

# 3rd Asian Conference on Innovative Energy & Environmental Chemical Engineering

11-14 November 2012  
Farglory Hotel, Hualien, TAIWAN



Since 1988  
**ASCON**  
ENERGY & ENVIRONMENT  
Hualien, Taiwan 2012

## Second Circular Call for Papers

**Abstract Submission Deadline: May 15, 2012**

ASCONE-IEEChE 2012 Conference Secretariat  
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## 3rd Asian Conference on Innovative Energy & Environmental Chemical Engineering

**11-14 November 2012      Farglory Hotel, Hualien, TAIWAN**

**A New Paradigm Emerging from Fluidized-Bed and Three-Phase Reactors**  
In continuation of 1st to 10th Asian Conference on Fluidized-Bed and Three-Phase Reactors (since 1988)

# Second Circular Call for Papers

### Welcome to ASCON

The 3rd Asian Conference on Innovative Energy and Environmental Chemical Engineering (ASCON-IEEChE) is the thirteenth in a series of Asian Conference on Fluidized-bed and Three-phase Reactor, first held at Tokyo in 1988. In 2012, the 3rd ASCON-IEEChE will be held in Hualien, Taiwan. In continuation of the previous ASCON, we welcome every chemical engineer and scientist who is working in or interested in not only the science and engineering of fluidized-bed and multi-phase reactors but also a wide area of the energy and environmental issues.

### Conference Venue and Date

The conference will be held from **11th to 14th November, 2012** at Faroglory Hotel in **Hualien, Taiwan**. Detailed information on the Conference and Faroglory Hotel are available at <http://www.ascon2012.org.tw> and <http://www.farglory-hotel.com.tw/index.php?site=1>

### Sponsors

- The Society of Chemical Engineers, Japan
  - The Korean Institute of Chemical Engineers
  - The Taiwan Institute of Chemical Engineers
  - The Chulalongkorn University, Thailand
- Other sponsors will appear in the next circular.

### Organization

Chung Yuan Christian University, Taiwan

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### Conference Executive Secretary

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## Domestic Organizing Committee

- **Dr. Yu-Kaung CHANG, Professor**  
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  - **Dr. Shu-Yii WU, Professor**  
Feng Chia University, Taichung, Taiwan
- More Committee Members may join in the future.*

## Topical Areas

### 1. Science and Engineering of Fluidized-Bed and Multi-Phase Reactor

**Keywords:** hydrodynamics, solid behavior, heat and mass transfer, bubble column reactor, gas-liquid-solid three-phase reactor, gas-solid reactor, micro-reactor, multi-phase chemical reactions, biological and biochemical reactions, modeling and simulation, reactor design and scale-up, demonstration plants/processes, process safety and control, etc.

### 2. Energy & Environmental Chemical Engineering

**Keywords:** combustion, gasification, reforming, pyrolysis, upgrading, drying, hydrogen, biomass, biomass-derived liquid fuels, coal, wastes, heat recovery/storage, heat pump, energy materials, catalysts, fuel cell, exergy analysis, energy saving, emission control, environmental protection, etc.

*If you are not sure whether your topic is relevant to the scope of this conference, please send your inquiry to the Conference Executive Secretary (Dr. Keng-Tung Wu, [wukt@nchu.edu.tw](mailto:wukt@nchu.edu.tw)). Thank you very much.*

## Important Dates

- May 15, 2012** Deadline for receipt of **one-page abstract**. Use the **online submission system** (<http://www.ascon2012.org.tw>) to register and submit your abstracts.
- Jun. 15, 2012** Notice to the corresponding author for **acceptance** of each paper with instructions for preparation of camera-ready manuscript to be published in the proceedings.
- Sep. 03, 2012** Deadline for receipt of **camera-reader manuscript (the final version)** for the proceedings to the secretary of the conference.
- Nov. 11, 2012** Publication of the Proceedings.

## Publication

All of the papers accepted for presentation at the conference will be published in the proceedings of the conference, which will be distributed at the conference site. Oral and poster presentations will be considered equally in the publishing.

The authors are encouraged to submit their papers for consideration

to publish in an **ASCON-IEEChE Special Issue of Journal of Taiwan Institute of Chemical Engineers** after peer review processes. Details will be informed to authors in the future.

## Registration fee

	Before 31 July, 2012	After 31 July, 2012
Participant	NT\$ 10,000 (US\$ 350)	NT\$ 12,500 (US\$ 440)
Student	NT\$ 6,000 (US\$ 210)	NT\$ 7,500 (US\$ 260)
Accompanying	Gratis	

*Registration fee includes the technical program, one copy of conference proceedings, local transportation and technical visit (social events), but not accommodation and insurance fees.*

## Time Schedule (tentative)

- November 11, 2012** 14:00 – 18:00 Registration  
18:00 – 20:00 Welcome Reception
- November 12, 2012** 08:30 – 17:00 Registration  
09:00 – 12:00 Technical Sessions  
13:00 – 17:00 Technical Visit & Discussion (Social Events)  
18:00 – 20:00 Banquet
- November 13, 2012** 08:30 – 17:00 Registration  
09:00 – 17:00 Technical Sessions  
18:00 – 20:00 Farewell Party
- November 14, 2012** 09:00 – 20:00 Technical Visit & Discussion (Social Events)

*Free transportation from the airport to the conference venue (Nov. 11), and return from the conference venue to Taipei (Nov. 14) or to the airport (Nov. 15) at some special time will be provided to all participants and accompanying persons. More details will be announced to all participants in the future.*

## Abstract submission

Every submitter is requested to submit the abstract using the **online** submission system at <http://www.ascon2012.org.tw> with the following information:

1. Title of paper
2. Name(s) of the author(s)
3. Name of corresponding author
4. Affiliation of corresponding author
5. Physical address of corresponding author
  - 5.1. Number
  - 5.2. Street
  - 5.3. City Street
  - 5.4. Postal code
  - 5.5. Country
  - 5.6. Phone number
  - 5.7. Facsimile (if available)
  - 5.8. E-mail address
6. Preferred type of presentation (Oral or Poster)
7. If you wish to publish your paper in the *ASCON-IEEChE Special Issue of Journal of Taiwan Institute of Chemical Engineers*, please indicate it.
8. Abstract of paper (within about 200 words)

## Contact

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PO Box 12-414, Zhongli 32099, Taiwan, ROC  
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## About Hualien, Taiwan



**Hualien County** is gifted with its distinctive geographical locations, beautiful landscapes and rich humanistic atmospheres that mark its own uniqueness. The future plan will continue to focus on three sustainable concepts of environment, society, and economy, and develop five core industries including tourism. All these plans aim to cultivate Hualien, so that government policies may carry out into future.

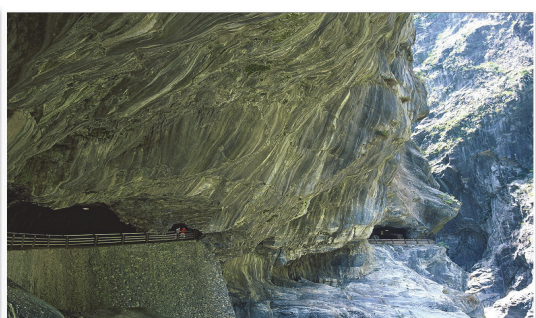
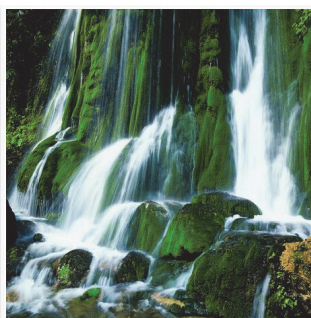
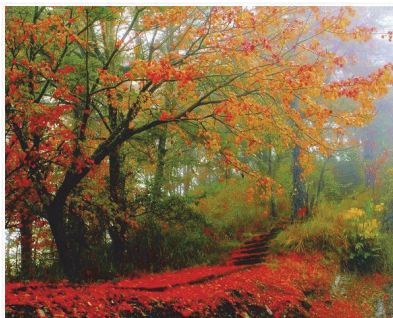
In recent years, the Executive Yuan has launched on "Eastern Taiwan Sustainable Development Plan," with its goals similar to those of current plan-in-process, "Glamorous 2010 - Creating Hualien's Sustainable Development Plan." Eastern Taiwan Sustainable Development Plan has been ratified and processed since March, 2007, and our county government has joined in proposing plans to carry out the project.

Beautiful Hualien County is like a fat and short silkworm crawling in yam-shaped Taiwan, and is situated in eastern Taiwan. Hualien, facing the immense Pacific Ocean on the east and leaning against the steep and majestic Central Mountain Range on the west, borders Taichung County, Nantou County and Kaohsiung County. The northern border is between the Dajhuoshui River and Yi-lan County, and its

southern side joins part of the Coastal Range with Taitung County.

Hualien County stretches around 137.5 km from north to south, with its longest width being 43 km long from east to west, and its narrowest east-west width is 27 km long. Hualien County is 4628.5714 sq. km and occupies one eighth of the total area of Taiwan. It is also the largest county of the 21 counties and cities in Taiwan. It has a population of about 345,521 October 2006, and its population density is 74.64 persons sq. km.

Although the total area of Hualien County is the largest in Taiwan, only 7% of land is plain that is inhabited by people. The rest is occupied by rivers (6%), and mountains (87%). The distribution of mountains, rivers, and plains are as followed: the mountains are composed of the Central Mountain Range in the west and the Coastal Mountains in the east. The Central Mountain Range is like the backbone of Taiwan, running from the north of the country to the south. It leans toward the east and the mountains in the range are most located within Hualien County and its border. Hence, the mountains and hills facing the east are of great proportion. Unlike western Taiwan where the mountains stretch into plains, the coastal mountains are erect right next to the Pacific Ocean and extend into Taitung County occupying a massive portion of the land. The main rivers within Hualien County are the Hualien River, Xiuguluan River, and its branches. The plains stretch along the valleys between the Central Mountain Range and the Coastal Mountains. The width of the plains extends around 3 to 6 kilometers. Due to the constraint of its landscape, the citizens of Hualien County reside mostly on the alluvial fans of valley plains. Alluvial fans occur when the river enters the plain from the mountain area; the slower flowing speed causes the sedimentation of sands and gravels. As the sediments extend, they forms a fan shaped deposit known as an alluvial fan. Alluvial fans are often flat with rich soil, and are suitable for human habitation. Hence, they are often populated.



Courtesy of Hualien County Government

March 30, 2012