

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 (ITTTES) 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 ITTTES

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 QuiaackStart: Supporting Entrepreneurs in Northeast Indiana –
Karen Goldner, President, Main Street Venture Fund
Robert Clark, Management Director, Indiana Angel Network

9:30 a.m.	<p>Taiwan- IU and Purdue Technology Presentations (2 tracks of 4 each)</p> <p><i>Track 1: Nano-Scale, Electronics and Thermoelectric Material Technologies(Wall Ballroom)</i></p> <ul style="list-style-type: none"> • 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 <p><i>Track 2: Renewable Energy, Environmental and Water Management Technology (Wall 222-226)</i></p> <ul style="list-style-type: none"> • 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	<p>Keynote Address</p> <p>International Entrepreneurship and Technology Transfer</p>

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 ImmunoSobent 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
<http://www.fortwayneholidayinn.com/>

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