Keynote Speakers

Prof. Dr. Stephen B. Seidman
College of Science and Engineering
Texas State University

Assoc. Prof. Dr. Lyn Brodie
Faculty of Health, Engineering and Sciences
University of Southern Queensland

Prof. Dr. Mohd Majid Konting
Higher Education Leadership Academy (AKEPT)
Ministry of Education Malaysia

3 DAYS CONFERENCE FROM
11.04.2014
13.04.2014

RIVERSIDE MAJESTIC HOTEL
KUCHING SARAWAK, MALAYSIA

OFFICIATED BY CHIEF MINISTER OF SARAWAK

cit@utm.my / laticerced2014@gmail.com
utmlead.utm.my/latice_rceerhed2014
### Programme Schedule

**DAY 1 / 11 APRIL 2014 (FRIDAY)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:15 AM - 9:00 AM</td>
<td>REGISTRATION</td>
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<tr>
<td>9:00 AM - 9:10 AM</td>
<td>WELCOMING SPEECH</td>
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</table>
| Assoc. Prof. Dr. Nazihah Ahmad Azli  
LaTICE RCEE RHED 2014 Organizing Committee Chair |
| 9:10 AM - 9:15 AM | SPEECH BY                                                               |
| Assoc. Prof. Dr. Arnold Pears  
Chair of Special Technical Community (STC) for Education, IEEE Computer Society |
| 9:15 AM - 9:45 AM | INVITED SPEECH                                                          |
| Prof. Dr. Mohd Majid Konting  
Director, Higher Education Leadership Academy (AKCEPT)  
Ministry of Education Malaysia  
Title: Higher Education Staff Development and Research in Teaching and Learning: Malaysian Perspective |
| 9:45 AM - 10:00 AM | PHOTO SESSION                                                           |
| 10:00 AM - 10:30 AM | COFFEE BREAK                                                            |

**PARALLEL SESSION I**  
10:30 AM - 12:00 PM  
Paper Track: Research Papers  
30 minutes / paper

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<thead>
<tr>
<th>Room 1</th>
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<tbody>
<tr>
<td><strong>COMPUTING EDUCATION</strong></td>
<td><strong>ENGINEERING EDUCATION</strong></td>
<td><strong>HIGHER EDUCATION</strong></td>
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<tr>
<td>Chairperson: Prof. Dr. Anders Berglund</td>
<td>Chairperson: Dr. Norasykin Mohd Zaid</td>
<td>Chairperson: Assoc. Prof. Dr. Yudariah Mohammad Yusof</td>
</tr>
</tbody>
</table>
| Anne-Kathrin Peters, Anna Eckerdal, Anders Berglund and Arnold Pears  
First Year Computer Science and IT Students’ Experience of Participation in the Discipline  
#194  
Lasse Hakulinen and Tapio Assinen  
The Effect of Gamification on Students with Different Achievement Goal Orientations  
#179  
Tony Assadi and Sue Chard  
Computers in Homes (CiH): Enabling community access to internet and ICT?  
#192 | Wael Elleithy and Tack Leong Lau  
Sustainable Construction - The Use of Case Studies in Civil Engineering Education  
#126  
Habibah Norehan Haron, Hafizah Hanin, Noor Hannah Hussain, Khairiyah Radin Salim and Rosmah Ali  
Confirming Self-Regulation Construct Items for Students Learning Statics  
#173 | Mei-Wen Chen, Cheing-Chih Wu and Greg C. Lee  
What are Teachers Concerned About in Implementing Digital Collaboration?  
#189  
Amirah Dayana Azian, Bahanuddin Aris and Khairiyah Mohd Yusof  
The Understanding and Practices of TRIZ by TRIZ Experts in the Industry: A Malaysian review  
#251 |

12:00 PM - 2:00 PM  
LUNCH & FRIDAY PRAYER
### PARALLEL SESSION II

**2:00 PM - 3:30 PM**  
Paper Track: Work in progress  
20 minutes / paper

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<thead>
<tr>
<th>Room 1</th>
<th>COMPUTING EDUCATION</th>
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<th>Room 3</th>
<th>HIGHER EDUCATION</th>
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<tbody>
<tr>
<td>Chairperson: Prof. Dr. Zaidatun Tasir</td>
<td>Chairperson: Assoc. Prof. Dr. Khairiyah Mohd. Yusof</td>
<td>Chairperson: Dr. Fadzil Daud</td>
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<tr>
<td>Norhasyimah Hamzah and Jamaluddin Harun</td>
<td>Azri Azman, Morina Abdulah and Aivaludin Mohamed Shaharoun</td>
<td>Huzaimi Hamid, Mariya Puteh and Shamsul Sarip</td>
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<tr>
<td>Investigating Students’ Reflective Thinking Level in Online Discussion Forum</td>
<td>Review Current Practical Skills Assessment In Machining Course Based On Parameter Domain</td>
<td>The Implementation of Pneumatic Training Instrument in Higher Learning Institutions: Analysis of Two Institutions</td>
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<td>#145</td>
<td>#147</td>
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<td>Robert Hans, Daniel Chuaene, Craven Leotta and Vivian Masuku</td>
<td>Mohd Fahmi Adnan, Mohd Fadzil Daud and Muhammad Suki Saud</td>
<td>Nor Haniza Sarmin, Fatin Aliah Phang, Siti Zainah Mohd Roffi, Siti Norlailahidayu Anuar Zaini and Naemie Salim</td>
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<td>Using A Web-Based Application To Assist Project Management Students Learn Financial Analysis Methods</td>
<td>Conceptual Framework for Development of an Instrument to Measure Student Machining Skill on CNC Machining Technology Course</td>
<td>Making Students’ Thinking Explicit, Learning what they know about Functions versus Students</td>
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<td>#157</td>
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<td>A Recommended IGCSE Curriculum for K-12 Education</td>
<td>Conceptual Framework for Development of an Instrument to Measure Student Machining Skill on CNC Machining Technology Course</td>
<td>Making Students’ Thinking Explicit, Learning what they know about Functions versus Students</td>
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<td>Ismat Altmour and Aletta Nylén</td>
<td>Hadijah Jaafri, Narina A. Samah and Lokman Mohd Tahir</td>
<td>Adjah Naqkiah Mazlan, Jamaluddin Harun and Zainal Abdin Zainuddin</td>
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<td>Impact of Cultural and Language Background on Learning Computer Science Concepts</td>
<td>Conceptual Framework for Development of an Instrument to Measure Student Machining Skill on CNC Machining Technology Course</td>
<td>Problems in Learning Movement Skills among Students in Higher Education</td>
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### PARALLEL SESSION III

**4:00 PM - 5:20 PM**  
Paper Track: Practice Papers  
20 minutes / paper

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<th>Room 1</th>
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<tbody>
<tr>
<td>Chairperson: Dr. Neena Thota</td>
<td>Chairperson: Assoc. Prof. Dr. Zaleha Ismail</td>
<td>Chairperson: Dr. Roselaibni Abdul Rahman</td>
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<td>Lassi Hakulinen, Petri Ihantola, Lasse Hakulinen and Ari Karhonen</td>
<td>Mohd Kamsah and Rohaya Talib</td>
<td>Hismamuddin Hashim and Zaidatun Tasir</td>
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<td>#151</td>
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<td>Nurbiha A Shukor, Zaidatun Tasir, Norasykin Mohd Zaid and Norazlina Ahmad</td>
<td>Norazwina Zainol</td>
<td>Arnold Pears, Roger Hadgraft, Margaret Hamilton and James Harland</td>
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<tr>
<td>The Design of a Computer-supported Collaborative Learning Environment that Promotes Interaction</td>
<td>Industry Involvement in Undergraduate Research Project for Chemical Engineering (Biotechnology) Programme</td>
<td>Four Food-forward Principles Enhance Students’ Perception of Feedback as Meaningful</td>
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<td>Mohd Hishamuddin Abdul Rahman, Norashflandy Widyasa and Nor Oddyana Abd Halim</td>
<td>Azmin Ariffin, Noorhan Abu-Hassan and Kamiah Radin Salim</td>
<td>C. P. Liew and Maria Putteh</td>
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<td>#183</td>
<td>#142</td>
<td>#249</td>
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<td>Facebook as a Tool: Exploring the use of Facebook in Teaching and Learning from a pilot study</td>
<td>Review of Learning Models for Production Based Education Training in Technical Education</td>
<td>“The Beauty Of I-Bonding” Website Development Based On Needham Five Phase Constructivism Model</td>
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### 3:30 PM - 4:00 PM
TEA BREAK

### 7:30 PM - 10:30 PM

OPENING CEREMONY & CONFERENCE DINNER  
Officiated by the Chief Minister of Sarawak  
Dress Code: Lounge Suit / Baju Kurung / Kebaya
DAY 2 / 12 APRIL 2014 (SATURDAY)

8:15 AM - 9:00 AM  LATE REGISTRATION

9:00 AM - 10:00 AM  KEYNOTE ADDRESS
Speaker: Prof. Dr. Stephen B. Seidman
College of Science and Engineering, Texas State University
Title: Computing Accreditation: The Emergence of a Profession
Chairperson: Dr. Roselainy Abdul Rahman

10:00 AM - 10:30 AM  COFFEE BREAK

PARALLEL SESSION IV
10:30 AM - 12:30 PM
Paper Track: Work in progress
Papers
20 minutes / paper

Room 1  COMPUTING EDUCATION
Chairperson: Prof. Dr. Greg Lee

Nadia Persazzadeh, Rosmah Ali and Norzila Megat Mohd Zaharuddin
An Initial Study on the Technological Aspects of E-learning System in Malaysian Context #159

Nurul Farhana Jumaat and Zaidatun Tasir
Instructional Scaffolding in Online Learning Environment: A Meta-Analysis #170

Danakorn Nincarean, Eh Phon and Zaidatun Tasir
Collaborative Augmented Reality in Education: A review #184

Room 2  ENGINEERING EDUCATION
Chairperson: Dr. Habibah Norelaini Haron

Norhazren Izatie Mohd and Khorun Nia Ali
Addressing the Needs of Gaming Approach in Hazard Identification Training #250

Sohella Firozian, Zaleha Ismail, Roselainy Abdul Rahman, Yustarjah Mohamad Yusof, Fariba Firozian and Hamidreza Kashefi
Engineers’ and Engineering Undergraduates’ Mathematical Competency #134

Nur Ayunis Shamsul Bahri, Nazihah Azli and Nairina Abu Sairah
An Exploratory Study: Problem-solving process in Problem/Project Based Laboratory (PBLab) course #160

Room 3  HIGHER EDUCATION
Chairperson: Assoc. Prof. Dr. Zaleha Ismail

Nur Jannah Jamil and Zaidatun Tasir
Students’ Social Presence in Online Learning System #155

Suhaizal Hashim and Jamalludin Harun
Effects of CSCL Learning Approach for Students’ Knowledge Construction Process in School Based Assessment (SBA) Environment. #148

Daniel Chuene, Craven Lepota and Robert Hans
Using E-Readers In Education: Challenges and opportunities #125

Danakorn Nincarean, Eh Phon and Zaidatun Tasir
Collaborative Augmented Reality In Education: A review

12:30 PM - 2:00 PM  LUNCH

2:00 PM - 3:00 PM  KEYNOTE ADDRESS
Speaker: Assoc. Prof. Dr. Lyn Brodie
Faculty of Health, Engineering and Sciences, University of Southern Queensland
Title: Quality Teaching and Learning in Engineering Education: A Research Based Approach
Chairperson: Assoc. Prof. Dr. Nazihah Ahmad Azli

3:00 PM - 3:30 PM  TEA BREAK

3:30 PM - 4:30 PM  POSTER SESSION
Ja-Ling Koh, Te-Chin Chu and Greg C. Lee
Supporting In-class Learning with Asynchronous and Autonomous Viewing of Near Real-time Lecture Videos #144

Nurul Izzanina Adnan and Zaidatun Tasir
Online Social Learning Model #154

Siti Khadijah Mohamad and Zaidatun Tasir
Pattern of Reflection in Learning For Predicting Students’ Performance #168

Anders Berglund, Arnold Pears, Ali Alagla, Nimir Salih and Mohamed Sherafy
Learning to develop learning and teaching of CS - a collaborative example #187

Nurul Izzati Hamzah and Norasykin Mohd Zaid
The Growth of Applied Knowledge with Integration of Group Activity Possess Elements of Critical Thinking #200
**DAY 2 / 12 APRIL 2014 (SATURDAY)**

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<tbody>
<tr>
<td>8:00 PM - 10:00 PM</td>
<td>RIVER CRUISE DINNER</td>
<td>Neena Thota: Programming Course Design: Phenomenographic approach to learning and teaching</td>
<td>Nur Amira Syaffilin Sabtu, Nor Hasniza Ibrahim, Johari Surif and Abd Halim Abdullah: Comparison of Pedagogical Content Knowledge Between Expert and Novice Lecturers in Teaching and Learning Process</td>
<td>Hasnah Mohamed, Baharuddin Aris and Zaidatun Tasir: Effect of Educational Software on Student’s Achievement Based on Cognitive Styles</td>
</tr>
<tr>
<td>11:00 AM - 12:00 PM</td>
<td>CLOSING &amp; COFFEE BREAK</td>
<td>Others: RM150.00 per pax</td>
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<td>12:00 PM - 2:00 PM</td>
<td>LUNCH</td>
<td>Others: RM70.00 per pax</td>
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<td>2:00 PM - 5:00 PM</td>
<td>CONFERENCE TOUR</td>
<td>Others: RM70.00 per pax</td>
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**DAY 3 / 13 APRIL 2014 (SUNDAY)**

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<th>Room 2</th>
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<tr>
<td>8:30 AM - 9:00 AM</td>
<td>Announcement of LaTICE 2015 Chairs and Venue</td>
<td>Norsyarizan Shaht, Rosealieny Abdul Rahman and Noor Hamidah Hussain: Student Approach to Learning in Programming Courses among Industrial Mechatronics Engineering Technology Students</td>
<td>Norah Md Noor, Munirah Ain and Nurul Izzati Hamican: Video Based Learning Embedded With Cognitive Load Theory: Visual, Auditory And Kinaesthetic Learners Perspectives</td>
<td>Norah Md Noor, Jamalludin Harun and Baharuddin Aris: Application of Pedagogical and Andragogical Model in Web-Based Learning Instruction among Non Major Computer Science Students Learning Programming</td>
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