

公務出國或赴大陸地區報告提要

出國或赴大陸地區報告名稱：「參加第82屆國際圖書館協會聯盟（IFLA）會議及參訪圖書館」	
含附件： ☒ 是 ☐ 否	
出國計畫主辦機關：臺北市立圖書館	
聯絡人：鄭翔 電話：02-27552823 # 2411	
出國人員姓名/服務機關/單位/職稱/電話 洪世昌/臺北市立圖書館/館長/ 02-27552823 # 2701	
出國類別： ☒ 1出席國際會議 ☐ 2表演 ☐ 3比賽 ☐ 4競技 ☐ 5洽展 ☐ 6海外檢測 ☐ 其他	
出國期間：105年8月13日至8月22日 報告日期：105年9月29日	出國地區：美國，俄亥俄州哥倫布
內容摘要： 2016年IFLA(International Federation of Library Associations and Institutions)國際圖書館協會聯盟年會於美國俄亥俄州哥倫布市(Columbus, Ohio)舉辦，本屆“世界圖書資訊大會(World Library and Information Congress, WLIC)”會議主題為「聯結・合作・社群」(Connections・Collaboration・Community)，聚焦各類型圖書館之間以及圖書館與其他機構、所在社區的聯結和合作。2016年計有來自137個國家大約3,200人出席會議，每年IFLA年會舉行時，亦同步舉行海報展，臺北市立圖書館為IFLA約1,500個會員機構中的一員，今年度計有2件海報入選參加海報展。 本年度參展2件海報主題一件為：《Multicultural Reading Services of Taipei Public Library 臺北市立圖書館多元文化閱讀服務》，介紹圖書館為臺北市的新移民所提供的各種母語閱讀以及文化交流服務。另一件為：《Green Library：Energy Self-Sufficient for the Solar Library 綠色圖書館：能源自給自足的太陽圖書館》，介紹臺北市立圖書館所轄太陽圖書館主動暨被動運用太陽能，達成電力自給自足，促進環境永續發展的創新案例。海報展期間，由本館洪世昌館長以英文進行海報解說，前來參觀的各國圖書資訊專業人員，對於臺北市立圖書館推動新移民多元文化服務，以及利用乾淨能源、落實節能減碳的做法，均覺得十分驚豔與肯定。藉由此次參展機會將臺北市對於公共圖書館事業的推展，有效在國際會議場合加以宣傳。 此外，出國人員更利用會議期間參訪俄亥俄州哥倫布大都會圖書館（Columbus Metropolitan Library）以及辛辛那提公共圖書館（Cincinnati Public Library），兩館開闊的讀者服務空間、彈性的圖書館桌椅傢俱運用、全自助的圖書流通服務機制、兒童閱覽室空間的色彩運用與活潑設計等，頗值得借鏡與學習。	



133

Green Library!

Energy self-sufficient for the Solar Library

TAIPEI PUBLIC LIBRARY



Solar Library is located in Youth Park, Taipei City, Taiwan. It was initiated in October 29, 2011 and managed by Taipei Public Library. The two-floor building is at the height of 10.5M and its building materials are integrated with the concepts of environmental protection, energy conservation and carbon reduction.



The first floor is the smart library without an assigned librarian. The technology of RFID is used for the security system and self check-out equipment. The users can enter and check out books by swiping their library cards. "Smart sensor makes check-out fast" and the efficiency of using library resources is also upgraded.



The insulation of the heat through roof, walls, doors and windows—the fire-resistant wood fiber board with great insulation effectively stops the influence of the outdoor heat on the indoor temperature. The argon-filled double-pane glass airight window supported with the coating technology lowers the effect of heat conduction and radiation, which is the feature of the energy-conserving architecture.



The second floor is the Energy Optimized House, including the exhibition section of words, pictures and objects, visual and audio section, and practical operation section. The management is through the cross-field cooperation with the professional organizations to promote the related knowledge on energy conservation together. In Solar Library, reading is combined with energy conservation.



With the topic of energy conservation and solar energy application, we host various promotional and educational events to guide the public to show concern for the issue of the sustainability of the global ecology and arrange the static exhibitions featuring all kinds of topics on energy conservation. Besides, we arrange the professional group tours and offer the lectures and volunteer training courses in expectation of promoting the concept of energy conservation.

From 2013 to 2015, we host 149 promotional events of energy conservation in which 4,708 persons took part.



We combine the cross-field services of the library and the topic of energy conservation and environmental protection, strengthen the construction and equipment to achieve the multi-functional goals, make use of the exhibition space to improve the library instructions and education on solar energy technology, and host the events such as guided tours and promotion lectures to encourage the public to use the library and pay more attention to the issue of energy conservation and environmental protection.



At present, the BIPV (Building-integrated photovoltaic) system is applied to generate power. The present equipment capacity is 3.36kw. In the summer of 2016, it is scheduled to increase the equipment capacity to about 50kw. Each year, 47,840kWh will be generated. Solar energy is practically and effectively used in the library construction and the goal of sustainability and self-sufficient energy is accomplished.

Solar Library Construction(Equipment) Function Plan



Good Lighting
Natural lighting utilizes the cross-section transparent light to reduce the energy consumption of the building. The south facade of the exhibition is equipped with a row of thermal windows, making good lighting in the interior. The position of the window is on the south facade is located in the middle, making a large amount of natural lighting and making the overall efficiency of energy conservation for the building.

Insulation of the Construction
The insulation of the roof and the walls is strengthened. The roof layer board featuring great insulation effectively stops the influence of the outdoor heat on the indoor temperature. However, there are the functions of sound insulation: reducing the thermal radiation effect and lowering the heat-conduction performance for the solar panel. The double-pane glass airight window supported with the coating technology lowers the effect of heat conduction and radiation, which is the feature of the energy-conserving architecture.

Solar Photovoltaics
It not only generates power. The distributed generation BIPV (Building Integrated Photovoltaic) system in the sun-roof of the building, making it not only generate power but also save cost.

Using Natural Cooling
The 100% natural materials of plants and minerals are used to reduce the heat-conducting capacity and reduce the heat conduction. The natural heat is reduced and absorbed without any chemical reaction and equipment, reducing the carbon footprint and saving energy. The natural cooling mode of concrete is performed in the building way to create a healthy and comfortable indoor climate. The natural cooling is the sustainable building material. From the production, usage, to the waste disposal of the building, they are part of the natural circulation.

Airtight Doors and Windows, Energy Conservation, and Sound Insulation
Windows are a house's eyes. However, they are also the house's heat loss. The argon-filled double-pane glass airight window supported with the coating technology minimizes the effect of heat conduction and radiation on the room temperature. Besides, lowering the heat loss from the window to the interior both the heat and sound insulation and control are met.

High Quality wind Insulation
The argon-filled double-pane glass airight window supported with the coating technology minimizes the effect of heat conduction and radiation on the room temperature. Besides, lowering the heat loss from the window to the interior both the heat and sound insulation and control are met.

附件三：海報展解說暨參訪圖書館照片



臺北市立圖書館洪世昌館長於海報展會場。



與會人士參觀與詢問
臺北市立圖書館參展
海報。



大會開幕典禮。



哥倫布大都會圖書館
雄偉、古典的總館建築
外觀。



哥倫布大都會圖書館
活潑的兒童閱覽室設
計。



哥倫布大都會圖書館
開闊的讀者閱讀空間
與彈性運用的活動式
桌椅。



上：建築具現代感、館舍橫跨道路兩端的辛辛那提公共圖書館總館。

下：總館主要入口前的書本造型公共藝術作品。



辛辛那提公共圖書館總館的“圖書得來速”車道。



辛辛那提公共圖書館總館的創客空間(Maker Space)所提供的雷射雕刻、3D列印、裁縫工作站、錄音間等服務。