CUHK Acquires High Energy Accelerator for Materials Research

Owners of antiques can now have their artefacts analysed at the University without fear of damage. The Materials Technology Research Centre has recently acquired a tandem accelerator for ion beam analysis, and set up the Accelerator Laboratory to facilitate teaching and research.

Ion beam analysis uses light ions, usually hydrogen and helium, for material analysis. The machine can perform a wide range of analytical techniques which are in high demand among local academic institutions. Researchers have already begun queueing for analysis services. The techniques are also expected to have a very high market value since they can be used to study art objects and antiques without causing the slightest damage to the objects.

The only one of its kind in Hong Kong and Southern China, the machine can also be used to fabricate new materials and structure by high energy ion implantation for microelectronic and optoelectronic devices. Its acquisition has given rise to numerous concrete plans for research in this field.

The machine was purchased with funding from the Ho Sin Hang Education Endowment Fund, the CUHK Special Equipment Grant, the Department of Electronic Engineering, and the Interinstitutional Micro-electronics Consortium (MIC). MIC was formed in 1994 by the electrical and electronic engineering departments of five local universities: City University, HKU, HKUST, Polytechnic University, and CUHK. It was granted central allocation funding in 1994 by the Research Grants Council, of which HK$6 million was earmarked for purchasing the machine to support a large number of collaborative projects.

Distinguished Materials Scientist Visits Shaw

Prof. James Mayer, one of the world's foremost materials scientists, is the 1996-97 Sir Run Run Shaw Distinguished Visiting Scholar to Shaw College. In a public lecture delivered on 13th January entitled 'Revelations Beneath the Surface: The Science of Art', Prof. Mayer discussed new techniques using infrared or X-rays, and ion and neutron beams to analyse the material composition of works of art, such as paintings and other artefacts.

Prof. Mayer has had an impressive career spanning the three disciplines of physics, materials science, and engineering. He was elected a Fellow of the American Physical Society in the early 70s for his development of semiconductor nuclear particle detectors, and to the Fellowship of the Institute of Electrical and Electronic Engineering for his achievements in the daping of semiconductors by ion implantation. The latter technique, which triggered the microelectronics revolution, is essential to the manufacture of integrated circuits. Prof. Mayer was also responsible for establishing the Rutherford Backscattering Spectrometry, which uses ion beams to analyse solids.

Fine Arts 40th Anniversary Faculty Show

To celebrate its 40th anniversary, the University’s Department of Fine Arts has mounted an exhibition of the works of its studio course teachers at the west-wing galleries of the Art Museum. The opening ceremony of the exhibition was held on 31st January.

Exhibits include oil and acrylic paintings, calligraphy, seal-engraving, printmaking, sculpture, ceramics, photography, and mixed media pieces. Ten teachers are involved: Cheung Yee, Lee Yun-woon, Cheng Ming, Lui Chung-kwong, Chan Yuk-keung, Tong Kam-tang, Chan Tak-kei, Chung Tai-fu, Caroline Cheng, and Wong Kai-yu. It is hoped that the exhibition will demonstrate the balanced and comprehensive curriculum of the department’s studio courses, and enhance communication between the Department and the public.

The exhibition is coorganized by the Art Museum, and will be on until 9th March.

Sports and Child Health Examined at Sports Medicine Congress

The World Health Organisation (WHO) and the International Federation of Sports Medicine (FIMS) jointly announced a position statement on sports and children at the 1997 International Sports Medicine Congress held at the Hong Kong Sports Institute on 11th and 12th January. Regarding as the most important sports medicine forum in Asia, the two-day congress was coorganized by the Hong Kong Association of Sports Medicine and Sports Science, the Hong Kong Sports Institute, and the WHO Collaborating Centre for Sports Medicine and Health Promotion at the University.

The statement, read at the opening ceremony of the congress, stresses the joint responsibility of parents, trainers, sports institutions, and doctors to ensure the health and safety of children and adolescents when planning sport programmes. Over a hundred world-renowned sports medicine experts shared their experiences in sports and child health.

An exhibition of the latest health products and information on health care was held alongside, and there were demonstrations of proper exercises for children and adolescents.
Thirteen years ago, the then Chief Secretary Sir Philip Haddon-Cave officially opened the University's new MBA Town Centre at East Ocean Centre, Tsim Sha Tsui. On 21st February 1997, the Financial Secretary the Hon. Donald Tsang will officiate at the opening ceremony of the recently acquired extension to the Town Centre, with both the new and old premises integrated and completely renovated.

The Need for Expansion and Renovation

There was a crying need for additional space in recent years, to decently accommodate all the students for the Three-Year Part-Time and the Executive MBA Programmes at the Town Centre, particularly on Friday evenings when there are classes for both simultaneously. And, save for minor renovations to one classroom, nothing in the Town Centre had been changed ever since the University procured the premises in 1982.

When Prof. Japhet Law took over as the director of the MBA Programmes in September 1995, he immediately realized that something major would have to be done to make it into what people would expect of the best business school in Hong Kong. He surveyed many potential venues that could house the programmes, both in Central and in Kowloon, but somehow never considered them seriously. He laughingly attributes this to his 'Chinese' thinking: since the Town Centre was an auspicious venue wherein the programmes were doing very well, it would be unwise to give up good fung shui.

The Golden Opportunity to Buy

Then, as chance would have it, in April 1996 Prof. Law learnt that their next-door neighbour at the Town Centre wanted to sell the property. As he puts it, 'I was lucky enough to hear about it.' This seemed to be the ideal opportunity — to the 3,819 sq. ft. Room 308 of the East Ocean Centre could be added the adjacent 3,580 sq. ft. Room 307. And yet, things were not quite so simple, nor the timing ideal. Classes in the existing premises were to continue till the end of June, and the next term was to start in late August. Was there time enough to obtain the approval of the University, get the resources together, conclude the deal, have the design ready, and engage a suitable contractor? Could the project be initiated and completed in just four months?

A Gargantuan Mission

The University administration and the MBA Advisory Boards were extremely supportive, and Prof. Law, having his mind set on wanting to update the facilities, decided to go ahead with the project. 'If I see something right, I want to do it, and don’t mind working 25 hours a day,' he says.

The deal was struck in the beginning of May, and in the months that followed, everything else took a back seat — including a long-planned family holiday. In fact, as Prof. Law recalls, 1996 was the first vacation-less summer for him since he came of age. He hasn’t been able to take any time off for 15 months.

A 'Colourful' Enterprise

Much time and thought have been devoted to the planning for the now new-looking Town Centre. For instance, to generate an atmosphere that is more refreshing and convivial than most of the offices the students have just left behind, the four large classrooms have been done up in different colours. One is light grey, another pastel orange, the third pastel green, and the fourth white. The shapes and layout differ too, to add to their individuality, optimize space, and cater to a specific kind of class. The grey room has all tables on rollers, offering flexibility to arrange the class as need be, in different groups if group-work is required or in a traditional lecture style. The orange room is designed along the archetypal lecture room, to accommodate a larger number of students. 'If we had not been constrained by space, we probably wouldn’t have had one like this,' says Prof. Law. The green room has horseshoe-shaped seating, to enable maximum communication and eye-contact. The white room is semi-circular in shape and more intimate. These classrooms are built to meet the special needs of different classes.
Comfortable and Spacious

The emphasis is also on glass, for partitioning and paneling, so as to give the maximum impression of space. The reception table is also glass-topped, with an open shelf underneath to facilitate access to the pamphlets and brochures kept there. There is a selection of the most comfortable and easy-on-the-back chairs that can be adjusted to various angles. The aim was to look for the least expensive model that would suit a tired body, says the MBA Programmes director who suffers from back problems himself.

There are also six 'break-out' rooms (with 5-6 chairs each), and these serve three purposes — as offices for the instructors, as computer rooms, and for group discussions and case studies. And of course, there is a conference room that can also stand in for a seminar room. Custom-made 'break-up' tables here make it multi-functional too.

The entire centre is linked by a computer network. Each classroom has a computer at the podium to help the instructor. Prof. Law would like to see this happening in the faculty classrooms on campus too, for the BBA and the Two-Year MBA students.

Money Well Spent

Generous donations had made the purchase of the original MBA Town Centre possible. Who funded this HK$26 million purchase-cum-renovation project? 'The MBA Programmes and the endowment fund, the EMBA Programme, and the BA Faculty,' Prof. Law replies. 'This was an essential, high-priority need. Every penny was deserving spent.'

The project has made possible a 90 per cent increase in space, and a corresponding 50 per cent increase in the Three-Year Part-Time Programme intake, from 60 students to 90 as of September 1996. The pressure over the years to increase the intake is, according to Prof. Law, a testimony to the demand for the University's quality programme, attributable in a large measure to the dedication and commitment of the highly professional faculty staff.

Will the expansion of the premises have any direct bearing on the quality of the Programmes per se? 'Yes, definitely so,' says Prof. Law. 'Following the increase in the intake, the class has been split up into two groups of 45 each. So, we have actually shrunk the class size from 60 to 45. Small classes are very important for MBA students, who need to interact with and learn from one another, and for whom the instructor often plays the role of facilitator and moderator instead of just the lecturer. 30, or better still, 25, would be an ideal size.'

Has there been any encouraging feedback from users of the new facilities? Indeed yes. Prof. Law has been down to speak with the students after classes, and finds all the hard work to have been worthwhile when he listens to appreciative staff and students.

Lots Ahead

'The project is a substantial investment in resources beyond only money, and reflects the commitment of the Faculty and the University to MBA education in Hong Kong,' summarizes Prof. Law. 'Our focus now is to increase the utilization of the facilities. We will explore the business and training needs of the community, and how the centre can accommodate them.'

And, with the 'hardware' in place, the 'software' is the next target. 'Having optimally utilized the space we have, we cannot accommodate any more student numbers in the near future,' says Prof. Law.

We are hoping instead to add more dimensions to our existing part-time programmes, like student-exchanges with our overseas counterparts. What is also being emphasized is greater interaction between our full-time, part-time, and executive MBA programmes in their various activities — to achieve synergy between the Programmes.' Prof. Law is of the opinion that, no matter which programme they attend, at the end of the day the students are all going to be CU MBA alumni and follow businessmen in Hong Kong, and hence would benefit from knowing one another.
In Memory of Lord Todd of Trumpington

Lord Todd of Trumpington was a Nobel laureate in chemistry, an educationalist, and a staunch supporter of research in local institutions of higher learning. His wealth of experience and wisdom will be long remembered by his fellow Council members, as well as other members of the University.

The University records with deep sadness the passing away on 10th January 1997 of Lord Todd of Trumpington, a Nobel laureate in chemistry, past president of the Royal Society of the United Kingdom, a member of the University of Cambridge’s Academic Advisory Board on Natural Sciences. He became a member of the University of Cambridge’s Academic Advisory Board on Natural Sciences in 1977 when he served as chairman of the University of Cambridge’s Academic Advisory Board on Natural Sciences.

Lord Todd’s association with the University began in 1977 when he served as chairman of the University of Cambridge’s Academic Advisory Board on Natural Sciences. He became a member of the University of Cambridge’s Academic Advisory Board on Natural Sciences in 1977 when he served as chairman of the University of Cambridge’s Academic Advisory Board on Natural Sciences.

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中大多個部門展示最新科技

本校多名部門上月六日至九日參加由工業署主辦之「香港科技展覽九七」，展出最新的科研成果，以及它們在生產、工商業及研究之用途。

是次參展之單位包括地理、生物、生物化學、物理、化學、矯形外科及手術、職業治療、護理、臨床科學、新聞學、電腦科學與工程、電子工程、系統工程及工程管理等學系，以及中醫研究、物理治療、過程工程研究所，和電子通信及資訊技術協會；展出之產品或資料以生物、電子、資訊及金融科技為主。

香港科技展覽九七是香港科技週九七活動之一，也是香港首次由本地個體主辦的科技展覽，目的是展出本地科技成就和最新進展，並闡述本地產業如何協助香港各業日趨科技化。展覽範疇涵蓋電子、塑膠、金屬、紡織及製衣、生物科技、資訊科技與環保科技等，包括本地開發或應用於本地生產工序的革新產品和技術。

中藥研究中心以多部儀器及錄像帶介紹檢測中葯品質和辨認藥材真僞的方法，例如怎樣辨別花旗參茶之真假，或如何分析牛黃解毒片的砷含量。

資訊網絡研究所設計的視像自選服務（Video On Demand）之優點是可應用於任何區域網絡。數據伺服器一經入網後，可供多名客戶同時存取。

計算機科學與工程學系的視覺影像處理實驗室去年十一月編寫出全新的影像處理軟件——Montage。圓像資料經儲存後，用戶只要輸入某項內容如顏色、物料、圖案或紋理，電腦即會迅速搜尋及顯示所有相關圖像。該軟件可應用於製衣、布匹、玩具、家具、塑膠或與圖像有關的行業。

地理系設計的投資環境資料庫儲存了有關投資的資料，包括政府政策及投資條件、經濟發展趨勢、人口動態、旅遊數據、地圖、地圖、地圖等，可由多種電腦程序顯示。投資者可隨時從電腦網絡取用該等資料，釐訂投資策略。解說員手握的「個人電子導航器」裝有裝有新開發的電子地圖技術，駕駛者只要把所在位置及目的地輸入導航器，即可找出最快捷的路徑。此技術也可應用於展覽場館攤位指引及門票快速發放系統。

這項虛擬工作台的特點是效率高且精確，三維立體影像逼真；如配以先進的「科學可視化」和電腦圖形技術，更可廣泛應用於科學數據的交互探查、醫學手術模擬和設計、三維電腦輔助設計，以及虛擬現實和電動器的製作。
訊息工程學系的無線多媒體實驗室致力開發住宅綜合業務系統。該系統可以無線操作形式管理及控制屋內的家庭電器及資訊設施，像啓動警報系統，控制冷氣機、電腦、電話、傳真機的開關等。

藝術系成立四十周年，時與文物館合辦「香港中文大學藝術系四十年系慶教師作品展」，及博士論文展。該系展覽除約三十位教學及系內經理出任展覽委員會委員，並由校長、系主任及系內博導選出的參展教師作品外，又展出藝術系學生的創作。

醫學院之傷殘兒童坐姿綜合診所及國泰愛心兒童輪椅庫以圓文介紹其服務和神經肌肉病患兒童的狀況，並展出特別為病童設計的輪椅。

物理系研究生向參觀者介紹磁性無損探測技術，並展示儀器及設計。該技術在測試時不會損毁物料，且所需儀器輕巧，方便攜帶。

矯形外科及創傷學系展示骨科手術常用的固定器及人造關節。

計算機科學與工程學系的智能系統實驗室設計了「分布式環境中智能實時控制及監察技術」，並利用數碼火車模型展示該技術能因應環境的變化，如火車出軌，發出實時指令，控制鐵路網上的火車運行。

運動與兒童國際會議

香港中文大學世界衛生組織運動學和促進健康中心上月十一至十二日與香港運動醫學及運動科學學會、香港體育學院合辦「運動與兒童」國際會議。逾百位世界知名運動醫學專家雲集體院，交流兒童健康與運動的研究成果和經驗。本港大學曾對比研究，發現國內兒童由於有更多機會和需要接觸康體活動，故體質比香港兒童優勝。

世界衛生組織和國際運動醫學學會在開幕禮發表運動與兒童健康的宣言，呼籲家長、教師、醫療機構和醫生一起努力，確保兒童身心健康。世界衛生組織常任理事會主席表示，次次活動旨在呼籲巧行動計劃，又希望有關計劃能成為國際運動醫學會議的議題。

會議期間，大會設科技展覽，展出最新的體育健康產品和資料，又示範兩套符合香港居住環境的熱身方法和運動。

《明德新民：聯合書院四十年》

精裝本，一百七十頁，一百八十港元。

大學同人在富爾敦樓大學書店購買該書，可獲八折優待。
斥巨資購串列式加速器
促进香港材料科技研究

材料科技研究中心最近斥資八百四十萬港元購置一台串列式加速器，促進香港的材料研究。

該中心為此特別設加速器實驗室，並於上月九日舉行開幕典禮，由工程學院院長黃昌教授及國際著名固體物理學家Prof. James Mayer主持。

中心主任魏爾遜教授表示，該加速器在華南獨一無二。加速器實驗室除增強本校的教學實力外，也可服務其他大學，協助開展材料研究。

串列式加速器可用於各種離子束分析技術，包括盧瑟福射散光譜、離子溝道效應分析、核反應分析、磁控管射頻發射、彈性壓電性分析等。這些技術可用以探究半導體器件失效的原因，並開拓物料分析和材料改性的研究。

另外，材料科技研究中心計劃利用該加速器，以高能離子注入術，製造微電子學和光學方面的新材料與新結構。中大也計劃利用該加速器和教師在光學及光電子器件製造的專長與經驗，設計及製造各種光學二極管、光電導及光纖放大器等。

該串列式加速器由微電子學聯合體、何善衡敎育基金會，以及本校的特殊設備基金和電子工程學系基金合資購買。微電子學聯合體由本校、港大、城大、理大和科大的電子和電機工程學系組成，於一九九四年取得香港研究資助局中央撥款，其中六百萬港元指定用作購買串列式加速器。

著名固體物理學家
談藝術科學

Prof. James Mayer上月到訪逸夫書院，出任一九九六至九七年度邵逸夫爵士傑出訪問學人，主持講座和參加逸夫書院院慶活動。

Prof. Mayer為國際首屈一指的材料物理學家，成就卓著。在六、七十年代先後開創離子注入法與「盧瑟福射散光譜測定法」技術，前者引發微電子學革命，而且成為製造集成電路的基本方法；後者用途廣泛，目前甚至應用於研究藝術作品的結構。八十年代初，他在康奈爾大學成立離子束實驗室，研究範圍擴展至半導體激光製造過程及薄膜科學，其後在亞利桑那州立大學成立材料科學實驗室，硏究離子束技術。

Prof. Mayer是物理、材料學和工程學的跨科巨擘，曾獲得多個榮譽學位及獎狀。他對視覺藝術興趣濃厚，除進行科學研究外，更熱心敎學及推廣科學敎育。Prof. Mayer—月十三日在逸夫書院大講堂主持公開講座，以「表層以下的啓示：藝術的科學」為題，介紹以科學技術分析顏料色素和藝術媒體的硏究。這種技術有助了解藝術作品的結構，很多美術館和博物館均已採用。

逾半家長有一般虐兒行行為

心理學系鄧素琴敎授上月發表其「香港家庭暴力調查」內有關虐兒的硏究結果，顯示約半數家長有一般虐兒行為。

調查在香港亞太研究所以電腦隨機抽樣，向全港家庭進行電話訪問。結果顯示，百分之五十三被訪者在過去一年有一般虐兒行為，有嚴重虐兒行行為者為百分之四十六；以性別、年齡組別和子女人數作比較，受虐者多為男孩、三至六歲之兒童，和獨生子女。家長的敎育水平、收入及婚姻狀況與虐兒行行為無顯著關係。

調查所指的「一般虐兒行行為」包括向子女摔東西、推撞或用力捉住子女、掌摑，或打子女屁股；「嚴重虐兒行行為」為拳打、腳踢、用物件擊打、毆打、以利器威脅或傷害子女。

調查由香港研究資助局撥款資助，於一九九五年十一月訪問了一千零一十個住戶，他們最少與一名十六歲或以下之子女同住，受訪者男女比例約為一比二。在五千九百五十六名男童和四百五十四名女童年齡由一個月至十六歲不等，其中二百九十七名為獨生子女。

鄧敎授表示，是次調查旨在探討父母對子女身體使用暴力的情況及有關之文化、家庭環境及個人因素，故調查範圍不包括心理或性虐待，和家庭以外的兒童被虐情況。調查結果有助日後制訂相關的預防及服務政策。「香港家庭暴力調查」另一部分是關於虐妻，旨在了解個人、家庭及文化因素與虐兒、虐妻行行為的關係。

中學教師進修課程研討會

香港敎育硏究所上月十八日假王福元樓舉辦兩個研討會。

「多元化師資培訓的檢討」研討會由香港浸會大學敎育學系講座敎授兼兒童發展硏究中心主任劉誠敎授主持，講者有敎育署副署長關志輝先生、本校敎育行政與政策學系陳若敏敎授及東華三院黃笏南中學校長韓孝述先生。

「新科技對學校行政及敎學的影響」研討會由敎育署目標為本課程敎師培訓組冼定富先生主持，講者有順利天主敎中學校長康文海先生、中大課程與敎育行政學系鍾財文敎授及嶺南學院敎育科技中心主任任伯江博士。