Support for Research

#### Three Scholars Awarded Senior Research Fellowships

Prof. Zhou Xunyu of the Department of Systems Engineering and Engineering Management, Prof. Wei Juncheng of the Department of Mathematics, and Prof. Xia Keqing of the Department of Physics were presented the prestigious Senior Research Fellowships of The Croucher Foundation on 16th March 2005 by Chief Justice Andrew K.N. Li of the Court of Final Appeal.

The Croucher Senior Research Fellowships scheme was first introduced in the 1997–98 academic year. The value of each fellowship is about



(From left) Prof. Henry Wong, chairman of the Research Committee, Prof. Wei Juncheng, Prof. Xia Keqing, Prof. Zhou Xunyu, and Prof. Lau Ka-sing, chairman of Mathematics Department



US\$100,000. It is awarded to local academics who have excelled in scientific research. In recognition of their success and to encourage their further achievement in their given fields, funds will be awarded to the respective institution for recruiting an academic to take over the awardee's duties for the period of the fellowship. The awardee will then be relieved from his teaching load for six months or one year and in turn may devote more of his time and effort to research. Each awardee will also receive a cash award of HK\$40,000.

#### Six Students and a Teacher Granted Awards on Overseas Research Studies

Two Ph.D. students, an assistant professor, and four M.Phil. students of the Chinese University were awarded scholarships by the Croucher Foundation to pursue research studies overseas.

Name	CU Department/Programme	Host Institution	Subject
Ms. Chow Shuk-nga,	Anatomical and	Harvard Medical School	Cancer biology
Lilian	Cellular Pathology		
Ms. Leung Bo-wah	Anatomy	University of Oxford	Virology
Prof. Liu Kai-sui	Information Engineering	University of Bristol	Computer science
Miss Choy Wai-yan	Molecular Biotechnology	U.C. Berkeley	Cell biology
Mr. Lam Hiu-wai	Automation and Computer- aided Engineering	Massachusetts Institute of Technology	Mechanical engineering
Mr. Mak Sui-tung, Terence	Systems Engineering and Engineering Management	Imperial College London	Bioinformatics
Mr. Ng Ping-chung	Information Engineering	University of Oxford	Information engineering

#### CUHK Recipients of Croucher Fellowship/Scholarship

#### CUHK Laboratory Named After Noel Croucher

The Croucher Laboratory for Human Genomics was established on 19th November 2004 in the Mong Man Wai Building on campus, bolstering the advanced study of genes at the University. The laboratory is one of seven Croucher laboratories set up at various universities in Hong Kong, and named after Noel Croucher in recognition of the foundation's support for science in the last 25 years. Over the years, the University received generous donations of over HK\$80 million from the Croucher Foundation.

The laboratory was founded on the achievements of the Laboratory of Human Genomics, as a result of close collaborations among a number of researchers. Scientists working in the laboratory have recently made important discoveries on the functional characteristics of human genes including those important to liver cancer development and the cardiovascular systems.



Officiating at the opening ceremony were Prof. Y.W. Kan (right 2), chairman of the Board of Trustees of the Croucher Foundation, Prof. Lawrence J. Lau (left 2), vicechancellor of the University, Prof. Fok Tai-fai (right 1), dean of the CUHK Faculty of Medicine, and Prof. Mary Waye (left 1), director of the laboratory.

## Naming and Inauguration Ceremony of New Jacilities for Engineering Research

The naming ceremony of the William M.W. Mong Engineering Building and the inauguration ceremony of the Shun Hing Institute of Advanced Engineering took place on campus on 25th October 2004. The engineering building is named after Dr. William M.W. Mong, chairman and senior managing director of the Shun Hing Group, in appreciation of his generous support over the last three decades for the University's academic, research, and technological development.

Located on central campus, the building has 13 storeys, with a total floor area of 13,862 square metres. It provides purpose-designed and stateof-the-art teaching and laboratory facilities for the Departments of Automation and Computer-Aided Engineering, Information Engineering, and Systems Engineering and Engineering Management. It is equipped with a multi-media lecture theatre with 243 seats.

The Shun Hing Institute of Advanced Engineering will spearhead advanced engineering research, create synergy with world-class researchers, engage in technology transfer, and promote appreciation of engineering in society through education programmes. Initially its research will be focused on two areas: biomedical engineering and multimedia technologies.

Mr. David Mong, chairman of the Shun Hing Education and Charity Fund, will chair the advisory board of the institute as its inaugural chairman.



(From Left) Prof. Benjamin W. Wah, advisory board member of the institute; Prof. Peter Yum, dean of engineering; Ms. Cheung Man-yee, vice-chairman of the Shun Hing Education and Charity Fund; Dr. William M.W. Mong; Prof. Lawrence J. Lau, vice-chancellor of the University; Mr. David Mong; and Prof. Ching Pak-chung, director of the institute

#### **GIS Laboratory Steps up Cooperation with US Partner**

The Joint Laboratory for Geoinformation Science (JLGIS) of The Chinese University and the Chinese Academy of Sciences signed a letter of intent with the Earth Resources Observation Systems Data Center of the United States Geological Survey (USGS) on 13th November 2004. The move is expected to enhance cooperation between these centres of excellence in the areas of remote sensing, geographic information systems, information technology, and data

archive and management.

Prof. Lin Hui, director of JLGIS, and Mr. Jay Feuquay, USGS programme coordinator for land remote sensing, represented their respective institutions to sign the letter of intent.

The USGS, established in 1879, provides the US and the world with the science needed to make important decisions and safeguard society. The Earth Resources Observation Systems Data Center is the world's largest archive centre of aerial and satellite remote sensing data.



## Global Business Programme Launched by Business Schools from Three Continents

The University's Faculty of Business Administration is partnering with Kenan-Flagler Business School of the University of North Carolina (UNC) at Chapel Hill, and Copenhagen Business School (CBS) to launch a pioneering international programme in undergraduate business.

Students of this innovative programme — the Global Learning Opportunities in Business Education (GLOBE) Programme, will study at all



three campuses, learn about international business from expert faculty members at all three schools, build and apply teamwork and leadership skills, visit corporations in Brussels, Berlin, Shanghai, Tokyo, Washington D.C., and Research Triangle Park in North Carolina, and collaborate as members of virtual teams in their learning.

The first GLOBE students will be selected for the three-year programme at CUHK and CBS

in autumn 2005, and for UNC's two-year programme in autumn 2006.

GLOBE was officially launched on 27th October at the annual Partnership in International Management Conference in Hong Kong.

(From left) Prof. Finn Junge-Jensen, president of CBS, Prof. Kenneth Young, CUHK acting vicechancellor, Mr. Mark Scullion, associate director of global programmes, UNC Kenan-Flagler, and Prof. T.S. Lee at the official launch of the programme on 27th October



Prof. Lin Hui (right 2) toasting Prof. Lawrence J. Lau (left 1), vice-chancellor of the University, and Ms. Barbara Ryan (left 2), associate director for geography of USGS

Prof. Lin Hui and Mr. Jay Feuquay

## Deserving Schools Receive Healthy Schools Award

ifteen local schools were presented the Hong Kong Healthy Schools Award by the Centre for Health Education and Health Promotion of the University's Faculty of Medicine and the Education and Manpower Bureau (EMB) of the HKSAR. The schools have all achieved the standards of Health Promoting Schools set by the World Health Organization. Officiating at the awards presentation ceremony on 13th November 2004 were Dr. Linda Milan, director of building healthy communities and populations, WHO Western Pacific Region Office, Dr. K.K. Chan, principal assistant secretary (curriculum development) of the Education and Manpower Bureau, Dr. Regina Ching, assistant director of the Centre for Health Protection, Department of Health, Mr. Justein Wong Chun, chairman of the Quality Education Fund Assessment and Monitoring Subcommittee.



Representatives from award winning schools and the officiating guests

#### **Opening of Chan Chun Ha Hostel**

The Opening Ceremony of Chan Chun Ha Hostel, the fourth student residence of United College, took place on 21st February 2005.

The Chan Chun Ha Hostel was made possible by a generous donation of over HK\$20 million from the Chan Chun Ha Charitable Trust. Situated in the valley north of the T.C. Cheng Building, the 10-storey hostel commands a scenic view of Tolo Harbour. The hostel provides a total of 300 places and has its own roof garden and gallery for activities and exhibitions. Rooms in the hostel are designed for double occupancy, with four specially equipped for students with disabilities. Floors are linked by a lift and a walk-bridge connects the hostel to United campus.



(From left) Dr. Thomas H.C. Cheung, president of the United College Alumni Association; Prof. Lawrence J. Lau, vice-chancellor of the University; Mr. C.P. Lin, trustee of the Chan Chun Ha Charitable Trust; Mr. Shum Choi Sang, chairman of the United College Board of Trustees; and Prof. K.P. Fung, head of United College.



## **Research Centre for Chinese Ancient Texts Established**

The Research Centre for Chinese Ancient Texts was established under the Institute of Chinese Studies on 1st April 2005. The forerunner of the

centre was the Chinese Ancient Texts (CHANT) Project which was set up in 1988 to construct an electronic database of the entire corpus of traditional and excavated ancient Chinese texts and publish them via various media as valuable research tools for scholars, academia and the public. Prof. Ho Che Wah of the Department of Chinese Language and Literature has been appointed director of the centre.



## **Graduate Students Launch Healthcare Products**



MBA student Carol Fan (left), Ph.D. candidate Yan Yongseng (seated), Arion Maniatis (middle), and Tony Liu (right)

A group of CU graduate students have their eyes on the huge consumer market in China where both hypertension cases and healthconsciousness are rapidly increasing. Their company, Golden Health, aims to manufacture and commercialize an innovative and inexpensive blood pressure measuring device to increase people's health awareness and improve their quality of life. The core technology was developed by a research team at CUHK's Joint Research Centre of Biomedical Engineering of the Department of Electronic Engineering. Known as 'QuickSense', the device continuously measures blood pressure electronically without the need for bulky, inflated cuffs.

The start-up expenses of Golden Health will amount to US\$65,000. The company has been invited by the University's Centre for Innovation and Technology to join its incubation programme with free office space for the first year.

## CUHK EMBA: 12th in Global Ranking and Taking the Lead in the Asia-Pacific

The Executive MBA Programme of the Chinese University received its highest ever ranking from *Financial Times* since the London-based business newspaper conducted its first EMBA ranking in 2001.

*Financial Times,* in its latest global survey of over 80 EMBA programmes, ranked the CUHK EMBA Programme number 12 worldwide — a leap from number 20 in 2002 and 2003. The programme was also declared the top independent EMBA programme in the Asia-Pacific for two consecutive years from 2003, and the best Independent EMBA Programme in Asia for the fourth year in a row.

The programme was also assessed to be the best worldwide in terms of the percentage of women students, and among the top 10 in terms of the percentage of international faculty and alumni's salaries in consulting. It also did very well in areas including salary increase, aims achieved, women faculty, percentage of women advisory board members and of international advisory board members. The programme is also one of only two in the top 12 where the medium of instruction is bilingual.

## MBA Programme in Finance Ranked among Most Influential in China

The MBA Programme in Finance offered jointly by the Chinese University and Tsinghua University in Beijing has been ranked top 10 by the World Business Newswire in its annual ranking of 'The Most Influential Mainland China-Foreign (Including Hong Kong) Partnership MBAs'. It is the only programme involving a Hong Kong institution to make the list. The ranking is believed to be a reflection of the overall standing and commercial value of MBA programmes in the eyes of employers in China.

In this ranking, a programme is assessed only if the foreign partner is listed in the rankings of US-based *Business Week* or those of London-based *Financial Times*, and the domestic partner must be an MBA institution approved by the Ministry of Education of PRC.

## DEPARTMENT OF ECONOMICS TOPS RANKING IN HONG KONG

The Department of Economics has been ranked number one by the Hong Kong Economic Journal Monthly among all economics programmes offered by the seven universities in the territory. The department came first in all three criteria adopted by the magazine — overall research performance, proportion of teaching staff with doctoral degrees, and employers' evaluation of graduates.

According to the survey published in issue 334 of the *Hong Kong Economic Journal Monthly*, teaching staff of the department had the highest per capita publication output in international academic journals. The work ability, work attitude, and language ability of its graduates were also highly rated by their employers. Prof. Sung Yun-wing, chairman of the department, said the department puts great emphasis on research and has the widest course selection among the local universities. It is especially well known for research in economic theory, labour economics, and the Chinese economy.



## CUHK Highly Rated and to be Awarded Largest Funding from UGC

The Chinese University of Hong Kong is to receive HK\$6.36 billion from the University Grants Council (UGC) for the 2005–8 triennium, the largest allocation among the eight local tertiary institutions. UGC has also rated highly the University's performance against its role in teaching and research. In the assessment of the Performance and Role-Related Funding Scheme (PRFS), the University 'earned back' the 10 per cent of recurrent funding in the PRFS exercise, plus a significant extra one-off allocation to further encourage the University's high performance in key areas of activity relating to its role. The University regards this as a recognition of its achievements in teaching and research, and of its strategic vision as a leading university in the region.

# Celebrating Prof. Hu Shiu Ying's 100th Cirthday

The Chinese University hosted a symposium on 1st March 2005 to celebrate the 100th birthday of Prof. Hu Shiu Ying, renowned botanist and honorary professor of Chinese Medicine.

The symposium was co-organized by Chung Chi College, School of Chinese Medicine, Department of Biology and Institute of Chinese Medicine. Over 300 guests including CUHK staff and students, government officials, Chinese medicine practitioners, and scholars from mainland and overseas participated in the event.

Prof. Hu took up the position of senior lecturer in the Department of



Biology of Chung Chi College in 1968. She is currently honorary professor of Chinese Medicine, senior college tutor of Chung Chi College and emeritus senior research fellow of Arnold Arboretum, Harvard University. New Clinic Encourages Marriage of Western and Chinese Medicine



(From left) Prof. K.S. Woo, Prof. P.C. Leung, Prof. T.F. Fok and Prof. Ellis Hon announcing the establishment of the new clinic

The Research Clinic for Integrated Medicine was established on 23rd March 2005 to foster research projects that adopt an integrated approach of mainline medicine and traditional Chinese medicine (TCM). The clinic is in line with the Hospital Authority's initiative of introducing TCM service into public hospitals.

The Clinical Trial Section of the Institute of Chinese Medicine was set up in 2001 at the School of Public Health Building of the Prince of Wales Hospital. Over 30 clinical and related trials involving the combination treatment of mainline medicine and TCM are currently underway. With the support of the CUHK Faculty of Medicine, the Institute of Chinese Medicine, and the Hospital Authority, the clinic will further its clinical research, support and consultation services involving the use of TCM for clinical departments at four other public hospitals, namely Kwong Wah Hospital, Yan Chai Hospital, Alice Ho Miu Ling Nethersole Hospital, and Pok Oi Hospital.

## CUHK Responds to Educational Reform Proposals

The Chinese University has submitted its feedback to the Education and Manpower Bureau in response to its consultation paper on the 3+3+4 reform. CUHK strongly endorses the plan to change to six years of secondary school and four years of university and urges its early adoption. The University's feedback can be found in its entirety at www.cuhk.edu.hk/en/ about.htm.



# BUSINESS SCHOOL RECOGNIZES EXCELLENCE IN INDUCTION AND AWARD CEREMONIES



The Faculty of Business Administration presented awards to some of its most outstanding teachers and students, and held the sixth induction ceremony of the CUHK Chapter of Beta Gamma Sigma and the award presentation ceremony on 20th March 2005 at Sir Run Run Shaw Hall. About 400 teachers, students and guests attended the function.

Six teachers were awarded the Outstanding Teacher Award for excellence in teaching. They were Prof. Joseph Cheng of the Department of Finance, Prof. Jessica Kwong of the Department of Marketing, Prof. James Xie and Mr. Simon Lee of the School of Accountancy, Prof. Shigefumi Makino of the Department of Management, and Prof. Jeff Yeung of the Department of Decision Sciences and Managerial Economics. On the same occasion, 170 undergraduates who made it to the Dean's List and nine recipients of the Service Award for Undergraduates were presented certificates of award.

At the sixth induction ceremony of the CUHK Chapter of Beta Gamma Sigma, two prominent business leaders, Mr. Stephen Ng Tin-hoi, chairman and CEO of i-CABLE Communications Ltd. and Mr. John Tsang Chun-wah, Secretary for Commerce, Industry and Technology, were presented the Chapter Honoree Award. One faculty member, 42 graduates, and 56 undergraduates were inducted into Beta Gamma Sigma membership in recognition of their achievements in business.



## **SHKP Nobel Laureates Distinguished Lectures**

**P**rof. Sir James A. Mirrlees (*left*) and Prof. A. Michael Spence (*right*), Nobel laureates in economic sciences for 1996 and 2001 respectively, were invited by the Chinese University and Sun Hung Kai Properties (SHKP) to deliver public lectures under the Sun Hung Kai Properties Nobel Laureates Distinguished Lectures programme on 9th November 2004.

The programme, made possible by a donation from SHKP, aims at introducing top-notch scholars to the Hong Kong public, promoting professional and entrepreneurial expertise, and encouraging scholarly pursuits. The lectures took place at the Grand Hyatt.

Prof. Sir James A. Mirrlees spoke on 'Ageing and Pensions in the Chinese Economies' and Prof. A. Michael Spence discussed 'Economic Growth, the Internet, and the Evolving Structure of Global Markets: Opportunities and Challenges'. The lectures attracted a full house of close to 1,000 people, including government officials, and members of the academic, education, and business sectors.

## New Jacilities Deveoted to Research and Promotion of Philosophy and General Education

Two research centres and an archive have recently been established at the Chinese University thanks to a generous donation of HK\$22.5 million by the Edwin S.L. Cheng Research Fund for General Education and Philosophy. At a ceremony held on 29th April 2005, Mr. Edwin S.L. Cheng and family presented the cheque to Prof. Lawrence J. Lau, vicechancellor of the University.

The Research Centre for General Education, set up under the Office of University General Education, strives to deepen discourse and reflection on general education and the idea of a university, foster exchange



(From left) Prof. Cheung Chan-fai, Prof. Kwan Tze Wan, and Prof. Liu Xiaogan

on general education practices in tertiary institutions in different regions, and promote general education development in Chinese communities. It will be headed by Prof. Cheung Chan-fai, director of University General Education and professor in the Department of Philosophy.

The Research Centre for Chinese Philosophy and Culture has three fundamental aims: to continue the Chinese humanistic tradition established by Ch'ien Mu, Tang Chun-I, and Mou Tsung-san at New Asia College and the Chinese University, to explore new directions in the study of Chinese philosophy and culture, and to promote academic exchange between researchers the world over. The centre will be headed by Prof. Liu Xiaogan, professor in the Department of Philosophy.

The new Archive for Phenomenology and Contemporary Philosophy of the Department of Philosophy marks a new phase in the development of phenomenology in Hong Kong, mainland China, and Asia. The archive will leverage on the department's experience, network, and library resources on phenomenology. The archive is headed by Prof. Kwan Tze Wan, chairman of the Department of Philosophy.

## The School of Continuing Studies Celebrates 40th Anniversary

The School of Continuing Studies (SCS) of the Chinese University is celebrating its 40th anniversary this year. The opening ceremony was held on 12th March 2005 and followed by a series of celebratory events.

Embarking on the journey of its fifth decade, SCS has adopted 'Life-long Learning for Life-long Success' as its motto to further its commitment to lifelong education.



## CUHK TEAMS UP WITH MICROSOFT

The Microsoft-CUHK Joint Laboratory for Human-Centric Computing and Interface Technologies was inaugurated at the University on 4th May 2005. Officiating guests included Prof. Lawrence J. Lau, vice-chancellor of the University, Dr. Hon Hsiao-wuen, assistant managing director of Microsoft Research Asia, Prof. Andrew Yao, Turing Award winner and distinguished professor-at-large of the University, and Prof. Peter Yum, dean of the CUHK Faculty of Engineering.

CUHK and Microsoft Research Asia have had a long-standing academic and research relationship. The founding of the joint laboratory



Dr. Hon Hsiao-wuen (left) and Prof. Lawrence Lau

will further draw upon the research strengths of both to develop innovative human-centric computing and interface technologies that improve the quality of life. The laboratory will strive to promote collaboration between academia and the information technology industry, provide leading research infrastructure, and nurture talent.

## CUHK Awarded NIH Grant for Anticancer Botanical Research Centre

The Institute of Chinese Medicine (ICM) of the Chinese University has been awarded a sponsorship by the National Institutes of Health (NIH), USA, to establish a Research Centre for Botanical Immuno-modulators in collaboration with the Memorial Sloan-Kettering Cancer Center (MSKCC) in New York, a world-renowned centre for cancer treatment and research supported by the Rockefeller Foundation and linked with Columbia University and Cornell University. It is the first joint research centre devoted to the area between a US and a non-US medical institute



## JLGIS Leads Effort to Map Hong Kong's Terrestrial Habitat

The Joint Laboratory for Geoinformation Science (JLGIS) has completed a study to update Hong Kong's terrestrial habitat mapping and ranking based on conservation value using the latest remote sensing and geospatial data and data collected from field surveys. The four-month study was commissioned by the Sustainable Development Unit (SDU) of the Administration Wing of the HKSAR government.

The research team consisted of teaching staff, technicians, surveyors, and graduate and undergraduate students from the Chinese University, and partners. The key deliverables of the study included a Digital Terrestrial Habitat Map and Conservation Assessment Map of Hong Kong based on 2004 SPOT satellite image and other geospatial data, and an expansive field database of 370 sites surveyed throughout Hong Kong's land territory.

The study provides the most up-to-date information on habitat types and conversation values for Hong Kong. The habitat map allows



for quantification and assessment of existing natural habitats and study of its status and trends when compared with the habitat maps developed in previous studies. The conservation map for each habitat portrays areas in detail with various levels of conservation status, and provides useful data for sustainability assessment.

The field database also contains information on plant species and communities as well as the importance of conserving various habitat types. There are also panoramic photos of each site surveyed.

to receive NIH support.

The new centre will investigate botanicals with reported ability to modulate immune function and their relevance for cancer treatment. It will aim at advancing scientific knowledge about the safety, efficacy and mechanisms of anticancer herbs. Its key area of interest will be immunomodulating influences — either directly supporting the patient consumers, indirectly through support of existing resistance, or both.

The ICM will draw up a list of herbs with anti-cancer potential, acquire samples, authenticate quality, ensure consistency, and extract active components. The MSKCC will work on the biological effects of the selected herbs with a view to setting standards for future development.



(From left) Prof. Leung Ping-chung, chairman of the Management Committee of ICM, Dr. Barrie Cassileth, chief (integrative medicine), MSKCC, and Prof. Fung Kwok-pui, vice-chairman of the Management Committee of ICM

#### **CUHK Sets up Centre for the Study of Humanistic Buddhism**

The Department of Cultural and Religious Studies has established a Centre for the Study of Humanistic Buddhism to promote Buddhist culture.

The centre will focus on promoting Buddhist studies, training scholars, enhancing global academic exchange among scholars and promulgating Buddhist culture.

It will invite eminent Buddhist scholars worldwide to the University as visiting professors to conduct research and to give lectures. The foci of its research will include Buddhism and Chinese society, Buddhism and contemporary ethical and cultural



(From left) Venerable Master Hsing Yun, director of Fo Guang Shan Foundation for Buddhist Culture and Education, and Prof. Lawrence J. Lau, vice-chancellor of the University

issues, and comparative studies and dialogues between Buddhism and other religions. With the aim of promulgating Buddhist culture and enhancing academic exchange, the centre will organize academic conferences and publish academic works on Buddhist studies such as periodicals and books in Chinese and other languages.

## Naming of New PC3 Laboratory

The University's physical containment level 3 (PC3) laboratory was officially named the Lo Kwee-Seong Research Laboratory of Infectious Diseases on 12th May 2005, in recognition of a HK\$5 million donation from the K.S. Lo Foundation. The generous donation will support research on infectious diseases. The ceremony was conducted at the Postgraduate Education Centre of the Prince of Wales Hospital.

The laboratory will be used to conduct high-risk research projects on SARS, avian influenza, and HIV infection.



(From left) Prof. T.F. Fok, dean of the Faculty of Medicine, Dr. Peter Lo, chairman of the K.S. Lo Foundation, Prof. Lawrence J. Lau, vicechancellor of the University, and Prof. Joseph Sung, director of the Centre for Emerging Infectious Diseases of the University



## Student Achievements

#### CUHK Student Wins Gold at Hang Lung Mathematics Awards

Five students of the Chinese University were winners of the gold award, the bronze award, and honorary mention of this year's Hang Lung Mathematics Awards, organized jointly by Hang Lung Properties, the Institute of Mathematical Sciences, and the Department of Mathematics of the University.

Participating teams had to choose their own research topics, submit written reports, and give oral presentations to a panel of world-renowned mathematicians headed by Prof. Yau Shing Tung, distinguished professor-at-large of the University.

Edward Fan (*left 1*), a first-year student at the CUHK Department of Mathematics, was the winner of the gold award. Edward had entered the competition on his own and defeated over 90 teams in Hong Kong to become the champion.



The bronze award went to a team comprising Lau Hoi Kwan and Yeung Shek of the Department of Physics and Ho Man Kit of the School of Accountancy. Ma Chit of the Department of Mathematics received an honorary mention.

#### BBA Team Placed Second in International Competition

The Chinese University's BBA team was firstrunners-up in the Copenhagen Business School (CBS) Case Competition, the most important international case competition in Europe, held in Denmark on 4th March 2005.



This year the competition drew teams from 12 internationally renowned business schools from the world over. Contestants were asked to draft a proposal for the global power giant Schneider Electric to market its Intelligent House

> Concept (IHC) system in Northern Europe within 32 hours.

The adjudicators were impressed by the presentation of the CUHK team. This is the second year that CUHK has participated in the CBS Case Competition. Only teams in the top three can participate in the competition of the following year.

The CUHK team: (from left) Weisi Yuen, Helen Ngan, Liza Wang, Clara Lo, and Prof. Gordon Cheung

#### Chemistry Ph.D. Candidate Wins Poster Award

A fourth year Ph.D. student of the Department of Chemistry, Ms. Lo Pui-chi, received the Professor Sunney I. Chan Poster Award in the 8th International Symposium for Chinese Organic Chemists and the 5th International Symposium for Chinese Inorganic Chemists held from 19th to 22nd December 2004 on campus. Out of a total of 193 posters, three were selected for this award and Ms. Lo was the only recipient from Hong Kong. The research results were published in the prestigious journal *Chemistry — A European Journal* and the paper was classified as a 'Very Important Paper (VIP)'.



Ms. Lo Pui-chi and Prof. Sunney Chan

## Sports Science Graduate Receives Research Award

Daniel Fong Tik-pui, former M.Sc. student of the Department of Sports Science and Physical Education, has been awarded the OSH Best Project Award for the Academic Year 2003-4 by the Occupational Safety and Health Council of the HKSAR Government, for his research project 'Biomechanical Study on Prevention of Occupational Slip and Falls in Hong Kong'. Daniel's project supervisor was Prof. Hong Youlian.

#### CUBA Team Won Business Administration Paper Competition

A team of Year 3 CUBA students won this year's Business Administration Paper Competition organized by The Hong Kong Federation of Business Students. They were Catherine Chan, Ceci Yau and Steve Leung from the Department of Finance, and Christine Cheung of the BBA Programme. Their marketing objective was to convince target customers that their client insurance company was the most caring and professional global insurer to be relied on as life partner.



The CUHK champions receiving their cups from Mr. Bernard Chan (centre), chairman of the Evaluation Committee of the finals



#### Music Graduate Wins Top Dissertation Prize

At the annual conference of the Society for Western Music held in Shanghai, Zheng Zhong (*right*), former Ph.D. student at the Chinese University, was awarded first prize for his dissertation 'A Study of Messiaen's Solo Piano Works' by 12 eminent scholars in the field. The event was held from 27th to 30th March 2005 under the auspices of the Chinese Musicians' Association, the Shanghai Conservatory of Music, the Central Conservatory of Music, and the Conservatory of Hangzhou Teachers' College.



# Psychology Student Wins First R.C. Lee Centenary Scholarship



Wong Kwai-ling (*right*) of Chung Chi College has been awarded the R.C. Lee Centenary Scholarship. Miss Wong is a final-year student majoring in psychology. She will pursue doctoral studies in cognitive psychology at Vanderbilt University in the US in August 2005.

The R.C. Lee Centenary Scholarship was established by the Drs. Richard Charles and Esther Yewpick Lee Charitable Foundation to commemorate the hundredth anniversary of the birth of Dr. Richard Charles Lee.

# CUHK Graduates Win Best Paper Award of the Association of American Geographers

Two CU graduates won the first and second prize respectively of the Best Student Paper Award of the Association of American Geographers in early April 2005. This marked the first time one of the awards was bestowed on a non-American student.

Yu Hongbo (*right*), a former master student of the CUHK Department of Geography and Resource Management now pursuing doctoral studies in the US, was awarded the first prize in the Best Student Paper Award. Li Xiang (*middle*), a Ph.D. graduate of the same department won



the second prize in the geographic information systems section of the award. He is the first non-US student to receive the honour since it was established in 1991.

## **Medical News**

#### **New Treatment**

#### New Hope for Advanced NPC Patients

Targetting advanced nasopharynx cancer (NPC) patients, the Department of Clinical Oncology of the Faculty of Medicine has pioneered intensity-modulated radiotherapy (IMRT) to increase local control rate, and applied the novel approach of molecular targetting to the clinical setting.

Conventional radiotherapy has a local control rate of around 60 per cent in NPC patients with locally advanced disease. For the past five years, the radiation oncology team at the Prince of Wales Hospital has developed the use of IMRT to improve local control in patients with advanced disease. The application of the technique on the largest cohort of advanced NPC patients in Asia achieved a three-year local control rate of 88 per cent. The results are reported in the December issue of the International Journal of Radiation Oncology, Biology and Physics by Dr. Michael Kam, honorary clinical assistant professor of the Department of Clinical Oncology, who spearheaded the development of IMRT.

Similarly Prof. Anthony Chan, director of the Hong Kong Cancer Institute and chairman of the Department of Clinical Oncology, and Prof. Qian Tao, head of the Cancer Epigenetics and Tumour Virology Laboratory, Sir Y.K. Pao Centre for Cancer, have successfully demonstrated for the first time in a group of NPC patients who have failed standard therapies, that demethylation of the EBV genome can be achieved using azacytidine. The study was published in the *Journal of Clinical Oncology*.

Groundbreaking studies such as these ones conducted by the Faculty of Medicine have significantly improved the survival rates of advanced NPC patients.



(Fron left) Prof. Qian Tao, Prof. Anthony Chan, Dr. W.H. Kwan, and Dr. Michael Kam



Dr. Stanley Ho, chairman of the foundation, and Prof. Fok Tai-fai, dean of the CUHK Faculty of Medicine

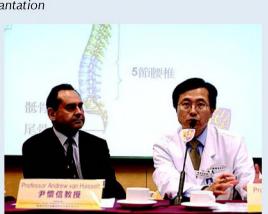


#### HK's First Artificial Cervical Disc System Implantation

The Division of Neurosurgery of the Department of Surgery has successfully performed the territory's first implantation of artificial cervical disc system on a 33-year-old patient to relieve nerve root and spinal cord compression caused by a damaged disc. The artificial disc allows for motion and therefore reduces neighbouring disc degeneration which the traditional procedure does not. Recovery is also speedy.

Cervical disc damage is usually associated with degenerative changes. Discs lose their water content and shock absorption properties because of age. When a disc ruptures in the cervical spine, it puts pressure on the nerve roots and the spinal cord, causing pain and other symptoms in the neck and arms and urine incontinence. About 30 to 40 per cent of Hong Kong people aged 40 or above have cervical spondylosis and the percentage increases with age. In severe cases, surgery is needed.

In the traditional procedure to alleviate neck and arm pain, bone graft is placed between



*Prof. Poon Wai-sang (right) announcing the achievement of the new technique at a press conference on 16th December 2004* 

adjacent vertebral bodies which heels over several months until fusion occurs. However, since six columns of cervical spine, instead of seven, are left, physical stress to each column increases, which may accelerate disc degeneration elsewhere in the neck.

#### Faculty of Medicine Strengthens Partnership with Macau's Medical Sector

To enhance academic exchange between medical personnel in Hong Kong and Macau and to promote professional medical training in Macau, the CUHK-Macao Academic Exchange Symposium was held at the Macau Tower Convention and Entertainment Centre on 8th January 2005. The symposium was organized by the CUHK Faculty of Medicine and the Dr. Stanley Ho Medical Development Foundation, with Seng Heng Bank Ltd., Hospital Central Conde de S. Januario, and Kiang Wu Hospital in Macau as coorganizers. The speakers of the symposium were teachers from the Department of Medicine and Therapeutics and doctors from the two hospitals in Macau.

The event concurred with the inauguration ceremony and gala dinner of the Dr. Stanley Ho Medical Development Foundation, held also at the Macau Tower Convention and Entertainment Centre. Established with a donation of MOP10 million from Seng Heng Bank, the objective of the foundation is to upgrade medical services in Macau by sponsoring doctors to receive professional and continuing medical education at the Faculty of Medicine of the Chinese University.

#### **New Institute**

#### Li Ka Shing Institute of Health Sciences

The Li Ka Shing Foundation has donated HK\$60 million to the University to establish an institute of health sciences and to fund clinical studies and health science research at the Faculty of Medicine.

The Li Ka Shing Institute of Health Sciences will devote its research effort mainly to areas related to the health of individuals, with particular emphasis on sickness prevention, clinical sciences and regenerative medicine. Research foci will include early detection of severe diseases such as cancers, genetic diseases, common urban health problems and infectious diseases, innovative therapeutics and disease prevention through understanding of genetic susceptibility. The institute will seek multi-disciplinary collaboration with private and public partners in research projects related to personal health and health education.

The institute will be headed by Prof. Fok Tai-fai, dean of the Faculty of Medicine, and will be housed in a new 12storey building at the Prince of Wales Hospital. The building is scheduled for completion in the fourth quarter of 2006. The new building will be named after Dr. Li Ka Shing in recognition of his contribution.



An artist's impression of the Li Ka Shing Medical Sciences Building which will house the Li Ka Shing Institute of Health Sciences upon completion in 2006

#### CUHK's First Course on Bone Anchored Hearing Aid

The Division of Otorhinolaryngology of the Department of Surgery and the Institute of Human Communicative Research of the University jointly organized the University's inaugural Bone Anchored Hearing Aid (BAHA) Course on 30th April 2005. The course covered the repertoire of osseointegration concepts, surgical techniques, as well as potential complications and management. The course was sponsored by Entific Medical Systems SE.

Besides attending lectures, the 28 participants had the chance to learn first-hand about the unique BAHA experiences of four very different clients.



There was also a workshop wherein participants learnt how to elegantly perform BAHA surgery on freshly prepared pig's skulls.



# Exhibitions

#### **Art Museum Exhibitions**

 Shimmering Colours: Monochromes of the Yuan to Qing Periods — The Zhuyuetang Collection is held from 5th March to September 2005 at the East-wing Gallery.

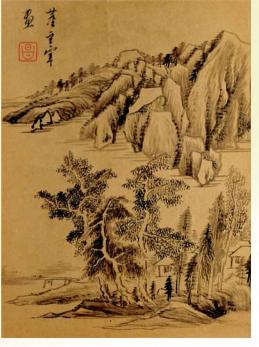
This exhibition features some 150 items of monochrome ware produced in Jingdezhen in Jiangxi Province, dating from the Yuan to the Qing dynasties (14th–19th centuries). The exhibits demonstrate the evolution in firing technique and the development of glaze colours in monochrome ware since the 14th century.

All the exhibits are selected from the renowned Zhuyuetang collection of Mr. and Mrs. Richard Kan. The great number of items encompassing all varieties of monochromatic glaze colours makes this collection one of the most important in the world for reference purposes.

#### • Lofty Mountains: Landscape Paintings from the Art Museum

**Collection** ran from 3rd March to 8th May 2005 at the West-wing Gallery. This was an exhibition of some 80 landscape paintings dating from the Ming dynasty to the modern era (14th–20th centuries), a period when distinctive styles emerged as artists explored the art of landscape painting. The exhibits are selected from the Art Museum collection. They include acquisitions such as those from the former Banyuan collection and generous gifts from the Bei Shan Tang Foundation.





## Exhibition of First Chinese Nobel Laureate in Literature

The University Library System (ULS) hosted 'Exhibition of Gao Xingjian: Sources, Literature and Drama' in commemoration of the kind donation of part of his private collection to the ULS by Dr. Gao Xingjian, Nobel laureate in literature 2000. The exhibition, which ran from 11th to 15th December 2004, featured manuscripts, paintings, photographs, posters, books, and Dr. Gao's many other personal belongings.

The ULS began systematically collecting research materials on the study of Dr. Gao in 2000. Dr. Gao's personal donation has greatly consolidated the foundations of the collection.



(From left) Prof. Gilbert Fong, chairman of the Department of Translation, Prof. Liu Pak-wai, pro-vice-chancellor, and Dr. Colin Storey, University librarian, officiating at the opening ceremony

#### Graduation Exhibition of the Department of Fine Arts



The graduation exhibition of the Department of Fine Arts took place from 14th May to 26th June in the West-wing gallery of the Art Museum. On display were Chinese paintings, Western paintings, and works of mixed media.

The title of the exhibition 'The Play After Tomorrow' augurs well for the future of the 31 budding artists.





## Conferences/Workshops/Seminars

#### **October to December 2004**

- Conference on Regional Environmental Quality Change and Environmental Security in China, 22nd to 26th October, jointly organized by the University's Centre for Environmental Policy and Resource Management, the College of Environment, Peking University, and the Geographical Society of China;
- Seminar on Operations and Supervision of Treasury Markets for Senior Officials, 25th October, hosted by the Asia-Pacific Institute of Business, co-organized by the Hong Kong Monetary Authority and Treasury Markets Forum;
- Eighth Executive Development Programme: International Capital Market and Its Development, 26th October to 3rd November, jointly organized by Asia-Pacific Institute of Business and China Unicom (Hong Kong) Ltd.;
- Biannual Scientific Meeting of the Pacific Rim College of Psychiatrists 'Innovation and Development in Mental Health in the Pacific Rim', 28th to 31st October, organized by the Department of Psychiatry;
- Tenth Annual Scientific Symposium of the Hong Kong Cancer Institute and the Second Pan Pacific Lung Cancer Conference, 6th and 7th November, jointly organized by Hong Kong Cancer Institute and University of California, San Francisco;
- Third Asia Pacific Conference on Evidencebased Medicine, 26th to 28th November, jointly organized by the Chinese Cochrane Centre (Hong Kong branch), The Chinese University of Hong Kong, the Clinical Effectiveness Unit, Hospital Authority, Oxford Centre for Evidence-based Medicine, University of Oxford, and Peking University

Centre for Evidence-based Medicine, Peking University;

- Translation Software: The State of the Art, 4th December, organized by the Department of Translation;
- Brain 2004, the Second Asia Pacific Multidisciplinary Meeting for Nervous System Diseases, 10th and 11th December, jointly organized by the Department of Anatomical and Cellular Pathology; the Division of Neurology, Department of Medicine and Therapeutics; Division of Neurosurgery, Department of Surgery; the Department of Diagnostic Radiology and Organ Imaging; and the Department of Clinical Oncology;
- Airport Privatization and Deregulation: Theory and Empirical Evidence, 14th December, organized by the Aviation Policy and Research Centre;
- The Third International Congress of Chinese Mathematicians, 17th to 22nd December, jointly organized by the Institute of Mathematical Sciences and the Department of Mathematics.

#### January to March 2005

- The Clinical Research Committee Training Workshop and the Clinical Investigator Training Workshop, 21st and 22nd January, jointly organized by the Centre for Clinical Trials of the Faculty of Medicine and the Hospital Authority;
- The International Conference on Corporate Governance Issues in China and Asia, 11th to 13th March, jointly organized by the University's Centre for Institutions and Governance and the School of Accountancy, and the Shanghai University of Finance and Economics.



#### Lectures

#### Wei Lun Lectures

- Prof. Gordon Richardson, KPMG Professor of Accounting, the Joseph L. Rotman School of Management, University of Toronto, delivered a public lecture entitled 'Review of the Academic Accounting Literature Linking Corporate Governance to Aggressive External Reporting Behaviour' on 7th December 2004.
- Prof. Jaap Valk, professor of radiology and neuroradiology of Free University Hospital, Amsterdam, delivered a lecture entitled 'Magnetic Resonance in Dementia' on 10th December 2004.
- Prof. Thomas M. Scanlon, Jr., Alford Professor of Natural Religion, Moral Philosophy and Civil Polity, Harvard University, delivered a public lecture entitled 'When Does Equality Matter?' on 14th March 2005.

#### **Other Lectures**

- Prof. Christopher Cullen, director of the Needham Research Institute of the UK, delivered a public lecture on 'Building Crosscultural Bridges Through Translation: The Case of Mathematics' in his capacity as Wilson T.S. Wang — New Method College Visiting Professor in Language Education on 17th November 2004.
- The Chinese University Press held a lecture entitled 'Gao Xingjian: Archive, Literature, and Theatre' on 11th December 2004. Speakers included Prof. Gilbert Fong of the Department of Translation, Prof. Tam Kwok-kan of the Department of English, Dr. Colin Storey, the University Librarian, and Mr. Jim Chim, associate artistic director of Theatre Ensemble.
- Former US Secretary of Defence Dr. William J. Perry delivered a lecture on 'Technology and Globalization' on 14th January 2005.

- Prof. Andrew Yao Chi-chih, distinguished professor-at-large of the University, delivered a lecture on 'Future Challenges of Computer Science' on 25th January 2005.
- Prof. Amartya Kumar Sen, Nobel laureate in economic sciences 1998, and Prof. David J. Gross, Nobel laureate in physics 2004, delivered lectures entitled 'Global Causes of Violence' and 'The Coming Revolutions in Fundamental Physics' on 18th February 2005 respectively.
- Mr. James Keith, Consul General of the United States of America in Hong Kong, give a lecture titled 'The WTO and Beyond: Building on Hong Kong's Strengths' on 7th March 2005.
- Prof. Joseph E. Stiglitz, Nobel laureate in economic sciences 2001, gave a lecture entitled 'China and the Global Economy: Challenges, Opportunities, Responsibilities' on 16th March 2005.

## Obituaries

- The University records with deep sadness the passing away of Prof. Joseph S.C. Fu, former director of studies in chemistry and dean of the Faculty of Science, on 11th March 2005 in New Jersey, USA. He was 79.
- Mrs. Pamela Lee, former senior sublibrarian of the University Library System, passed away on 25th March 2005. Mrs. Lee first joined the Chinese University in 1982 and retired in 2001.



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