

PATT Professional Development Learning Sessions 2012

All PATT special interest sessions will be held at the Renaissance Hotel.

Thursday, March 15, 2012

12:00pm – 2:00pm

International Luncheon - *Featured Speaker: Professor Jianjun Gu*

This event is held at the Renaissance Hotel.

This is a ticketed event; ticket is included in PATT registration package

2:00pm – 2:50pm

Developing Students as Persons Through D&T: A Singapore Vision

Learn about emerging Singapore D&T practices within a general education that is influenced by the works of eminent design education researchers.

Presenter: Chia Soo Chin and Jason Tan Seng Chong (Singapore)

3:00pm – 3:50pm

The Nature of Education Science in Technology Education

This short research is concerning relations between technology education, educational sciences, mathematics, and science by using descriptive content analysis.

Presenter: Matti Lindh (Finland)

4:00pm – 4:50pm

Robotics and Automation in Primary Teacher Education

This presentation describes students' attitudes towards robotics and their methods of learning in designing, making, and programming a "flat surface robot" in the Department of Educational Sciences and Teacher Education at the University of in Finland.

Presenter: Jaako Nykanen (Finland)

5:30pm – 6:30pm

PATT Reception

This event is held at the Renaissance Hotel; included with PATT registration package

Friday, March 16, 2012

11:00am – 11:50am

Using Cognitive, Knowledge, and Problem-Solving Taxonomies in Technology and Engineering Education

Four different types of taxonomies related to teaching technology and engineering will be discussed: Bloom's famous taxonomy, types of knowledge taxonomy, problem solving taxonomy, and taxonomy of technological knowledge.

Presenter: Moshe Barak (Israel)

2:00pm – 2:50pm

How has the “Human Being and Technology” Cross-curricular Theme Been Realized in the Finnish schools?

A new cross-curricular theme “Human Being and Technology” was launched in the 2004 National Curriculum Framework in Finland. The paper will discuss the realization of technology education as a cross-curricular theme from the point of view of the ninth graders.

Presenters: Esa-Matti Järvinen and Aki Rasinen (Finland)

3:00pm – 3:50pm

Undergraduate Students’ Attitudes toward Energy Technology

Based on a survey conducted in Taiwan, undergraduate students’ attitudes toward energy technology will be described and discussed in this presentation.

Presenters: Lung-Sheng (Steven) Lee

4:00pm – 4:50pm

High School Students’ Image of and Attitude Towards Engineering

In an international survey using concept maps and questionnaires, high school students’ image of and attitude towards engineering have been investigated.

Presenters: Marc J. de Vries (Netherlands)

Saturday, March 17, 2012

9:00am – 9:50am

The Stimulating Effects of Science Fiction and Films

The purpose of this presentation will try to explore the stimulating effects of science fiction and films on product design of middle school students, and to analyze the differences in product design improvement ideas of middle school students with different cognitive styles generated during the science fiction and films learning activity.

Presenter: Kuen-Yi Lin (Taiwan)

10:00am – 10:50am

Positioning Technology Education in the Curriculum

A recent publication on the position of technology education in the school curriculum offers many relevant insights into how to make TE a strong component in schools.

Presenter: Marc J. de Vries (Netherlands)