

# **4<sup>th</sup> International Science, Social Science, Engineering and Energy Conference 2012**

**December 11 – 14, 2012**

**Golden Beach Cha-Am Hotel, Petchaburi, Thailand**

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## **1. INTRODUCTION**

In 2008, the 1<sup>st</sup> International Science, Social Science, Engineering and Energy Conference (I-SEEC 2008) was held in Nongkhai Province, Thailand. Later, in the year 2010, the 2<sup>nd</sup> International Science, Social Science, Engineering and Energy Conference (I-SEEC 2010) was held in Nakhon Phanom Province, also in Thailand. Both I-SEEC conferences were hosted by Rajamangala University of Technology Isan and were under the supervision of Dr. Nithiroth Pornsuwancharoen, who was the chairperson.

Scientists, engineers and researchers from numerous countries assembled in these conferences to discuss, and share ideas and visions for the future of Science, Social Science, Engineering and Energy. The purpose of the conferences was to engage worldwide communities in a collective effort to efficiently utilize conventional and new applications.

The 3<sup>rd</sup> International Science, Social Science, Engineering and Energy Conference (I-SEEC 2011) was held in 2011 at Nakorn Pathom Province, Thailand. This conference was hosted by Nakorn Pathom Rajabhat University with a similar purpose.

This year (2012), Kasem Bundit University has been honored to host the 4<sup>th</sup> International Science, Social Science, Engineering and Energy Conference (I-SEEC 2012) in Petchaburi. This international conference will also be co-hosted by Udon Thani Rajabhat University.

## **2. RATIONALE**

Research is considered to be of utmost importance to foster development, especially in the academic world. It is widely accepted that universities must pay attention to research by providing opportunities to university instructors to produce research works, alongside teaching. Research products are also indicators of the expertise of the university personnel. However, there is a great need to have venues to allow researchers to present their works, nationally and internationally. This is the reason why Kasem Bundit University is determined to host the I-SEEC 2012.

With the fact that Kasem Bundit University has been supporting its Faculty of Science and Technology, the faculty members have been involved in several conferences, yielding to experience related to the advancement of academic research in various areas. For the past 8 years (2004 – 2012), this advancement has led Thailand to “Knowledge-based Society”, which has steered the country to:

- 1) National Innovation System
- 2) Human Resources
- 3) Core Technologies
- 4) Enabling Environment

I-SEEC is directly involved with “Core Technologies”, which can be broken down to:

- 1) Information and Communication Technology – allowing the government, private and public sectors to communicate using advanced technology such as E-Commerce, E-Education, E-Society, E-Industry and E-Government, etc.
- 2) Material Technology – allowing the construction of advanced products using technology so that the products are efficient and of low costs
- 3) Biotechnology – a technology that stems from different sciences such as biology, chemistry, engineering, etc.
- 4) Nanotechnology – a technology that deals with building equipment in a nanometer scale

The above “Core Technologies” are considered a very innovative advancement that is crucial in “Scientific Knowledge,” especially in the fields of biology, physics, chemistry, biochemistry, mathematics and engineering. These fields always involve computerized technology.

Therefore, Kasem Bundit University has placed importance in conferences that raise benefits to researchers, academic personnel and conference participants. This is the reason why Kasem Bundit University decided to host I-SEEC 2012, which is respected university-wide for its strength and competence.

### **3. OBJECTIVES**

1. To offer a venue for academic instructors, students and/or researchers to share their works in a national and an international levels.
2. To encourage and promote university instructors to realize the importance of research and research sharing.
3. To support and build networking of universities regarding academic and research works, both nationally and internationally.
4. To publish academic and research works.

### **4. EVENTS**

1. Speeches by Keynote lecturers
2. Presentations by research presenters
3. Poster Presentations by participants

### **5. AREAS OF INTEREST**

1. Chemical Science and Engineering
2. Computer Science and Engineering
3. Electronics and Telecommunication Engineering
4. Energy and Related Environment
5. Optical Science and Technology
6. Physics and Materials Science
7. Social Science and Management
8. Water Resources Engineering and Management, including related areas

9. Agricultural Science, Engineering and related areas
10. Geographical Information Science (GIS)
11. Others

## **6. EXPECTED BENEFITS**

1. To offer an international platform for researchers to participate in order to share knowledge that can increase innovative products.
2. To promote the recognition of academic standard of Kasem Bundit University at a national and an international levels.
3. To raise incentives for university instructors, researchers of Kasem Bundit University to produce research-related works while teaching students.
4. To expand networking of research at a national and an international levels.
5. To share responsibilities for leading Thailand to “Knowledge-based Society”.
6. To allow research works to be considered for academic positions.

## **7. TARGET GROUPS**

Academic personnel, researchers, instructors, students and general participants, both nationally and internationally, approximately 100 – 150 people.

## **8. DATES AND FEES**

Dates: December 11 – 14, 2012

Fees: Foreign Participant ..... 350 USD or 10,850 THB  
 Local Participant .....7,750 THB

Remark: 1 USD = 31 THB (on April 10, 2012)

## **9. ACCOMMODATION**

The Golden Beach Cha-Am Hotel  
 208/14 Ruamjit-Beach Road  
 Cha-Am, Petchaburi 76120  
 Thailand  
 Tel: +66 032 433 833 (Auto 8 line)  
 Fax: +66 032 433 841

## **10. CONFERENCE INSTITUTES**

1. Faculty of Science and Technology (Kasem Bundit University)
2. Faculty of Technology (Udon Thani Rajabhat University)
3. Faculty of Engineering (Kasem Bundit University)
4. Faculty of Business Administration, Department of Business Computer, International Program (Kasem Bundit University)

5. Faculty of Liberal Arts, Department of Hotel and Tourism Studies (Kasem Bundit University)
6. The Research Center (Kasem Bundit University)
7. The Development Center for Innovation of Learning and Instruction (Kasem Bundit University)
8. The Technology Education Development Center (Kasem Bundit University)
9. The Computing and Technology Center (Kasem Bundit University)
10. The Public Relations Department (Kasem Bundit University)

## **11. CONTACT INFORMATION**

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### **Coordinators**

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