

出國報告 ( 出國類別：參與活動 )

# 美國印第安那-普渡大學韋恩堡校區

## 參訪報告

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派赴國家：美國

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報告日期：民國 100 年 11 月

## 摘要

本次出國參訪主要目的為代表研發處參加由印第安納大學-普渡大學-韋恩堡校區(Indiana University-Perdue University Fort Wayne, IPFW)主辦之第一屆印第安納-台灣技術轉移與企業界高峰會談(the First Indiana-Taiwan Technology Transfer and Entrepreneurship Summit)。

IPFW 是本校在去年校慶時簽訂合作協議的新姐妹校，為進一步了解對方學校，個人在參與會議期間，亦參觀校園各項教學與實驗室設施，以及該校之創新育成中心，並與IPFW 的校長及相關行政與學術主管，當面討論未來兩校間可以共同展與合作之項目。IPFW 為本校重要的姐妹校之一，該校位於印第安納州北部，是附近地區最重要的全科學大學，在電機機械、機動車輛、多媒體等領域有傑出之研究與教學成果；目前每年本校約有6位同學前往IPFW 參與研修一學期的交換學生課程。

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## 目的

本次出國參訪主要目的為代表研發處參加由印第安納大學-普渡大學-韋恩堡校區(Indiana University-Perdue University Fort Wayne, IPFW)主辦之第一屆印第安納-台灣技術轉移與企業界高峰會談(the First Indiana-Taiwan Technology Transfer and Entrepreneurship Summit)。

印第安納-台灣技術轉移與企業界高峰會談是由本校與IPFW在今年三月間共同提出的構想，原始之主要目的是希望將兩校的研發成果以共同平台的方式相互分享；但是在經過雙方不斷討論之後，IPFW決定將此構想提升至印第安納-台灣的層次，並廣泛邀請我國的大專院校參與。本校校長亦同意該類活動對於提升本校之校譽及能見度，以及實質推廣本校校內的研發成果皆能有重大意義，故本校校長亦全力支持本校教師參與該活動。本屆會議校內共計有蔡榮峰教授(水資源處理)、林依恩副教授(癌症檢測晶片)以及林中彥助理教授(小型風力發電機)等三位老師參與並發表成果。

其他與會學校包含台北科技大學、中原大學、逢甲大學以及成功大學；各校皆在會議中發表並分享研發成果。在會議最後一天，印第安納大學-普渡大學-韋恩堡校區亦安排當地之業界參訪行程，參訪的當地公司包括一家製造醫療用導線線材的公司(生產線)、一家運用地下恆溫特性的空調公司(生產線)以及一家製造人工關節的公司(研發測試部門)。IPFW 是本校在去年校慶時簽訂合作協議的新姐妹校，為進一步了解對方學校，個人在拜訪IPFW 期間，參觀校園各項教學與

實驗室設施，以及該校之創新育成中心，並與IPFW 的校長及相關行政與學術主管，當面討論未來兩校間可以共同發展與合作之項目。

## 過程

在一年間本校與IPFW的交流密切頻繁，成長迅速，今年夏天本校之English Summer Camp邀請IPFW三位同學到本校參與活動；這學期開始已有4位同學至IPFW參與研修一學期的交換學生課程，主修領域遍及本校工程、電資、管理與文理等各學院，已成為本校最重要的姐妹校之一。

## 行程安排

印第安納大學-普渡大學-韋恩堡校區位於印第安納北部，地處偏遠且交通不便。然而其特殊且有些隔絕的地理環境也使得SIUC 保持了美國中西部農村樸實的本性與傳統的文化氣氛；韋恩堡附近最大城市為芝加哥，自台灣前往該地之飛行時間約需20 小時，加計候機與轉機時間則往往超過30 小時，而抵達芝加哥後，要另外搭乘小型飛機，以前往韋恩堡。

09月23日(五)

達美航空(DL-0276)

09月23日(五)

09:35 出發:台北(桃園)(TAIWAN TAOYUAN) 飛行03小時20分

13:55 抵達:東京(成田)(TOKYO NARITA AIRPORT)

達美航空(DL-0618)

15:30 出發:東京(成田)(TOKYO NARITA AIRPORT) 飛行09小時15分

08:45 抵達:波特蘭(PORTLAND INTL AIRPORT)

達美航空(DL-7599)

10:05 出發:波特蘭(PORTLAND INTL AIRPORT) 飛行01小時09分

11:14 抵達:溫哥華(VANCOUVER INTL AIRPORT)

09月27日(二)

美利堅航空(AA-1014)

14:55 出發:西雅圖(SEATTLE INTL AIRPORT) 飛行03小時45分

20:40 抵達:芝加哥(O'HARE INTL AIRPORT)

美鷹航空(AA-4295)

21:45 出發: 芝加哥(O'HARE INTL AIRPORT) 飛行00小時45分

11:30 抵達: 韋恩堡(Fort Wayne INTL AIRPORT)

飛行過程漫長但是順利, 9 月 27 日抵達韋恩堡時已是午夜時分; 感謝IPFW  
電機系林益海教授親自至機場接機, 並將個人送至旅館。

09 月 28 日(三)

本日主要活動安排為IPFW與國立台北科技大學進行MOU之簽約儀式。並  
由中原大學、IPFW、以及北印第安納州的企業界針對專利授權與技術移轉等議  
題發表專題演講; 我國駐芝加哥經濟文化辦事處陳組長亦親自與會, 共襄盛舉。



個人與IPFW校長合影



我國駐芝加哥經濟文化辦事處組長、國立台北科技大學校長以及  
當地企業界代表與IPFW校長合影

中午在簽約會場由IPFW提供中式飯盒，能在遙遠的異鄉吃到道地的東方食物，令人驚喜；個人同時借此機會與IPFW 國際學生辦公室主任Brian先生見面會談。Brian先生在2011年初曾至虎尾科技大學訪問，第二次見面我們對今年兩校間的密切交流與合作關係進行深入的討論與意見交換，目前雙方對學生部分的交流感到滿意，但是兩校間教職員交流以及各項學術以及研究的交流還有待加強，這也是未來要繼續努力的部分。

午宴後，IPFW安排與會的各校代表至鄰近鄉鎮參觀骨董車博物館。美國密西根州、俄亥俄州、以及印第安納州等地區原本就有強大的機械工業基礎，在汽車工業開始盛行的初期，印第安納州亦有非常多的新創汽車公司，盛況類似1990年代的網路公司風潮，而歷史也不斷重複：大部分的新創公司在幾年間紛紛關閉，其他有競爭力的公司不是遷廠至密西根州等更具競爭力的地區，不然則被購併，其他少數則在支持數十年後依然不敵整體大環境之改變而於1940年代後全數關閉。鑑往可知來，一個地區必須要能依據其人文狀況及地理特性去建立其獨特優勢，以避免在歷史浪潮中滅頂。

晚間由當地商會與IPFW共同於學校之招待所以自助式晚餐招待與會各校與各機構代表。自助式的晚宴雖然較不正式，但是整體氣氛輕鬆自在，原本不熟識的各校與各機構代表也趁此機會自我介紹並彼此認識，也可以對各項議題做比較深入的意見交換與探討，這樣的做法也很值得我們參考。



IPFW 招待所 自助式晚餐場地

09 月 29 日(四)

本日最主要的活動行程為第一屆印第安納-台灣技術轉移與企業界高峰會談，從上午先由IPFW校長及美國印第安納州聯邦眾議員辦公室主任Paul Lagemann致詞，以及經濟部駐芝加哥台北經濟文化辦事處長官致詞後，由西北印第安納州投資銀行業的高階主管針對 Elevate Ventures and Quick Start: Supporting Entrepreneurs in Northeast Indiana之課題發表專題演講；之後以兩個場地與上下午時間分四個場次由各參與學校與機構以上台簡報及海報方式發表專利及研發成果。



個人協助因簽證因素無法成行的林煥榮老師發表簡報



中場時間與會人員交換意見



與會人員參觀IPFW多媒體研發實驗室

晚餐則在IPFW校長自宅由校長招待用餐；由校長夫人親自以點心及自家調製之雞尾酒接待所有與會來賓，並由外燴餐廳人員提供非常精緻的正統美國式牛排等晚餐，大家見面談得很愉快，也希望這樣的會議未來能在美國印第安納州及台灣的學校間輪流舉辦，能將國內外創新研發的經驗與成果相互分享，未來能進一步提升生活品質及經濟發展與文化氣氛。



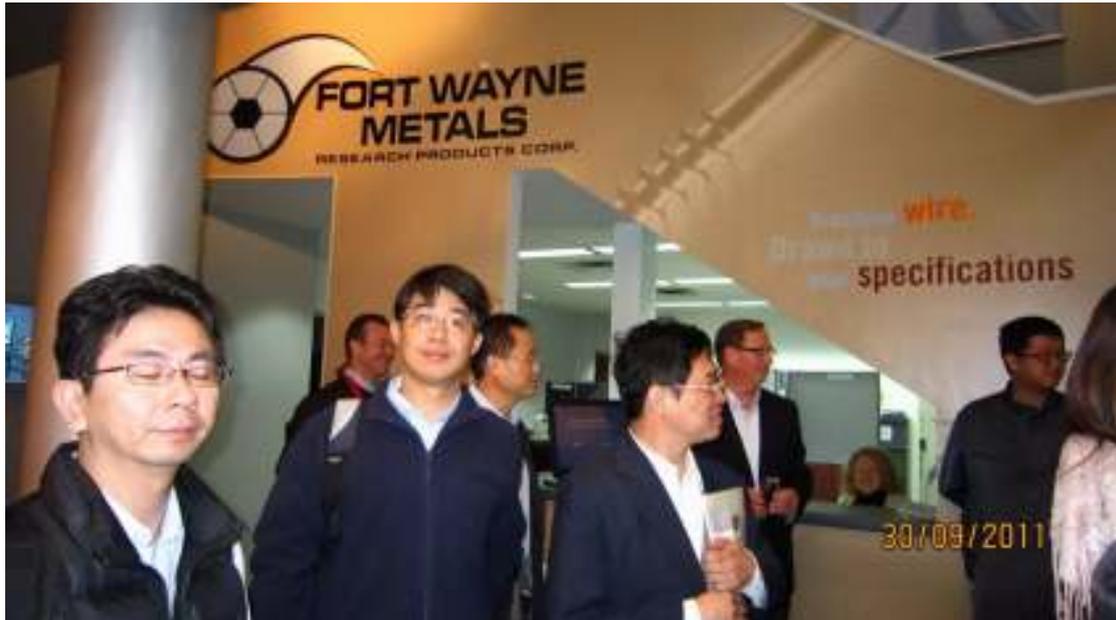
校長家的晚宴



與校長夫人合影

09 月 30 日(五)

本日上午由IPFW安排交通車，參訪的Fort Wayne Metals。Fort Wayne Metals是一家製造醫療用導線線材的公司的生產線，公司已成立多年，但近年由於原本的製造業無法與國外競爭，故提升自身技術改為從事醫療導線線材製造，成品包括各種鐵系金屬，白銀導線，以及鈦合金導線等各類產品。



參訪Fort Wayne Metals, 醫療線材製造公司

上午安排的第二家公司是一家運用地下恆溫特性的空調公司的生產線。該公司的產品是利用淺層地下土壤(大約100公尺深度)的恆溫特性，在夏天時以水流進入地下管線進行熱交換，可得到冷水以節約冷氣空調耗電；而冬天則將接近冰點的冷水注入地下管線進行熱交換，可得到較高溫的水以節約暖氣空調耗電。



參訪Water Furnace, 地熱空調公司



參訪Water Furnace, 地熱空調公司

下午則由IPFW安排參訪一家距離較遠，隸屬嬌生集團公司的子公司的骨科醫療器材部門，參觀製造人工關節的公司之研發測試部門。該公司研發部門戒備森嚴，但是實驗室設備之投資與內容及其研發品項都甚為可觀，其針對特定領域長期投資與耕耘的精神，正是我國的研發環境裡欠缺的。



參訪Depuy, 人工關節製造公司

10月1日(六)

美鷹航空(AA-4137)

13:05 出發: 韋恩堡(Fort Wayne INTL AIRPORT) 飛行00小時55分

13:00 抵達:芝加哥(O'HARE INTL AIRPORT)

美利堅航空(AA-425)

14:55 出發:芝加哥(O'HARE INTL AIRPORT) 飛行04小時20分

17:15 抵達:西雅圖(SEATTLE INTL AIRPORT)

10月02日(日)

達美航空(DL-9266)

11:50 出發:溫哥華(VANCOUVER INTL AIRPORT) 飛行00小時50分

12:40 抵達:西雅圖(SEATTLE TACOMA INTL AIRPORT)

達美航空(DL-0295)

13:55 出發:西雅圖(SEATTLE TACOMA INTL AIRPORT) 飛行11小時00分

10月03日(一) 16:55 抵達:東京(成田)(TOKYO NARITA AIRPORT)

達美航空(DL-0275)

19:25 出發:東京(成田)(TOKYO NARITA AIRPORT) 飛行03小時45分

22:10 抵達:台北(桃園)(TAIWAN TAOYUAN)

## 心得及建議

本次奉校長指示 代表研發處出席在IPFW主辦之第一屆印第安納-台灣技術轉移

與企業界高峰會談(the First Indiana-Taiwan Technology Transfer and Entrepreneurship Summit) , 不但個人獲益良多 , 相信也讓本校與IPFW間之交流能更密切 , 相關之技術合作與轉移事宜也漸次順利推展中。類似的技術交流會議明年計畫在台灣舉辦 , 希望這樣的活動能延續並能對兩地的產業界有實際的影響。幾項個人的心得與建議略述如下:

1. 進行國際合作與交流的人力與金錢成本都很高 , 但是對整體學生與學習環境氛圍影響也很大 ; 學校再進行國際合作與交流時若能設定明確目標 , 則能使國際合作與交流能以既定之步伐與方向進行 , 得收事半功倍之效。
2. 兩校間的互訪 , 尤其是高層互訪 , 往往能大幅度帶動姐妹校間的相互往來與交流 , 也可以使得交流能更有方向與目標。
3. IPFW位於美國中西部 , 以地理位置來說其實離台灣頗遙遠 ; 本校未來將設法開發其他位於美國及加拿大西海岸的姐妹校 , 以降低未來本校與姐妹校間交流時的交通負擔與時間成本。

**1st Indiana-Taiwan Technology Transfer and Entrepreneurship Summit  
September 27-30, 2011**

**At**

**Indiana University-Purdue University Fort Wayne  
Fort Wayne, Indiana, U.S.A.**

**Theme:** *“Indiana – Taiwan Technology Transfer & Entrepreneurship Connection”*

**Summit Overview**

The Indiana-Taiwan Technology Transfer and Entrepreneurship Summit (ITTES) is a global forum to showcase the innovative technologies and to initiate joint ventures facilitated by industry/government/university partnerships. The summit is designed to:

- Showcase innovative technologies developed both from Taiwan and Indiana universities, including their potential for commercialization, and
- Develop strategic partnerships for commercialization of these technologies through an open presentation and dialogue among university researchers, business and economic development professionals, entrepreneurs, industrial companies, and investors.

It is hoped that during the summit, some technologies will result in commercialization agreements between the Taiwanese universities and Indiana businesses, entrepreneurs and investors to allow for economic growth in the state through exposure to new intellectual property.

Indiana University-Purdue University Fort Wayne (IPFW) serves in the role of overseas representative of its international partners to facilitate the program in expediting the technology transfer and incorporation spin-off process. We anticipate attracting a target attendance of 150 people. In addition, this summit will include a poster session to showcase (a) other research projects and intellectual property available from various institutions (both from Indiana or Taiwan), (b) a design competition organized by students, and (c) industry, entrepreneurship support and economic development programs in northeast Indiana.

**Preliminary Program Agenda/Information on ITTES**

**Time and Date:** September 27-30, 2011

- Taiwanese/IPFW Research & Engagement – September 27
- Discussions of a MOU to establish the Global Alliance for Technology Transfer and Entrepreneurship (GATTE) and signing ceremony - September 28
- Evening reception – September 28
- Technology Showcase presentations – September 29
- Taiwanese guests visit regional companies – September 30

**Tuesday, September 27, 2011**

1:30 p.m. Panel Discussion: Taiwanese/IPFW Research and Engagement including Center of Excellence, Community outreach, University engagement partners, etc.

**Wednesday, September 28, 2011**

9:00 a.m. Discussion of a Memorandum of Understanding (MOU) to establish the Global Alliance for Technology Transfer and Entrepreneurship (GATTE) and signing ceremony: IPFW, Northeast Indiana Innovation Center, Alliance, Northeast Indiana Development, Taiwanese Universities and their R&D Offices, and Taiwanese R&D/Innovation/Incubation Centers

1:00 p.m. IPFW Campus Tour

5:00 p.m. Reception for Taiwanese visitors, regional business leaders, Northeast Indiana Taiwan visit team, corporate plant tour hosts (by invitation only) - Location: IPFW Alumni Center

7:30 p.m. Omnibus Lecture: Mitch Daniels, Governor, State of Indiana – Location: Rhinehart Music Center, IPFW

**Thursday, September 29, 2011**(Additional technology presentations and poster papers are expected)

8:00 a.m. Registration, Continental Breakfast, Poster Presentation & Networking – Location: IPFW Walb Union Ballroom

8:30 a.m. Welcome  
Michael A. Wartell – Chancellor, Indiana University – Purdue University Fort Wayne

8:40 a.m. Program Introduction  
Paul Lagemann, District Director, United States Senator Dan Coats

8:50 a.m. Doing Business With Taiwan –Taiwanese – US Business Start-ups  
Minister of Economic Affairs, Taipei Economics and Cultural Office (TECO) in Chicago

9:00 a.m. Elevate Ventures and QuiackStart: Supporting Entrepreneurs in Northeast Indiana –  
Karen Goldner, President, Main Street Venture Fund  
Robert Clark, Management Director, Indiana Angel Network

9:30 a.m. **Taiwan- IU and Purdue Technology Presentations (2 tracks of 4 each)**  
*Track 1: Nano-Scale, Electronics and Thermoelectric Material Technologies(Walsh Ballroom)*

- **FePt Nanoparticles for Dual Mode CT/MRI Molecular Imaging of Cancer Cells**, National Cheng-Kung University & NTNU Corporation, Professor Dar-Bin Shieh, NCKU, Taiwan
- **Nano-Sized Alumina Particles**, National Cheng-Kung University, Pei-Ching Yu and Fu-Su Yen, NCKU, Taiwan
- **Flexible Polymer-Based Thermoelectric Materials on Fabrics for Use as Personal Cooling/Heating and Portable Power Source**, Purdue Research Foundation, Dr. Yue Wu, School of Chemical Engineering, Purdue University West Lafayette
- **Energy Harvesting Power Supply for Sensor Network**, National Taipei University of Technology, Taiwan, Professor Dahseng Lee, NTUT, Taiwan

*Track 2: Renewable Energy, Environmental and Water Management Technology (Walsh 222-226)*

- **Small Scale Integrated Windmill System**, WindTek Green Energy Technology Company, Ltd. Professor Frank Lin, National Formosa University, Taiwan
- **A Novel Cruising Jet Aerator for Aquaculture and Water Pollution Applications**, National Formosa University, Taiwan, Professor R.F. Tsai, NFU, Taiwan
- **Direct Ethanol Fuel Cell**, Indiana University Research and Technology Corporation, Professor Rongrong Chen, Indiana University-Purdue University Indianapolis
- **High Rate Bio-Hydrogen Production Technology (HRBhPT)**, Green Energy Development Center, Dr. Huang-Chih Lu, Office of R&D, Feng Chia University, Taiwan,

11:00 a.m. Break - Posters Presentations & Networking

11:30 a.m. Lunch

12:00 noon Keynote Address  
International Entrepreneurship and Technology Transfer

12:30 p.m. **Taiwan- IU and Purdue Technology Presentations (2 tracks of 4 each)**

*Track 3: Wireless Sensors, Data Acquisition and Monitoring Technology (Walb Ballroom)*

- **“Sky Falcon” Unmanned Aerial Vehicle Tracking and Ground Control System with Novel Applications**, RayFalcon Technology Corporation & National Formosa University, Taiwan, Professor Huan-Jung Lin, NFU, Taiwan
- **Human Vision for Robotic Machines**, Purdue Research Foundation, Professor Zygmunt Pizlo, Department of Psychology, Purdue University West Lafayette
- **Universal Wireless Internet Data Acquisition System (WIDAS)**, Max Yen, et. al., Indiana University-Purdue University Fort Wayne
- **Extension of Fixed Controller Area Networks to Wireless Personal Area Networks**, Indiana University Research and Technology Corporation, Paul A. Kuban, Engineering Department, University of Southern Indiana, Evansville, IN

*Track 4: Novel Instrumentation and Detection (Walb 222-226)*

- **Indoor Personal Locator via Wireless Sensor Network**, Chung Yuan Christian University, Professor Yhu-Show Tsai, CYCU, Taiwan
- **Oxazine-Based Opto-Chemical Sensor for Detecting Contaminants in Water**, Purdue Research Foundation, Professor Agbai “George” A. Nnanna, Purdue University Calumet
- **An Automated Microfluidic Enzyme-Linked Immunosorbent Assay Disc Detection System (CD-ELISA)** Dr. Li-Ling Ye and Dr. Samuel I-En Lin, National Formosa University, Taiwan
- **Biodegradation Suppression Solution for Forensic Samples**, Indiana University Research and Technology Corporation, Dr. John Goodpaster, Indiana University-Purdue University Indianapolis

2:00 p.m. **Poster Presentations & Networking**

### **Poster Presentations**

#### **NSWC Crane**

1. Non-invasive Measurement System
2. Method and System for Detecting Leakage of Energy Structure Storage Liquid
3. Backplane Tester and Method of Use
4. Igniter for Exothermic Torch Rod
5. Battery Charger and Power Reduction System and Method
6. Miniature Cryogenic Shutter Assembly
7. Strip Charge Storage Arrangement
8. Locator System and Method Including Node and Target Acquisition
9. Integrated Radar, Optical and Sighting System
10. Electromagnetic Interference Protective Backshells for Cables
11. Modular Safe Room
12. Mounting System
13. Tilt Lock Mechanism and Method for Movable Optical or Display Device
14. Two-Band Imaging System
15. Quick-Release Gun Sight Adapter

16. Dual Channel Downconverter
17. Fast Response Fluid Flow Valve Control Nozzle

#### **Purdue Research Foundation**

1. Silica Entrapment of Biofilms in Membrane Bioreactors for Water Regeneration (#65213)
2. Increased Performance Lithium Ion Battery Cathodes (#65730)
3. Chitosan Derivative for Endotoxin Inactivation (#65984)
4. Continuous Flow Solar Ultraviolet Disinfection System for Drinking Water (#65920)
5. Portable Device for Detection of Environmental Pathogens in Food and Water Supplies (#64984)
6. Enzymatic Treatment of Alginate to Reduce Membrane Fouling for Municipal Wastewater Reuse (#65931)

#### **Taiwan Research Partners**

1. Online Sampling of Metal Nanoparticle Fluid, National Taipei University of Technology, Professor Liang-Chia Chen, National Taiwan University, Taiwan
2. Rapid and Precise Scanning of 3D Occlusal Profile of a Dental Cast, National Taipei University of Technology, Professor Liang-Chia Chen, National Taiwan University, Taiwan
3. Preparation of 3D Aerogel Array Biochips, Chung Yuan Christian University, Yen Kuang Li, Yun-Chu Chen, Jui-Chuang Wu, Walter Hong-Shong Chang, Yui Whei Chen-Yang, CYCU
4. Application of Membrane Bioreactor on Wastewater, Chung Yuan Christian University, Professor Sheng-Jie You, CYCU
5. 3D Printer and Direct High Temperature Resistance Molding for Metal Castings, National Cheng Kung University, Professor Wei-Hsang Lai, NCKU

3:0 p.m. Close of formal program

6:00 p.m. Dinner for Taiwanese Guests, Taiwan visit team, IPFW leadership and community guests (by invitation only) – Location: Chancellor Wartell's Home

#### **Friday, September 30, 2011**

8:00 a.m. Breakfast for Taiwanese Visitors & Community Hosts at Holiday Inn

9:00 a.m. Company Tours (hosted by committee members – various option to be made available and schedule in advance): Northeast Indiana Innovation Center, Fort Wayne Metals, Water Furnace, or PHD

12:00 p.m. Lunch and tour of innovation center

1:40 p.m. Company Tour: DePuy Orthopaedics

**ITTES Official Lodging** (Rooms reserved for ITTES from Sept. 26 to Oct. 1, mention IPFW-Invention Seminar or ITTES to receive a special room rate of \$90 USD plus taxes)

- Holiday Inn at Fort Wayne and the Coliseum, 4111 Paul Shaffer Drive, Fort Wayne, IN 46825, U.S.A.  
Phone (260) 482-3800, Fax: (260) 482-3822, Email: [sales@fortwayneholidayinn.com](mailto:sales@fortwayneholidayinn.com)  
<http://www.fortwayneholidayinn.com/>

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