



Newsletter of Science Society
September, 2012 二零一二年九月

**The Piloting Scheme for Secondary Schools — HKUST Dual Program
2011-2012 (Level 1 & 2)**

(Lam Ho Lim, 5D, 2012-2013)

Science is a powerful wisdom that can break the mysterious shackles in our minds! I was honored and grateful to Mr. Chu, Mr. Lau for providing me the chance to take part in the Dual Program launched by the Hong Kong University of Science & Technology from 2011 to 2012. I studied Life Science at year 1 level there, which is about human organization, genetics and biotechnology. Although the content was rather complicated, I did enjoy coping with the challenge that resolved my doubts and inspired me new views towards life. The knowledge I learnt is not only in favor of my academic performance, but also my future career.



After studying the course in the University, I have made more friends with great passion for Science from various schools competing with one another and aiming high. Moreover, I have learnt lots of transferable skills, like leadership, team spirit, communication and interpersonal skills through doing presentations and experiments with my group members. To be honest, I really like the open learning style of the university. Students are welcome to ask professors questions in class or online and are encouraged to make hypotheses to explain some scientific researches or phenomena with no definite answer. Their thinking can certainly break through the framework of textbooks. Furthermore, I was impressed by what professor Leung said---“The world is full of exceptions.” Therefore, we should ask ourselves “Why?”, “If & if not”, “Sufficient & necessary” to develop the critical and logical thinking, but not just recite the content when studying Science.



On the whole, the course can indeed broaden my horizon and cultivate my 'cerebration' to explore Science. Whatever students' level, with interest in science, intellectual curiosity and determination, I believe they can get a huge sense of achievement and satisfaction from joining such courses and resolving their doubts!

Science Academy for Young Talent (Faculty of Science, CUHK) (Wong Ka Hei, 6A, 2012-2013)

During summer vacation, I've attended a summer course called "Molecular Biology and Biotechnology: Introduction", held by Biochemistry department of CUHK. I must hasten to acknowledge that it is incredibly rewarding, no matter in the prospect of studying or social life.

In the course, I've manipulated some advanced equipments that are only available in university. Using those equipments, I've performed some experiments that I won't have a chance to perform in secondary school. For instance, Polymerase Chain Reaction (i.e. amplifying DNA), Gel Electrophoresis (i.e. separating DNA fragments) and transformation (i.e. "inserting" a desired gene fragment into the genetic material of a population of bacteria). Actually, these experiments are not suitable for secondary students to perform as the required chemicals and equipments are too expensive and the operations are somehow quite dangerous. However, the experiment indeed can deepen my understanding about recombinant DNA technology which is one of the topic in Biology syllabus. That's why I said this course in extremely rewarding.



Apart from the above, in the course, I've had made several invaluable friends having common ambition with me, which is being scientist. It's fortunate for me to meet them in my life. Although we come from different schools (one of them even speaks English but not Cantonese), we are compatible just because we have common interest.

All in all, I really appreciate Mr Lau for recommending me to join the course. If I hadn't attend this course, I would have lost the chance of trying advanced experiments and making some amazing friends.

Science Society 2012-2013:

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Website: <http://aerodrive.ccchwc.edu.hk/~lck/science/spt1213/spt1213.htm>

專題講座 免費活動，即場入座，座位先到先得。

9月16日 (日)	下午 3:00-4:30	新高中學制的天文教育	太空館 演講廳	高子翔先生 (星匯點委員) 蔡錦滔先生 (星匯點委員)
新高中學制於 2009 年正式落實，天文學被列入高中物理科其中一個選修單元，成為正規中學課程的其中一部分。究竟新一代中學生會學到甚麼天文知識呢？本講座找來兩位中學物理科老師為大家介紹。				
9月22日 (六)	下午 2:30-4:30	從心理行為徵兆看認知障礙症	科學館 演講廳	林翠華教授(中文大學 精神科學系系主任)
認知能力包括記憶力、專注力、分析能力、語言能力、判斷力及感知能力等。認知能力的水平對日常生活不同的範疇有著重要的影響。在長者中，認知能力的退化更是意外跌倒的重要風險因素之一。頗多研究發現體能活動對認知能力有著正面的功效。在是次講座中，我們會探討認知能力隨著年齡增長所產生的變化，及體能活動如何增進不同群組人士（兒童、成人、長者、有發展障礙的兒童及慢性病患者）的認知能力。				
9月29日 (六)	下午 2:30 -3:15	魚類「大搬遷」	科學館 演講廳	鄧耀明先生（水族部助 理館長(海洋動物展覽)
香港海洋公園鎮園之寶之一的「海洋奇觀」，總容量逾五百二十四萬公升，容量比較原來的「海洋館」大一倍。在兼顧新館工程及水質控制之餘，還要確保如何把山上舊館二千多尾魚兒萬無一失地搬入山下的海濱樂園，過程極具挑戰性。箇中經驗，為你分享。				
9月29日 (六)	下午 3:15 -4:00	海洋飼育 - 南洋角鵬	科學館 演講廳	陸文豪先生（水族部執 行經理(海洋動物展覽)
南洋角鵬(<i>Manta alfredi</i>)，是香港海洋公園由日本沖繩引進的新品種鮪魚，這品種鮪魚的體型闊度可達五米，是鮪魚中體型最大的品種之一。由於角鵬是濾食性魚類，餵飼有別於館內其他動物，飼養管理必須配合餵飼訓練。遠在日本沖繩時已開始由當地專家聯同海洋公園水族員一起進行餵飼訓練，運抵香港海洋公園後，需在後勤檢疫池及海洋奇觀主池繼續進行餵飼訓練；是次講座將會介紹南洋角鵬及餵飼訓練過程。				

科學天文電影

香港科學館演講廳 (英語旁白, 配以中文字幕) 免費活動, 即場入座, 座位先到先得

電影名稱	日期	時間
科特斯海	9.9.2012 (星期日)	下午 2:15 - 3:15 及 3:45 - 4:45
1960年, 著名海洋攝影家賈克柯斯托, 把科特斯海描述成海洋中的水族館。在這裡可以找到地球上三份之一的海洋哺乳類動物物種及超過八百物種的魚類。但這片水域正處於不斷的變化中, 商業捕魚、旅遊和工業正在增加, 這片豐饒的海洋現已陷入瀕危的狀況。探險家保羅羅斯, 環保專家菲利普庫斯托, 海洋考古學家露西布魯博士及海洋生物學家與海洋學家圖尼馬托, 將帶領觀眾深入科特斯海揭開當中變幻莫測的奧秘。		
儒艮: 尋找最後的美人魚	23.9.2012 (星期日)	下午 2:15 - 3:15 及 3:45 - 4:45
儒艮是海牛目動物中唯一仍然生存於印度洋與太平洋地區的物種。人類對儒艮認識不多, 但儒艮現正面臨絕種的威脅。人類持續的獵殺, 加上棲息地減少以及被困在漁網中溺斃, 這神秘的「美人魚」現在變成了瀕危物種。數千年來人類獵殺儒艮是因牠們全身都具有商業價值。托列斯海峽群島的漁民和島民以及澳洲昆士蘭的科學家正努力展開拯救行動, 為儒艮帶來一線生機。		
印尼沿海生態遊	30.9.2012 (星期日)	下午 2:15 - 3:15 及 3:45 - 4:45
印尼是個富饒多元化, 精彩繽紛的群島; 陸地與海洋, 人類與生物皆能和諧共處。海底世界也同樣壯麗, 每天都能發現新物種。佔地十七萬畝的印尼卡莫多國家公園, 這淺灣海峽是動植物的棲息地。主持人理查盧梭船長將帶領我們乘坐傳統的木帆船, 前往群島的最佳潛水點, 尋找大自然之母創造的傑作。		

香港太空館演講廳 (英語旁白, 配以中文字幕) 免費活動, 即場入座, 座位先到先得

時間與空間及接觸外星人	16.9.2012 (星期日)	下午 5 時至 6 時
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太空館天文活動 (粵語講解)

如天氣欠佳, 觀測活動會以室內活動代替

有興趣人士可於每次活動開始前, 於太空館地下大堂輪候參加, 費用全免。

活動名稱	日期	時間	地點
天文嘉年華	9月25日(星期二)	晚上7時至9時	何鴻燊天象廳、宇宙劇場及天台
神秘的星空, 帶給人無限的遐想, 正因如此它每每令人著迷。天空中閃爍的星體看似遙不可及, 原來也可以近在咫尺。香港太空館舉辦的「天文嘉年華」活動正好讓大家在鬧市中近距離接觸神秘的星空。你可以透過「星空巡禮」在模擬的星空中穿梭宇宙; 「魔幻行星」帶你認識太陽系八大行星的特色和面貌; 而「鏡中星空」則讓你親眼窺探月球、行星及其他天體的廬山真貌。			
天文快樂時光	9月19日(星期三)	晚上7時30分至9時	太空館天台
你有否想過在夜幕低垂時, 與三五知己在繁華鬧市中, 仍然可以仰觀天象, 享受觀星的樂趣? 香港太空館特別為未親嘗觀星樂的人士舉辦了一個名為「天文快樂時光」的觀星活動。在資深天文愛好者的引領下, 參加者可以在本館天台輕輕鬆鬆地去辨認市區中可見的天體, 享受一段快樂的時光。			

Video Show: 宇宙解碼 How the Universe Works

20-9-2012

4:15-5:00 p.m. @ Chem. Lab. (Room 512)