國立交通大學
National Chiao Tung University

出國報告（出國類別： ■ A 類、考察訪問
□ B 類、出國短期研究
□ C 類國際會議）

名稱：考察訪問美國麻省理工學院暨全球 開放式課程聯盟(OCWC)

服務機關：電子物理系

姓名職稱：李威儀　教授

前往國家：美國　麻省劍橋市　麻省理工學院

出國期間：20110/04/28~05/10

報告日期：2010/05/17

撰　寫　人	審核人	初　　閱	複　　閱
		學院院長 100. 7. 28 振益 (丙)	教授兼 副教務長 傅武雄 8/1 代

備註：出國報告書審核程序如下
一、 各學院教師A、B、C類及其他行政單位A類由單位主管，研究生由指導教授；中心計畫及學群A、B、C類由各中心計畫主持人。
二、 複閱：經費所屬之一級單位；中心計畫及學群A、B、C類由頂尖計畫執行長。

國立交通大學「發展國際一流大學及頂尖研究中心計畫」

A 類出國報告書

2011 年 05 月 17 日

報告人姓名	李威儀	申請單位	電子物理系	職稱	教授
		（學生請加註系級）		電話	03-5731773
出國目的/發表論文題目	考察訪問美國麻省理工學院暨全球開放式課程聯盟(OCWC)				
補助金額	110,971		經費來源（校內會計編號）	100W912	

報告內容：

一、參訪說明：

　　開放式課程(OpenCourseWare, OCW)是 1999 年美國麻省理工學院（MIT）提出的知識分享計畫。透過美國麻省理工學院從本身做起的行動力來擴展開放式課程的範圍和影響力，不但啟動了全球開放教育資源運動(Open Education Resources Movement)，更於 2001 年主導成立全球開放式課程聯盟(OpenCourseWare Consortium, OCWC)，目前全世界共有 45 個國家超過 260 個非營利組織與機構推動開放式課程。

　　認同美國麻省理工學院推動開放式課程理念，本校自 2006 年起推動本校開放式課程，亦於 2007 年成為首所加入全球開放式課程聯盟(OCWC)之大學。本校 2010 年開放式課程受惠者多達 130 萬人次，2011 年建置 104 門開放式課程，更持續將本校暨臺灣推動經驗與美國麻省理工學院(MIT)暨全球開放式課程聯盟(OCWC)交流，期吸取國外開放教育暨開放式課程之推動經驗，以積極建立本校國際形象與知名度，與全球開放式教育資源運動接軌。

二、參訪行程：

❑ 5 月 03-07 參加 2011 全球開放式課程聯盟年會(OCWC Global 2011) 與聯盟各校交流、討論更發表本校推動之成效。

　　全球開放式課程聯盟年會(OCWC Global 2011)除 Plenary/Keynote Speech 外，分成三個 session 進行，三個 session 的重點分別為 (1) Building OCW (2) Using OCW 及 (3) Sustaining OCW，四天會議的詳細議程如下表 。本人報告時間在五月五日下午 4:15~5:15，主要是介紹台灣高等教育界推動開放式課程的現況及成果，並藉此機會推銷我們製作的華語學習開放式課程，爭取國外的合作夥伴。

DAY 1 May 3rd

8:00am - 4:00pm	Registration
9:00am - 12:00	Copyright Workshop:　A Game to Help Educate Authors about Copyright and Licensing Sanchez, Botero
9:00am - 12:00	OERopoly Workshop: Learning about OER Communities, Collaboration and Contexts Connolly, Wilson, Makriyannis, De Liddo, Lane
9:00am - 12:00	Analytics Workshop: Understanding Users with Google Analytics, Martis, Wan
12:00- 1:00pm	reak (Lunch is not provided)
1:00pm - 4:00pm	Connexions Workshop: Building the World of Knowledge, Thierstein
1:00pm - 4:00pm	Accessibility Workshop,Caswell, Treviranus

DAY 2 May 4th

9:00am - 9:30am	Welcome　Hockfield

9:30am - 10:30am	Keynote O'Reilly	
10:30am - 11:00am	Break	
11:00am - 12:15pm	MIT Institutional Decision to do OpenCourseWare Abelson, Bacow, Brown, Miyagawa, Yue, Vest	
12:15pm - 1:30pm	Lunch - Break	
1:30pm - 2:45pm	Early OpenCourseWare Adopters Aranzadi, Fukuhara, Kanchanaraksa, Lee, Wang	
3:15pm - 5:15pm	Using Cloud Computing Tools to Objectively Analyze OCW Utilization Wan	
3:15pm - 5:15pm	Sharing the Wealth of the Nation Midgley, Rehak	
3:15pm - 5:15pm	Social Learning with OCW--Socialized Education Amplifies Connecting Knowledge Yamawaki	
3:15pm - 5:15pm	Resource Management System for Sharing OpenCourseWare in China Universities Han, Cheng	
3:15pm - 5:15pm	I.plot with Kyoto University OCW Tosa, Mino	
3:15pm - 5:15pm	Taking Care of Business: Sustainable Engagement with OCW and OER Casey, Turner, Davies, Follows, Webb-Ingal	
3:15pm - 5:15pm	Student-driven Content Creation for E-learning Entzinger, Morimura, Suzuki	
3:15pm - 5:15pm	A Comparison of Production Processes for OER Schuwer, Wilson, Lane, Counotte-Potman	
3:15pm - 5:15pm	From Open Courses to Open Research: OCW impact at Michigan State University Geith, Vignare, Guenther	
3:15pm - 5:15pm	OER Learning Design for Work Placed, Work Based and Distance Learning: Construction and Built Environment Perspective Thurairajah, Williams	
3:15pm - 5:15pm	Aprendizaje Abierto en Contextos Formales: Experiencias de Prácticas Abiertas en la Planificación Institucional Dominguez	
3:15pm - 5:15pm	Opening up the World's Academic Literature Gunn	
3:15pm - 5:15pm	SNOW: OER Platform for Localizing and Self-learning Shin	
3:15pm - 5:15pm	(How) can badges replace degrees? Schmidt	
3:15pm - 5:15pm	Frictionless Remixing: The Promise of Open CourseWare Thierstein	
3:15pm - 5:15pm	The Evolution of Community Based Collaborative Curriculum Creation in the Curriki Environment Pinto	
3:15pm - 5:15pm	Semi-automatic and Easy Creation of Learning Friendly OCW Video Content Shimada	

DAY 3 May 5th

9:00am - 9:30am	State of the OpenCourseWare Consortium Forward	
9:30am - 10:30am	Emerging OpenCourseWare Projects Diallo, Xanthopoylos, Indrajit	
10:30am - 11:00am	Break	
11:00am - 12:00	Open Educational Resources in an Open University: Toward the Sharing and Distribution of Granular Materials Yamada, Morimoto	
11:00am - 12:00	Current Report on JOCW: History, Current Status and Future Challenges Fukuhara	
11:00am - 12:00	Tokyo Tech OCW: a Challenge to Stretch the Concept of OpenCourseWare Akama, Mochizuki, Wakita, Majima	
11:00am - 12:00	The Past, Present, and Future of OCW Activity in Kyushu University Fujimura, Inoue	
11:00am - 12:00	Musings About OER: What are the uses? Where are we going? Casserly, Smith	
11:00am - 12:00	Planning the OER Landscape McAndrew, Makriyannis, Casserly, Vollmer	
11:00am - 12:00	MIT OpenCourseWare's Next Decade: Reaching a Billion Minds Carson, James	
11:00am - 12:00	OpenCourseWare as Prerequisite for Online Education van Valkenburg	
11:00am - 12:00	Sharing your Teaching Tips through OCW Yamazato	
11:00am - 12:00	How to optimize the use of available OCW resources? Fernández, Hernando	
12:00 - 1:00pm	Lunch and Sal Kahn Remote Presentation	
1:00pm - 1:15pm	Break	
1:15pm - 2:15pm	Five Years Growing with OpenCourseWare Martinez	
1:15pm - 2:15pm	Punto de Inicio en OCW: Pre-Ingeniería en la Universidad Politécnica de Madrid Arriaga, Casaravilla, Gómez, Masegosa	
1:15pm - 2:15pm	Innovative Experiences of Open Educational Resources towards academic knowledge mobilization: Latin-American Context Burgos, Ramirez	
1:15pm - 2:15pm	Openness in the Wasteland: How will changes in the English Higher Ed System affect OER Practice? Kernohan, MacNeill	
1:15pm - 2:15pm	Open Education Policy in Washington State Caswell	
1:15pm - 2:15pm	Open Courseware, Open Content, Open Practices, Open Learning: Where are the limits? Daniel, Uvalic-Trumbic, Kanwar	
1:15pm - 2:15pm	P2PU Mozilla School of Webcraft--The Future of Webdeveloper Training Schmidt	
1:15pm - 2:15pm	New Directions in Drinking Water Education Verberk	
1:15pm - 2:15pm	Ecosystem to Create BLOSSOMS Murray, Larson	
2:15pm - 2:45pm	Break	
2:45pm - 3:45pm	Past, Present, and Future of OCW @ Korea University Kim, Lee, Lee	
2:45pm - 3:45pm	Government Initiative to Promote OCW in HE Institutions Choi	
2:45pm - 3:45pm	Systemic Planning for the Open Education Innovation Kumar, Thanos	
2:45pm - 3:45pm	What Is the Next Step in the "Open Education" Movement? Huggins	
2:45pm - 3:45pm	Certification with OER: Teachers Without Borders Case Example & Additional Considerations Moriarty, Glogowski	
2:45pm - 3:45pm	Making OCW Resources Accessible in Developing Areas Dorman	

2:45pm - 3:45pm	Strategy for Increasing Access to OCW in Developing Nations Rowe
3:45pm - 4:15pm	Break
4:15pm - 5:15pm	Next Generation "Open" Learning Wang
4:15pm - 5:15pm	The UNESCO Chairs in Open Educational Resources: Objectives and Intended Activities McGreal, Mulder
4:15pm - 5:15pm	Building a sustainable OER: Step 1-Tailoring the Value for an Audience Lopez
4:15pm - 5:15pm	Analytics of OpenCourseWare Websites Fortuna, Grobelnik
4:15pm - 5:15pm	Developing and using OERs Collaboratively with 10 African Countries Bakary
4:15pm - 5:15pm	Formation of Open Education Clouds by Universities in Taiwan Lee

DAY 4 May 6th

8:00am - 9:00am	Sharing and Reusing Rich Media: Lessons from The Open University Lane, Law
8:00am - 9:00am	Video and Open CourseWare Kaufman
8:00am - 9:00am	Impact of iTunes U on OCW--a Case Study of UT OpenCourseWare Shigeta, Yamamoto, Yoshida, Aida
8:00am - 9:00am	Measuring our Impact: The Open.Michigan Initiative Rodgers
8:00am - 9:00am	Global Education and Open Course Library Sun, Caswell
8:00am - 9:00am	The Production of Open Courses as a Transformative Practice: A Case Study of the Chinese Top Level Courses Project Håklev
8:00am - 9:00am	Effective Institutional Open Practices: Local Capacity Building and Global Sharing across Worldwide Partnerships Lee, Hanss, Albright
9:00am - 9:30am	Creating OCW at the Escuela Virtual de Deportes de Coldeportes. Guerrero Alfonso
9:30am - 10:30am	Linked Data to Improve the OER Experience Piedra, Tovar, López, Chicaiza, Martinez
10:30am - 11:00am	Break
11:00am - 12:00	Foundation Panel Aranzadi, Casserly, Jarrett, Vuchic
11:00am - 12:00	Socializing OpenCourseWare with OpenStudy Ram, Ram, Sprague
11:00am - 12:00	Combining OCW, OER, Pedagogy, and Assessment to Help Teachers Help Students to Learn what the 21st Century Requires Pritchard
11:00am - 12:00	Student Attitudes Toward OpenCourseWare and Openness at an OpenCourseWare-producing Institution Kanchanaraksa, Gooding, Yager
11:00am - 12:00	Reviews of Current International OCW Surveys Hardin, Hodgkinson-Williams
11:00am - 12:00	What Do Teachers Want? Reusing OCW in the High School Classroom McMahon
11:00am - 12:00	pen Nottingham Stapleton, Beggan
11:00am - 12:00	Towards a Global Course Catalogue Whipkey
11:00am - 12:00	Transforming OpenCourseWare into Open Courseware Muramatsu
11:00am - 1:15	Lunch - Break
1:15pm - 2:15pm	Making OCW Indispensible: Getting Faculty Involved and Hooked Matkin, Cooperman
1:15pm - 2:15pm	Towards DIY OCW: A Sustainable Model for Producing OpenCourseWare at the Universidad Carlos III of Madrid, Spain Webster, Pardo
1:15pm - 2:15pm	How do I aggregate OERs? Let me count the ways... Robertson, Barker, Campbell
1:15pm - 2:15pm	Effective Approaches in Aggregating, Embedding, and Delivering Open Sources in College Student Instruction Liu
2:15pm - 6:15pm	參觀 Tufts University School of Medicine's newly renovated Sackler Center

三、參訪主要成果：

❑ 成功展示台灣在推動開放式課程上的成果，獲得其他國家代表的讚揚。

❑ 成功的與美國、日本、韓國、中國大陸、南美洲及歐洲地區交流推動開放式課程的經驗。

❑ 釋放出我國亟欲爭取主辦全球開放式課程聯盟會議 (OCWC Global 2013)的意願。

四、參加會議主要心得 ：

　　此次全球開放式課程聯盟年會配合慶祝麻省理工學院推動開放式課程十週年，因此在麻省理工學院主辦。總共有超過 250 位與會人員，主要是來自美國、中南美洲、日本、台灣、韓國、印度、英國及歐洲等二十幾個國家的各大學。會議中大家一致的認為開放式課程不僅僅對當地社會大眾的自主學習起了極大的作用，對各校的教學也確實造成相當正面的影響，各國政府應該更主動積極的在各大學推動開放式課程。同時與會各國代表也認為應該將此一經驗積極向其他較弱勢的國家推廣。大會中更熱烈的就如何維持及永續經營開放式課程進行了討論，但顯然尚有許多問題亟待具有創意的解決方案。不過在此次會議中，我們深深覺得開放教育不僅僅潛力極大，研究面向也相當的廣泛。在台灣我們應該邀請更多不同領域的學者(包括教育、資訊、法律、管理等專長的學者)共同積極參與。