# Pre-Conference City Tour/Reception

Feb 6-7, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00</td>
<td>Registration desk opens</td>
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<tr>
<td>15:00</td>
<td>Pre-conference City Tour</td>
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<td>15:30</td>
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<td>17:30</td>
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<tr>
<td>18:00</td>
<td>Welcome Reception</td>
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<td>19:00</td>
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<tr>
<td>Time</td>
<td>Tuesday</td>
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<td>-------------------------------------------------------------------------</td>
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<tr>
<td>9:00</td>
<td>Opening Ceremony&lt;br&gt;Special keynotes&lt;br&gt;Welcome address</td>
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<td>10:00</td>
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<tr>
<td>10:30</td>
<td>Break</td>
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<tr>
<td>11:00</td>
<td>(3) Plenary 1&lt;br&gt;Paper presentations&lt;br&gt;Auditorium (2fl), Lib (9fl), CLab(10fl)</td>
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<tr>
<td>11:30</td>
<td>Main Auditorium (2fl)</td>
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<td>12:00</td>
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<tr>
<td>12:30</td>
<td>Lunch</td>
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<td>13:30</td>
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<tr>
<td>14:00</td>
<td>(4) Open house&lt;br&gt;School Lobby (1 fl)</td>
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<tr>
<td>14:30</td>
<td>(5A, 5B) Poster &amp; Demos&lt;br&gt;Gymnasium (2 fl)</td>
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<td>15:00</td>
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<td>15:30</td>
<td>Break</td>
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<td>18:00</td>
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<tr>
<td>Evening</td>
<td>Dinner at Mr. Paron’s House</td>
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## Post Conference Fieldtrip

**Feb 6-7, 2016**

<table>
<thead>
<tr>
<th>Saturday</th>
<th>Sunday</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Depart Hotel Lobby</td>
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<tr>
<td>8:30</td>
<td>Presentation &quot;Constructionism: Learning as means for sustainable development&quot;</td>
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<tr>
<td>9:00</td>
<td>Ban Sankhampan School visit</td>
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<tr>
<td>9:30</td>
<td>Walking tour. Visiting various village projects.</td>
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<tr>
<td>10:00</td>
<td>Lunch</td>
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<tr>
<td>10:30</td>
<td>Lunch</td>
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<tr>
<td>11:00</td>
<td>Visit Bor Sang (A traditional arts and crafts center)</td>
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<tr>
<td>11:30</td>
<td>Discussion</td>
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<tr>
<td>12:00</td>
<td>Travel to Ban Samkha village in Lumpang Province</td>
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<tr>
<td>12:30</td>
<td>Depart for Lumpang airport</td>
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<tr>
<td>13:00</td>
<td>Flight check-in and light supper</td>
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<tr>
<td>15:00</td>
<td>Arrive Ban Samkha and check-in (village home-stay)</td>
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<tr>
<td>16:00</td>
<td>Flight back to Bangkok (Suvarnabhumi airport)</td>
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<tr>
<td>18:00</td>
<td>Dinner and welcoming ceremony by the villagers</td>
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<td>19:00</td>
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</tbody>
</table>
The conference will be held at DSIL building. (DSIL stands for Darunsikkhalai School for Innovative Learning.) It is the 14 floors building with all facilities located inside the building. All the program will be conduct at different floors. Here is some directory for presentation location as well as some interesting activities arranged by DSIL students, teachers and parents throughout the conference week. Please enjoy your time and make yourself comfortable. If you need help, have any questions or need translation for your interesting conversation, please don’t hesitate to ask our staffs or rescuers team. © Welcome to Bangkok, Thailand!

<table>
<thead>
<tr>
<th>Floor</th>
<th>Room Number</th>
<th>Activities</th>
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</thead>
<tbody>
<tr>
<td>10th</td>
<td>Constructionism Lab 1 and 2</td>
<td>Paper presentation Room 3 Demos and workshops</td>
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<tr>
<td>10th</td>
<td>DSIL FabLab@School</td>
<td>Workshop Room 4 Feel free to check out our FabLab.</td>
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<tr>
<td>9th</td>
<td>Library</td>
<td>Paper presentation Room 2 Demos and workshops</td>
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<tr>
<td>8th</td>
<td>Classrooms</td>
<td>Workshops and Open house</td>
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<tr>
<td>7th</td>
<td>Classrooms</td>
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<tr>
<td>6th</td>
<td>Classrooms</td>
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<tr>
<td>5th</td>
<td>Cafeteria and Food lab</td>
<td>Lunch and Thai arts and crafts activities Small futsal field with panoramic view of Bangmod area.</td>
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<tr>
<td>4th</td>
<td>Fitness and Performing art classroom</td>
<td>Not opened during conference week.</td>
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<tr>
<td>2nd</td>
<td>Main Auditorium</td>
<td>Plenary session Opening and closing</td>
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<tr>
<td>2nd</td>
<td>Gymnasium and Open Space</td>
<td>Tea and coffee break and Poster session * CCTV for plenary session</td>
</tr>
<tr>
<td>1st</td>
<td>DSIL Hall</td>
<td>Registration Thailand Constructionism Expo</td>
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</tbody>
</table>
Directory for Thailand Constructionism Expo
(Tuesday 2\textsuperscript{nd} February, 2016.)

Schedule

13:30-13:50  Introduction to Lighthouse Project and Candle Light Project (Nalin)

13:50-14:05  There will be just one round of approximately an hour presentation in each area. You may choose to stay in one area or move around. There are 3 different groups of presentations.

14:05 – 15:00  Demo / Presentation

15:00- 15:30  Q&A and Discussion

<table>
<thead>
<tr>
<th>Groups</th>
<th>Moderator</th>
<th>Presentation / Demo and Location</th>
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<tbody>
<tr>
<td><strong>Group A : Schools that learn</strong></td>
<td>Nalin Tutiyaphuangprasert</td>
<td>6\textsuperscript{th} – 8\textsuperscript{th} floor</td>
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<tr>
<td>Different application of</td>
<td></td>
<td>- DSIL Science classroom, Biology Lab (6\textsuperscript{th} fl.)</td>
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<tr>
<td>Constructionism in different</td>
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<td>- Engineering Project (7\textsuperscript{th}-8\textsuperscript{th} grade) Room805-806</td>
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<tr>
<td>school contexts throughout</td>
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<td>- Young Constructionist (1\textsuperscript{st} and 2\textsuperscript{nd} grades) Room706</td>
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<tr>
<td>Thailand.</td>
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<td>- Ban Sankampang School in Chiang Mai Room 707</td>
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<td>- Ban Kha Yang School (Hill tribe school) Room 707</td>
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<td>- Wat Kien Kate Room 707</td>
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<td>- Koh Yao School District Room 707</td>
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<tr>
<td>14:05 -15:00  Demo / Presentation in classrooms</td>
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<td>6\textsuperscript{th} – 8\textsuperscript{th} floor</td>
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<tr>
<td>15:00-15:30  Q&amp;A Discussion</td>
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<td>- DSIL Science classroom, Biology Lab (6\textsuperscript{th} fl.)</td>
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<td>- Engineering Project (7\textsuperscript{th}-8\textsuperscript{th} grade) Room805-806</td>
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<td>- Wat Kien Kate Room 707</td>
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<td>- Koh Yao School District Room 707</td>
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| **Group B: Villages that learn**| Arnan Sipitakiat         | Booth on 1\textsuperscript{st} floor                                 |
| Constructionism applied in      |                        | - Ban Lim Thong Constructionist Village from Buriram Province        |
| informal learning to improve    |                        | - Ban Samkha Constructionist Village from Lampang Province           |
| quality of life and sustainable |                        |                                                                      |
| development.                    |                        |                                                                      |
| 14:05 -15:00  Booth presentation |                        |                                                                      |
| 15:00-15:30  Q&A Discussion at the main stage |                        |                                                                      |

| **Group C: Business and**       | Tawan Tantikul         | Booth on 1\textsuperscript{st} floor                                 |
| **Industries that learn**       |                        | - Siam Cement Groups Constructionist Practice Schools (All business units) |
| Constructionism applied in      |                        | - Petrochemical Industry Constructionist Practice School            |
| professional development        |                        | - Mabtaput vocational school                                         |
| programs in different           |                        |                                                                      |
| business units which reduce     |                        |                                                                      |
| cost and increase revenue.      |                        |                                                                      |
| Quality improvement by          |                        |                                                                      |
| empowering innovative culture   |                        |                                                                      |
| in organization.                |                        |                                                                      |
| 14:05 -15:00  Booth presentation |                        |                                                                      |
| 15:00-15:30  Q&A Discussion at the committee’s meeting room |                        |                                                                      |

- F -
Conference Program

Tuesday, February 2nd

09:00 - 09:15 Opening Ceremony
LOCATION: Main Auditorium (2 fl)

09:15 - 09:45 Session 1: Special Keynote
Yongyuth Yuthavong
Sparks from the Spirit: Role of Learning in Constructing and Using Knowledge

09:45 - 10:00 Welcome Address & Conference Introduction

10:00 - 10:30 Session 2: Opening Keynote
Paron Israsena
Constructionism the Thailand Way

10:30 - 11:00 Break
Location: 2nd fl open space

11:00 - 12:30 Session 3: Plenary 1
Chair: Arnan Sipitakiat
LOCATION: Main Auditorium (2 fl)

11:00 Nalin Tutiayaphuengprasert and Yuphin Trangkatarn
Darunsikkhailai and its 15 years improvisation on Samba School

11:45 Leda Munoz and Maria Eugenia Bujanda
Costa Rica’s Omar Dengo Foundation Program: 29 years later

12:30 - 13:30 Lunch
LOCATION: Cafeteria (5 fl)

13:30 - 15:30 Session 4: Open house: Constructionism in Thailand
Chair: Nalin Tutiayaphuengprasert
LOCATION: School Lobby (1 fl)

15:30 - 15:45 Break
Location: 2nd fl open space

15:45 - 17:45 Session 5A: Poster Session
Chairs: Arnan Sipitakiat and Nalin Tutiayaphuengprasert
LOCATION: Gymnasium (2 fl)

Sawaros Thanapornsangsuth
Compassion and Empathy through Inventions: GoGo Board Toolkit for 7 - 10 years old

Brian Harvey
What’s New in Snap: and BJC

Pavel Petrović
A new robot in a classroom
Xiaoxue Du
Curriculum planning in Global Climate Change Application of Public Repository in STEM Education

Nathan Holbert
Bots for Tots: Leveraging ‘Ways of Knowing’ to Increase Diversity in Makerspaces

Tomohito Yashiro, Kazushi Mukaiyama and Yasushi Harada
Workshop of Game Programming in Scratch

Sawaros Thanapornsangsuth, Yongyuth Laitavorn, Kasidej Phulsuksombati, U-Lacha Laochai, Rachaneeporn Assavanop, Surapat Somsri and Quankamon Dejatiwongse Na Ayudhya
Little Builders: Empowering At-risk Children by Building and Design

Miki Matsumasa, Chieko Harayama, Kazuhiro Abe, Nobuko Kishi and Manabu Sugiura
Robot Programming Workshop for Middle and High School Girls

Alejandro Rosas Mendoza, Esteban Pablo Diaz and Avenilde Romo Vázquez
Bridge of popsicle sticks: A project and a contest

Aoi Yoshida, Kazunari Ito and Kazuhiro Abe
A practical report on a course of learning by making at the university in Japan

Mícheál Ó Dúill
Philological philosophy, simplistic science, misleading mathematics, perfidious perception, trusty technology

Mícheál Ó Dúill
After Scratch: Logo(Writer)?

Pavel Petrovič
On controlling LEGO Education platforms from Imagine Logo

Ildikó Tasnádi, László Csink and Károly Farkas
Teaching programming constructively and playfully

Suttipong Thajchayapong, Tanut Choksatchawathi, Paron Israsena and Chanikarn Wongviriyawong
Increasing Learning Gain in Linear Algebra through Play

15:45 - 17:45 Session 5B: Demos

Location: Gymnasium (2 fl)

Pavel Petrovič
Tatrabit - a mobile robotic platform for teaching programming

Yu Guo and Uri Wilensky
Learning About Complex Systems with the BeeSmart Participatory Simulation

Mikhaela Dietch, Bryanne Leeming and Amon Millner
JumpSmart: A Platform for Communal Making and Physical Engagement in Programming

Kazuhiro Abe and Masashi Umezawa
Pyonkee: A Scratch compatible visual-programming environment running on iPad

Andreas Grillenberger and Ralf Romeike
Analyzing Twitter Data using Snap

19:00 - 21:30 Dinner at Mr. Paron's house
Wednesday, February 3rd

09:00 - 10:00 Session 6: Plenary 2

Chair: Arnan Sipitakiat
Location: Main Auditorium (2 fl)

Ivan Kalas
On the Road to Sustainable Primary Programming

10:00 - 10:30 Break
Location: 2nd fl open space

10:30 - 12:30 Session 7A: Papers: Programming in the 21st Century

Chair: Brian Harvey
Location: Main Auditorium (2 fl)

10:30 Chris Proctor and Paulo Blikstein
Grounding How We Teach Programming in Why We Teach Programming

11:00 Ken Kahn
What would the ideal constructionist programming language (or languages) be like?

11:45 Marcelo Worsley, Kipp Bradford, Taylor Martin, Paulo Blikstein, Arnan Sipitakiat and Nalin Tutiyaphuengprasert
Constructionism and the Internet of Things

10:30 - 12:30 Session 7B: Papers: Programming in Context

Chair: Ana Isabel Sacristan
Location: Library (9 fl)

10:30 Anja Petri, Christian Schindler, Wolfgang Slany and Bernadette Spieler
Game Design with Pocket Code: Providing a Constructionist Environment for Girls in the School Context

11:00 Walter Bender, Devin Ulibarri and Yash Khandelwal
Music Blocks: A Musical Microworld

11:30 Deborah Fields, Lisa Quirke, Tori Horton, Jason Maughan, Xavier Velasquez, Janell Amely and Katarina Pantic
Working toward Equity in a Constructionist Scratch Camp: Lessons Learned in Applying a Studio Design Model

12:00 Michael Weigend
Designing Interfaces for Special Needs

10:30 - 12:30 Session 7C: Papers: Constructionism & New Ideas

Chair: Gerald Futschek
Location: Constructionism Lab (10 fl)

10:30 Jean-Francois Maheux
Papert's sort-of-right mathematics

11:00 Kate Mackrell and Dave Pratt
Resituating Constructionism in the Space of Reasons
Valentina Dagienė, Gerald Futschek and Gabriele Stupurienė

Teachers’ Constructionist and Deconstructionist Learning by Creating Bebras Tasks
Meurig Beynon, Jonathon Foss, Antony Harfield, Elizabeth Hudnott and Nicolas Pope

Construing and Computing: Learning through Exploring and Exploiting Agency

12:30 - 13:30 Lunch & Scientific Committee Meeting #1
Location: Cafeteria (5 fl)

Chair: James Clayson
Location: Main Auditorium (2 fl)

13:30 Tamar Fuhrmann, Marcelo Worsley and Paulo Blikstein
A new Model for Eliciting Engineering Expertise from Novices: Expect non-Experts to Behave Like Experts

14:00 Yoshiro Yoshiro, Nanako Ishido, Kazuhiro Abe and Mihoko Kamei
Communities of Learning Designers in Japan – From constructing products to constructing communities –

14:45 Umit Aslan and Uri Wilensky
Restructuration in Practice: Challenging a Pop-Culture Evolutionary Theory through Agent Based Modeling

13:30 - 15:15 Session 8B: Papers: Reflections & Next Steps for Constructionism
Chair: Ivan Kalaš
Location: Library (9 fl)

13:30 Chronis Kynigos
Constructionist activity with institutionalized infrastructures: the case of Dimitris and his students.

14:00 Laura Benton, Celia Hoyles, Ivan Kalas and Richard Noss
Building mathematical knowledge with programming: insights from the ScratchMaths project

14:30 Gary Stager, Tracy Rudzitis, Brian Smith and Amy Dugré
Making Constructionism Real in Real Schools Every Day

13:30 - 15:15 Session 8C: Papers: School Experiences
Chair: Gerald Futschek
Location: Constructionism Lab (10 fl)

13:30 Cristianne Butto-Zarzar, Joaquín Delgado and Ana Isabel Sacristán
Generalization processes: an experience using eXpresser with primary-school children

14:00 Antony Harfield, Rene Alimisi, Peter Tomcsányi, Nick Pope and Meurig Beynon
Constructionism as making construals: first steps with JS-Eden in the classroom
14.30  Conor Wickham, Carina Girvan and Brendan Tangney
Constructionism and microworlds as part of a 21st century learning activity to
impact student engagement and confidence in physics

15:15 - 15:45  Break  Location: 2nd & 9th fl open space

15:45 - 18:15  Session 9A: workshop
Location: Constructionism Lab (10 fl)
Valentina Dagiene, Gerald Futschek and Gabrielė Stupurienė
Developing Computational Thinking by Using Constructionist and
Deconstructionist Learning

15:45 - 18:15  Session 9B: workshop
Location: Main Auditorium (2 fl)
Yoshiro Miyata and Mihoko Kamei
World Peace Song Project

15:45 - 18:15  Session 9C: workshop
Location: Library (9 fl)
Walter Bender, Cynthia Solomon, Devin Ulibarri and Claudia Urrea
Music Blocks Workshop

15:45 - 18:15  Session 9D: workshop
Location: Fab Lab (10 fl)
Gary Stager
Constructionist Archaeology - Digging into Papert Papers Lost and Found

Thursday, February 4th

09:00 - 10:00  Session 10: Plenary 3
Location: Main Auditorium (2 fl)
Brian Harvey
Report from the Future: The Next Generation High School

10:00 - 10:45  Session 11: Conference-wide brainstorming
Where we are? What is next?
Chair: Paulo Blikstein
Location: Main Auditorium (2 fl)

10:45 - 11:00  Break  Location: 2nd fl open space

11:00 - 12:15  Session 12: Group discussion based on themes that emerged
from the brainstorming session.
Chair: Paulo Blikstein
Location: Main Auditorium (2 fl)

12:15 - 13:00  Lunch  Location: Cafeteria (5 fl)
13:00 - 13:45 Session 13: Presentation by all three groups.
  Chair: Paulo Blikstein
  Location: Main Auditorium (2 fl)

13:45 - 14:45 Session 14A: Papers: Early Childhood
  Chair: Richard Noss
  Location: Main Auditorium (2 fl)

  13:45  Jose A. Valente
         Inquiry Based Learning Project: a study of doing science with elementary public school students
  14:15  Chrystalla Papademetri-Kachrimani and Marianna Efstathiadou
         Redefining Learning Through Constructivism Practices in Early Childhood Education: Is This Possible? A Case Study of a Teacher During Her Participation in a Continuing Professional Development Program

13:45 - 14:45 Session 14B: Papers: New Tools & Activities
  Chair: Arnan Sipitakiat
  Location: Library (9 fl)

  13:45  Corey Brady, David Weintrop, Gabriella Anton and Uri Wilensky
         Constructionist Learning at the Group Level with Programmable Badges
  14:15  Ken Kahn
         Integrating programming languages with web browsers

13:45 - 14:45 Session 14C: Papers: Working with Teachers
  Chair: Ana Isabel Sacristan
  Location: Constructionism Lab (10 fl)

  13:45  Mareen Przybylla and Ralf Romeike
         Teaching Computer Science Teachers: A Constructionist Approach to Professional Training on Physical Computing
  14:15  Elena Prieto-Rodriguez and Daniel Hickmott
         Preparing teachers for the Digital Technologies Curriculum: Preliminary results of a pilot study

14:45 - 15:00 Break
  Location: 2nd & 9th fl open space

15:00 - 17:30 Session 15A: workshop
  Location: Library (9 fl)

  Carina Girvan, Nathan Holbert, Chronis Kynigos, Celia Hoyles and Richard Noss
  Considering approaches to research through the lens of constructionism

15:00 - 17:30 Session 15B: workshop
  Location: Constructionism Lab (10 fl)

  Arthur Hjorth, David Weintrop, Corey Brady and Uri Wilensky
  LevelSpace: Constructing Models and Explanations across Levels

15:00 - 17:30 Session 15C: workshop
  - L -
Arnan Sipitakiat and Paulo Blikstein

New Frontiers in Educational Robotics with the Raspberry Pi and the GoGo Board

18.30 - 20.30  Sunset excursion and conference dinner on a private cruise along the Chao Phraya river.

Friday, February 5th

09.00 - 10.00 Session 16: Plenary 4

Chair: Richard Noss
Location: Main Auditorium (2 fl)

Cynthia Solomon
Constructionism Lifetime Achievement Award

10.00 - 10.30 Break  Location: 2nd fl open space

10.30 - 12.30 Session 17A: Papers: Math, Programming, Robots

Chair: Arnan Sipitakiat
Location: Main Auditorium (2 fl)

10.30  Pavel Petrovič and Richard Balogh
Summer League: Supporting FLL Competition

11.00  Dave Catlin
Learning Intentions and Educational Robots

11.30  Han Hyuk Cho, Jin Hwan Jeong, Jong Jin Kim, Yong Hyun Seo and Seung Joo Lee
Math-based Coding Education in Korean School

12.00  Han Hyuk Cho, Hanik Jo, Cho Hee Lee, Eun Ji Lee and Hye Rim Jeong
3D turtle coding activities for Korean primary education

10.30 - 12.30 Session 17B: Papers: Emotion & Engagement

Chair: James Clayson
Location: Library (9 fl)

10.30  Chris Shelton
Beyond lesson recipes: first steps towards a repertoire for teaching primary computing

11.00  Ploybussara Gomasang, Pintippa Sangwan and Chanikarn Wongviriyawong
Assessing Interpersonal Relationship Among Peers in a Constructionist Classroom: a Probabilistic Method

11.30  Michael Weigend, Lisa-Marie Jung, Sarah Lenzen, Maike Gebhardt, Caroline Flaßhoff, Alisha-Sophie Unger, Julian Wagner, Weronika Jarosz, Stella Krämer and Stefanie Schweitzer
Learning Emotional Aspects of Digital Competence By Creating Artefacts
Nalin Tutiyaphuengprasert
Samba School of the 21st Century: Learning in the Break Dance Community in Bangkok

10:30 - 12:30 Session 17C: Papers: Tools & Powerful Ideas

Chair: Ken Kahn
Location: Constructionism Lab (10 fl)

10:30 Maite Mascaró and Ana Isabel Sacristán
Exploring randomness and variability in statistics through R-based programming tasks

11:00 Angel Pretelín-Ricárdez and Ana Isabel Sacristán
Programming videogames with models of physical parameters: some examples

11:30 Eleonora Badilla-Saxe and Florencia Morado
The Imaginatorium

12:00 Arthur Hjorth, Corey Brady, Bryan Head and Uri Wilensky
Turtles All the Way Down: Presenting LevelSpace, a NetLogo Extension for Reasoning about Complex Connectedness

12:30 - 13:30 Lunch & Scientific Committee Meeting #2
Location: Cafeteria (5 fl)

13:30 - 16:00 Session 18A: workshop
Location: Constructionism Lab (10 fl)

David Weintrop, Arthur Hjorth and Uri Wilensky
NetLogo Web: Bringing Turtles to the Cloud

13:30 - 16:00 Session 18B: workshop
Location: Main Auditorium (2 fl)

Ken Kahn
And now for something completely different: ToonTalk - a programming language that is not textual, block-based, or procedural

13:30 - 16:00 Session 18C: workshop
Location: Fab Lab (10 fl)

Angel Pretelín-Ricárdez and Ana Isabel Sacristán
Videogame construction with models of physical parameters

16:00 - 16:30 Break
Location: 2nd fl open space
16:30 - 17:30 Session 19: Plenary 5

Chair: Jose Valente
Location: Main Auditorium (2 fl)

Jose A. Valente
Computational Thinking in School: reviving programming in the context of digital culture

17:30 - 17:45 Closing

Location: Main Auditorium (2 fl)