三、研討會主題

「第 15 屆 ITS 世界年會」在各論文場次類別可區分為大會(Plenary)、執行(Executive)、特殊(Special)、技術(Technical)、科學(Scientific)、互動(Interactive)、美國 ITS(Annual Meeting)、泛美洲 ITS(Pan-American)、國際利益、評估與成本(IBEC)及論壇展示櫥窗(Forum Showcases)等多種類別子研討會,研討會場次時程安排如附錄 2。

- 3.1 研討之類別與主題區分
- 1. 子研討會類別
- (1) 大會(Plenary) 場次

主要由各區域之 ITS 產業領袖及重要政府官員,針對 ITS 近來之挑戰 與機會、ITS 建置之政策與策略意函進行專題演講。

PLENARY SESSIONS

Plenary sessions prepare you for the important work of the 15th World Congress on ITS. Celebrate the international cooperation and ITS advancement festered by the World Congress with your region's prominent business leaders and government officials. Learn about the lotest challenges and apportunities facing ITS and the policy and strategic implications for ITS deployment. You cannot afford to miss these sessions.

(2) 執行(Executive)場次

主要由高階的產業執行者、政府官員、使用者代表進行議題簡報,提供ITS 重要課題互動、思考的機會。

Executive Sessions provide thought-provoking, interactive discussion of key topics in ITS, presented by top-level industry executives, public officials, and user representatives. They are designed to challenge, provoke, and pose the hard questions.

(3) 特殊 (Special) 場次

由全球美洲、歐洲、亞太代表主持 59 個場次,由高階專家、決策者對於國際實務發展帶來即時資訊及有價值的見解,筆者獲邀代表我國出席 11/17 亞太地區 ITS 發展場次進行報告。

SPECIAL SESSIONS

The three global ITS regions representing the Americas, Europe, and Asia Pacific will host 59 Special Sessions. These sessions feature high-level experts and decision-makers presenting you with timely information and valuable insight on international best practices.

(4) 技術 (Technical) 場次

主要由ITS專家及學者發表之論文,強調最新運輸科技的技術細節、 重要研究計畫、實際測試及其他新興課題之進展與結果。

TECHNICAL SESSIONS

The second secon

Technical Sessions are paper sessions targeted at ITS professionals and scholars to learn more from the authors about the technical details of the latest transportation technologies, as well as progress and results of vital research programs, field tests, and other initiatives worldwide. Nearly 150 technical and scientific sessions will be offered addressing an extensive portfolio of ITS topics.

(5) 科學 (Scientific) 場次

與技術場次類似,為偏向學術研究之論文發表。

SCIENTIFIC SESSIONS

(6) 互動 (Interactive) 場次

提供作者與出席者一對一機會深度探討最近在科技研究、計畫進展及計畫評估的最新成果。

INTERACTIVE SESSIONS

Interactive sessions offer eathors and delegates an opportunity to speak directly one-on-one to explore in depth their latest achievements in technology research, program development, and program assessment. Interactive sessions are located directly adjacent to the main exhibition area to ensure maximum apportunities for interaction.

(7) 美國 ITS (Annual Meeting) 場次

美國 ITS 年度會議提供 52 場教育場次聚焦於 ITS 公、私部們在美國的努力,強調參與、科技、新興及政策課題。

ANNUAL MEETING SESSIONS

The ITS America Annual Meeting will offer 52 educational sessions focused on the public and private sector efforts in the U.S. ITS America will host specially invited professionals in ITS from both public and private sectors, from the U.S. and abroad, to highlight partnerships, technologies, initiatives, and policies.

(8) 泛美洲 ITS (Pan-American) 場次

依據 2004 年阿根廷 ITS、巴西 ITS、加拿大 ITS、智利 ITS 及美國 ITS 簽署之備忘錄而成立,主要目標在促進北、中、南美洲間之研究、教育、

商業合作,此次是第3屆會議。

PAN AMERICAN ITS SESSIONS

Pan-American ITS (PAITS) was created in 2004 under a Memorandum of Understanding between ITS Argentina, ITS Brazil, ITS Canada, ITS Chile, and ITS America with the objective of promoting research, educational, and commercial cooperation among the ITS organizations of North, Central, and South America. As part of the MOU, every two years PAITS conducts a Congress, and in 2008, ITS America is hosting the 3rd Pan-American ITS Congress in conjunction with the World Congress on ITS. PAITS is presenting five special sessions that will address specific Latin American topics and issues on ITS. The sessions will be presented in Spanish with simultaneous translation into English.

(9) 國際利益、評估與成本 (IBEC) 場次

IBEC工作小組係於 2002 年第 9 屆 ITS 世界年會設立,提供 ITS 評估技術之資訊交換的國際論壇,本次主要討論道路定價、貨物運輸、氣候變遷、特殊事件等以評估為觀點之主題。

IBEC SESSIONS

The International Benefits, Evaluation, and Costs (IBEC) Working Group was created in October 2002 at the 9th World Congress on ITS in Chicago to provide an international forum for information exchange on ITS Evaluation techniques, best practices, and results. IBEC has presented four special sessions each year at the World Congress, hosted by the IBEC Organizing Committee. In 2006, IBEC welcomes you to sessions that will feature presenters from all over the world discussing road pricing, freight transportation, climate change, and special events topics focusing on evaluation perspectives and project undates.

(10)論壇展示櫥窗(Forum Showcases)場次

美國 ITS 論壇主要展示美國 ITS 會員去年的活動、來年的目標等課題。

FORUM SHOWCASES

Featured prominently in ITS America's Annual Meeting is the traditional Forum Showcases. Each year, ITS America's Forums coordinat a meeting to showcase their activities over the past year, identify their objectives for the year to come, and tackle topics that are central to the interests of Forum members. The Forum Showcases offer something for everyone. Whether you are a delegate of the World Congress or one of ITS America's valued members, plan to attend at least one of the seven Forum Showcases on Tuesday morning and Wednesday afternoon.

2. 研討會主題區分

上述各類場次若以「非技術及科學場次」之研討會主題進行區分,可區分為下列主題:

- (1) 數值地圖 (Digital Maps)
- (2) 評估 (Evaluation)
- (3) 貨運管理 (Freight Management)
- (4) ITS 策略規劃:社會議題 (ITS Strategic Planning: Social Issues)
- (5) 政策 (Policy)

- (6) 大眾運輸 (Public Transport/Transit)
- (7) 研究與發展:想像的科技 (Research and Development: Visionary Technology)
- (8) 道路定價與擁擠管理(Road Pricing and Congestion Management)
- (9) 郊區運輸 (Rural Transport)
- (10)安全與保安 (Safety and Security)
- (11)標準 (Standards)
- (12)永續 ITS:能源與環境 (Sustainable ITS: Energy and Environment)
- (13)車載機(Telematics)
- (14)交通與旅行者資訊 (Traffic and Traveler Information)
- (15)運輸管理 (Transport Management)
- (16)運輸需求 (Transport Demand)
- (17)車輛-基礎設施協調 (Vehicle-Infrastructure Cooperation)
- (18)無線通訊 (Wireless Communications)

若以「技術及科學場次」之研討會主題進行區分,可區分為下列主題:

- (1) 環境事務 (Environment Matters)
- (2) 貨運及商用車輛 (Freight and Commercial Vehicles)
- (3) 基礎設施與交通管理(Infrastructure and Traffic Management)
- (4) 政策與策略 (Policy and Strategy)
- (5) 大眾運輸 (Public Transport/Transit)
- (6) 訓練與教育 (Training and Education)
- (7) 旅行者資訊 (Traveler Information)
- (8) 車輛系統與電子設備 (Vehicle Systems and Electronics)
- (9) 弱勢使用者 (Vulnerable Users)
- (10)無線通訊 (Wireless Communications)

3.2 實體展覽與技術行程

1. 展覽會場

展覽會場有數百個產業、官方、研究及 ITS 相關組織展示 ITS 周邊設備、應用領域及研發成果,展覽者主要區分為:

- (1) 先進交通管理(Advanced Traffic Management)
- (2) 先進車輛控制/安全系統(Advanced Vehicle Control/Safety Systems)
- (3)協會組織 (Association)
- (4) 汽車產業 (Automotive)
- (5) 中央控制室/交通運轉系統 (Central Control Room/Traffic Operations Systems)
- (6) 商用車輛運轉 (Commercial Vehicle Operations)
- (7) 消費者電子 (Consumer Electronics)
- (8) 電子收費系統 (Electronic Toll/Fare Collection Systems)
- (9) 車隊管理系統 (Fleet Management Systems)
- (10)政府組織 (Government Agency)
- (11)GPS&GIS 科技應用 (GPS&GIS Technology Applications)
- (12) 車內導航系統/安全設備 (In-Vehicle Navigation System/Safety Devices)
- (13)跨運具系統整合 (Intermodal Systems Integration)
- (14)網路為基礎之應用(Internet-Based Applications)
- (15)位置為基礎之科技與服務 (Location-based Technology & Services)
- (16)模式化與模擬工具 (Modeling & Simulation Tools)
- (17)障礙物警告系統 (Obstacle Warning Systems)
- (18)停車管理系統 (Parking Management Systems)
- (19)個人智慧網路 (Personal Intelligence Networks)
- (20)刊物/媒體 (Publications/Media)
- (21)即時科技(Real-time Technology)
- (22)號誌與控制設施 (Signaling & Control Devices)
- (23) 策略規劃 (Strategic Planning)
- (24)監視器科技 (Surveillance Technology)
- (25)系統工程 (Systems Engineering)

- (26) 通訊 (Telecommunications)
- (27) 車載機(Telematics)
- (28)資訊可變標誌 (Variable Message Signs)
- (29)車輛位置科技 (Vehicle Location Technologies)
- (30)無線科技 (Wireless Technology)
- 2. 車輛路測設施整合(Vehicle Infrastructure Integration, VII)特展 主要包括三項 VII 特展,包括:
 - (1)城市街道及高速公路 VII 展示:於曼哈頓西區(於展示車內拍攝如圖 4-圖 7)及長島高速公路 50 英里之測試廊帶,於大客車上透過電視螢幕顯示不同之 V2I 應用性,如車內之標誌顯示、警示訊號、旅行者資訊及 E 化商業應用。



圖 4 展示車外街景



圖 5 機場班機資訊



圖 6 周邊道路停車場資訊



圖 7 前方徵收擁擠費區資訊

- (2)VII 未來運輸管理中心:在展覽館會場中設置一虛擬之 VII 未來運輸管理中心,強調 VII 未來應用性可包括合作系統網路管理、探針資料、電子收費與擁擠定價、停車管理、事件反應、路廊管理、車隊管理、大眾運輸及商用車輛之應用。
- (3)11 大道戲院:主要由不同車輛製造與供應商,如 GM、Honda、 Mercedes-Benz、NISSAN、TOYOTA 及 Volkswagen,利用 VII 技術, 展示車輛主動安全之應用概念。

3. 技術行程

大會並提供幾項付費之技術行程供與會者選擇,包括:

- (1) 中央車站更新(Grand Central Terminal Revitalization)
- (2) 紐約市聯合交通運輸管理中心 (New York City Joint Traffic Transportation Management Center)
- (3)下曼哈頓重建(Lower Manhattan Rebuilds)
- (4) TRANSCOM 通訊中心 (TRANSCOM Communications Center)
- (5)林肯隧道公車專用道及港務局公車總站(Lincoln Tunnel Exclusive Bus Lane and Port Authority Bus Terminal)
- (6) 紐澤西全州交通管理中心 (New Jersey Statewide Traffic Management Center in Woodbridge)
- (7) 紐約市緊急管理辦公視技術之旅及跨機構事件管理展示 (New York City Office of Emergency Management Technical Tour and Inter-Agency Incident Demostration)
- (8) 紐約州運輸部 INFORM 交通管理中心 (New York State Department of Transportation INFORM Traffic Management Center)
- (9)哈德遜村交通管理中心(Hudson Valley Traffic Management Center)