



### Conference Profile

- Title** : International Conference on Teaching and Learning with Technology (ICTLT 2014)
- Dates** : 7 - 10 April 2014
- Venue** : Suntec Singapore Convention & Exhibition Centre
- Objective** : ICTLT 2014 provides a platform for participants to:
- network and get updates and insights on educational technology developer solutions; and
  - share, learn and engage collectively on the challenges and opportunities in the use of ICT for teaching and learning.
- Participants** : This conference will bring together education leaders, education researchers, classroom practitioners and industry leaders locally and across the Asia-Pacific Region and around the world.
- Theme** : Enhance Pedagogy, Engage Learners, Enable Action, Empower You

Elements			
Enhance Pedagogy	Engage Learners	Enable Action	Empower You
This element focuses on the adoption of technologies to improve instructional methods. This will include innovative classroom practices leveraging the use of experimental, emerging or established ICT tools that nurture and assess self-directed learning, collaborative learning and other 21st Century competencies through subject matter.	This element focuses on harnessing the affordances of technology to enthuse, excite and interest learners. This will include authentic educational experiences in ICT-rich learning environments that aim to motivate pupils by making learning more meaningful, relevant and fun for them.	This element focuses on the thought leadership that leads to the effective, efficient and seamless integration of technologies in educational settings with the aim of achieving desirable outcomes. This will include policy-making, school administration, cyber wellness, change management and curriculum development.	This element underpins the intent of the conference. This includes professional development and participatory learning approaches, strategies to strengthen accountability, and competencies to purposeful use of technologies in teaching and learning anywhere.

**Conference Fees**

	<b>Early Bird Rate (S\$) till 31 Jan 2014</b>	<b>Normal Rate (S\$)</b>
Conference*	480	640
Pre-Conference Workshop**	150	190

All fees quoted are subject to 7% Goods and Services Tax (GST).

\* The Main Conference fee includes attendance at the keynote sessions, concurrent sessions, tea breaks, daily lunch and conference materials.

\*\* The Pre-Conference workshop fee includes attendance, tea breaks and workshop materials.

Please visit the conference website (<http://www.ictlt.com>) for more information.

For further enquiries, please contact:

Mrs Tay-Lee Li Theng

Tel No: (65) 6879 6426

Fax No: (65) 6872 7194

Email Address: [LEE\\_Li\\_Theng@moe.gov.sg](mailto:LEE_Li_Theng@moe.gov.sg)

## Conference Programme

### Pre-Conference Activities

#### Monday, 7 April 2014

9.00 am - 1.00 pm School Visits (For foreign delegates only)

#### Tuesday, 8 April 2014

9.00 am - 4.00 pm Pre-Conference Workshops

### Main Conference

#### Wednesday, 9 April 2014 – Day 1

0800 - 0900	Registration
0900 - 0915	Opening Ceremony
0915 - 1045	Keynote 1
1045 - 1115	Tea Break and Exhibition
1115 - 1230	Spotlight Sessions and Concurrent Sessions
1230 - 1400	Lunch
1400 - 1500	Keynote 2
1500 - 1630	Spotlight Sessions and Concurrent Sessions
1630	End of Day 1

#### Thursday, 10 April 2014 – Day 2

0900 - 1000	Keynote 3
1000 - 1030	Refreshments
1030 - 1145	Spotlight Sessions and Concurrent Sessions
1200 - 1230	Concurrent sessions
1230 - 1400	Lunch
1400 - 1515	Spotlight Sessions and Concurrent Sessions
1515 - 1615	Keynote 4
1615 - 1700	Closing Ceremony
1700	End of Day 2

\*The Conference Exhibition will be open from 0900 to 1800 on main conference days.

\*\* Afternoon refreshments will be served in the Exhibition Hall from 1500 to 1600.

## **Some of Our Keynote and Spotlight Speakers**

### **Dr Yong Zhao**

Presidential Chair and Associate Dean for Global Education in the College of Education,  
University of Oregon



Dr Yong Zhao is an internationally known scholar, author, and speaker. His works focus on the implications of globalization and technology on education. He has designed schools that cultivate global competence, developed computer games for language learning, and founded research and development institutions to explore innovative education models. He has published over 100 articles and 20 books, including *Catching Up or Leading the Way: American Education in the Age of Globalization* and *World Class Learners: Educating Creative and Entrepreneurial Students*.

Dr Zhao is a recipient of the Early Career Award from the American Educational Research Association and was named one of the 2012 10 most influential people in educational technology by the *Tech & Learning Magazine*. He is an elected fellow of the International Academy for Educational Development. His latest book *World Class Learners* has won several awards including the Society of Professors of Education Book Award (2013), Association of Education Publishers' (AEP) Judges' Award and Distinguished Achievement Award in Education Leadership (2013).

Dr Zhao currently serves as the Presidential Chair and Associate Dean for Global Education in the College of Education, University of Oregon, where he is also Weinman Professor of Technology and Professor in the Department of Educational Measurement, Policy, and Leadership.

Follow Dr Yong Zhao at <https://twitter.com/YongZhaoUO>.

### **George Couros**

Division Principal of Innovative Teaching and Learning for Parkland School Division



George Couros is the Division Principal of Innovative Teaching and Learning for Parkland School Division. He is a leader in the area of innovation; his focus is always on the development of leadership and people in order to create what is best for kids. His mix of research, personal stories, and practical ways to implement new learning helps others feel comfortable in taking risks in their own learning.

Learn more about George Couros at <http://georgecouros.ca/blog/>.



### **Dr Ruben Puentedura**

Founder and President of Hippasus, a consulting firm based in Western Massachusetts



Dr Ruben Puentedura is the Founder and President of Hippasus consulting firm based in Western Massachusetts, focusing on transformative applications of information technologies to education. He has implemented these approaches for over twenty-five years at a range of educational institutions, as well as health and arts organizations. He is the creator of the SAMR model for selecting, using, and evaluating technology in education, which currently guides the work of the Maine Learning Technology Initiative, as well as multiple other projects in the USA, Canada, Sweden, Australia, and Singapore. His current work explores new directions in mobile computing, digital storytelling, learning analytics, and educational gaming, focusing on applications in areas where they have not been traditionally employed.

He can be reached at [rubenrp@hippasus.com](mailto:rubenrp@hippasus.com).

### **Aaron Sams**

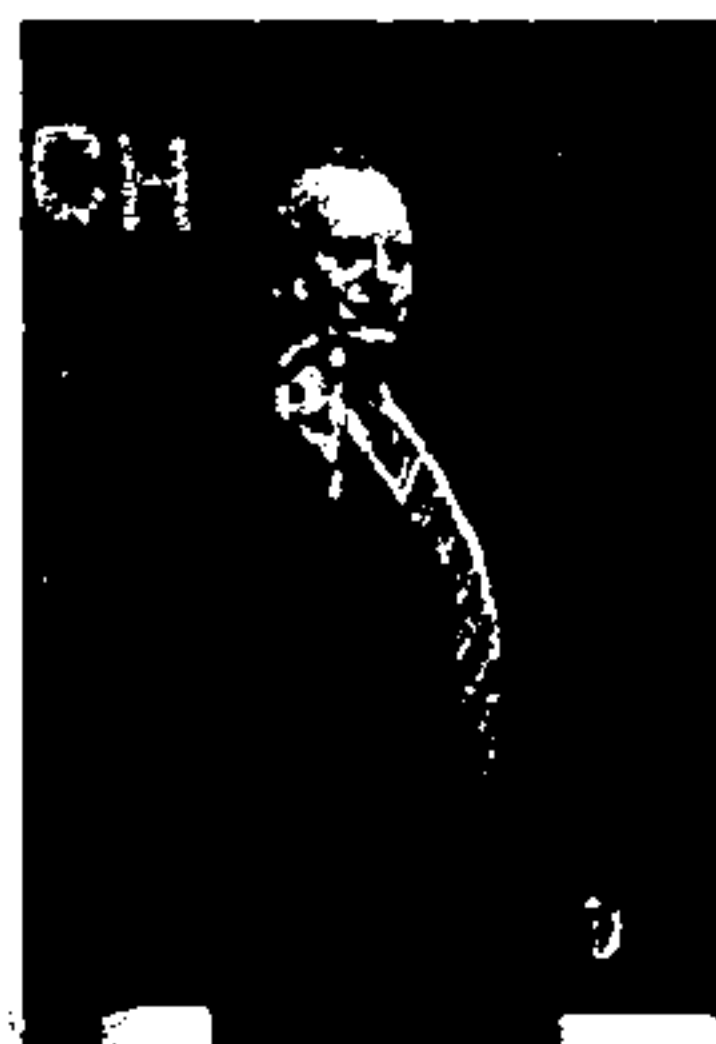
Director of Digital Learning and the Director of Admissions at the Reformed Presbyterian Theological Seminary in Pittsburgh, PA.



Aaron Sams has been an educator since 2000 and is currently the Director of Digital Learning and the Director of Admissions at the Reformed Presbyterian Theological Seminary in Pittsburgh, PA. Prior to this he was a science teacher at Woodland Park High School in Woodland Park, Colorado and Los Altos High School in Hacienda Heights, CA. He was awarded the Presidential Award for Excellence in Math and Science Teaching. He recently served as co-chair of the Colorado State Science Standards Revision Committee. He frequently speaks and conducts workshops on the educational uses of screencasts and The Flipped Classroom concept. Aaron is co-author of *Flip Your Classroom - Reach Every Student in Class Every Day*, a founding member of the Flipped Learning Network, and serves as an advisor on the board of Ted-ED. Aaron brings a unique educational perspective to any audience with experience in public, private, and home schools in both face-to-face, online, and blended learning environments.

## Gary Stager

Director of Digital Learning and the Director of Admissions at the Reformed Presbyterian Theological Seminary in Pittsburgh, PA.



"Some people think outside of the box. Gary is unaware of the box's existence." - Futurist, Dr David Thornburg

Since 1982, Gary Stager has helped educators on six continents make sense of the digital age. He is considered one of the world's leading experts and advocates for computer programming, robotics and learning by-doing in classrooms. In 1990, Dr Stager led professional development for the world's first laptop schools and played a major role in the early days of online education. In addition to being a popular keynote speaker at some of the world's most prestigious education conferences, Gary is a journalist, teacher educator, consultant, software developer and Director of S.T.E.M. at The Oaks School in Hollywood, California.

When Jean Piaget wanted to better understand how children learn mathematics, he hired Seymour Papert. When Dr Papert wanted to create a high-tech alternative learning environment for incarcerated at-risk teens, he hired Gary Stager. This work was the basis for Gary's doctoral dissertation and documented Papert's most-recent institutional research project.

Gary has been a member of the MIT Media Lab's Future of Learning Group and the One Laptop Per Child Foundation's Learning Team.

In 1999, Converge Magazine named Gary a "shaper of our future and an inventor of our destiny." The National School Boards Association recognized Dr Stager with the distinction of "20 Leaders to Watch" in 2001. The June 2010 issue of Tech & Learning Magazine named Gary Stager "one of today's leaders who are changing the landscape of edtech through innovation and leadership." CUE presented Gary with its 2012 Technology in Learning Leadership Award, a recognition shared with the likes of George Lucas and Marc Andreessen. Above all, Dr Stager is recognized for his ability to inspire educators and transform learning environments.

Gary was the new media producer for The Brian Lynch/Eddie Palmieri Project - Simpatico, 2007 Grammy Award Winner for Best Latin Jazz Album of the Year. Dr Stager is also a contributor to The Huffington Post and a Senior S.T.E.M. and Education Consultant to leading school architecture firm, Fielding-Nair International. His advocacy on behalf of creativity, computing and children led to the creation of the Constructive Consortium and the Constructing Modern Knowledge summer institute.

Dr Stager's latest book, Invent To Learn - Making, Tinkering, and Engineering in the Classroom was published in May 2013 by Constructive Modern Knowledge Press. That book brings the excitement and revolutionary game-changing technologies (3D printing/ of the making movement fabrication, computer science and physical computing) to K-12 classrooms.

## **School Visits on 7 Apr 2014**

(For Foreign Delegates only - Complimentary)

All foreign delegates are invited to visit one of our schools. Transport will be provided. A conference officer will accompany the delegates to the hosting school.

Each school will host a maximum of 20 delegates. Registration will be on a first-come served basis.

### **Hosting Schools**



#### **Ai Tong Primary School**

Using ICT for Scaffolding and Reflections

Ai Tong School is a Centre of Excellence for ICT and leverage affordance of technology for scaffolding and reflection in order to promote self-directed and collaborative learning. With the emphasis on developing 21st Century Core Competencies in students for the future, the school empowers students to take ownership of their learning and encourages them to work collaboratively. For instance, through screencast (i.e. screen captures with audio narration), students make visible conceptual understanding and demonstrate content mastery.

Key Highlights:

- Classroom observations on how teachers scaffold students' learning through the use of technology
- Use of Screencast and other collaborative tools (e.g. Google sites) to support students in their learning of various subjects



#### **Chua Chu Kang Primary School**

Leveraging Technology for Engaged Learning and Conceptual Understanding

Chua Chu Kang Primary is committed to providing our students with a broad-based education to prepare our students to be 21st Century Learners – students who are self-directed learners and are able to collaborate, learn and communicate in a globalized age. This has created a new generation of students who are prepared to be innovative and lifelong learners who can respond to emerging problems with the use of technology. A school tour will be included to observe students engaged in learning using technology across a variety of subjects.

Key Highlights:

- Learning concepts and problem solving in ICT
- Robotics-infused Mathematics and Science lessons
- School's ICT-enhanced journalism programme





### **Geylang Methodist School (Primary)**

#### **Learning with Collaborative Cycles in English, Mathematics and Science**

Geylang Methodist School (Primary) believes in developing 21st century competencies in the learners and that these competencies are much needed in the future. Delegates will be able to see how technology harnessed to enhance students' learning in the different subject disciplines. The visit will offer delegates insights on the various technology platforms help students learn more effectively through collaboration and inquiry.

#### **Key Highlights:**

- Using HeuX, a programme which allows collaboration between teachers and students
- Using iPads and dataloggers for authentic learning



### **Innova Junior College**

#### **Leveraging New Media as an Enabler to Nurture the Whole Child: Cognitive, Character and Leadership Domains**

Innova Junior College (IJC) has been a designated Centre of Excellence (COE) for New Media since 2007. Through both the research centre and new media centre, the COE impacts teaching and learning, as well as character and citizenship education. The research centre leverages IJC innovative culture as well as support structures for teachers to spearhead their innovative teaching and learning research, grounded on sound pedagogy. Good practices are strengthened and shared with both local and international educators through various platforms like New Media Education Fiesta and Mediate Digital Magazines. As a COE for New Media, IJC is committed to equip Innovians with basic new media competencies and literacies for self-directed learning, character development and 21st Century Competencies through their distinctive Innova New Media Education Programme. They also connect students within and beyond IJC on social, national and environmental issues through the social web utility youthchaNgE 3.0.

#### **Key Highlights:**

- Classroom observation of ICT and new-media infused lesson
- La Vita Nuova New Media Art Installation visit
- Student-led Cyber wellness civics lesson showcase
- youthchaNgE 3.0 web utility



### Maris Stella High School

Embracing Inquiry Based Learning Approach in the Humanities through  
@ Maris Stella High School

Maris Stella High School embarked on a 1-1 learning programme in 2011 and has since developed a strong culture of incorporating ICT into school's teaching and learning practices, supported by a robust infrastructure. This has allowed the Humanities Department to leverage technology to overcome the apprehension that students faced when confronted with the Inquiry-based Approach: a pedagogy that challenges students to take ownership and direction in their learning.

Delegates will be able to understand the underpinnings of the various initiatives undertaken by the Humanities Department and how "Flipped Classroom", "Project Based Learning" and "Cooperative Learning" helped create excitement amongst the students and allowed them to embrace the Inquiry Based Approach. Students' artefacts will highlight the use of ICT, grounded by pedagogical principles, can result in delightful and pleasant surprises.

#### Key Highlights:

- The Students Interactive Screen @ MSHS 21st Century Classroom
- MSHS Media Production Studio
- ICT-enabled Classrooms
- Display of student artefacts and their reflections



### Nan Chiau Primary School

Bridging Formal and Informal Learning With Mobile Technology

Nan Chiau Primary is a Centre of Excellence for ICT and a FutureSchool. It has made significant strides in ICT and curriculum innovation since 2009. Among many innovations that they had implemented was the setting up of a research centre for using ICT in teaching and learning in 2009, a first for a primary school. Called the Centre for Educational Research and Application (CERA), it seeks to spearhead the transformation of teaching and learning using ICT in education. Through CERA, the school can better co-ordinate and promote research, innovative pedagogy and teachers' long-term professional development. One of the signature projects of CERA is to study the impact of learning where students learn anywhere, any time through the use of smart phones. Delegates will find out how the teachers gain knowledge in translating research findings to impact classroom practices that deliver quality teaching and learning outcomes.

#### Key Highlights:

- Classroom observations
- Visits to special rooms such as CERA



### **Ngee Ann Secondary School**

#### **Transforming Learning with Innovative Learning Spaces**

Ngee Ann Secondary is a Centre of Excellence for ICT and a FutureSchool. The school successfully developed an Isaac Newton Chat Bot for teaching Physics, used Second Life as a tool for teaching Art and has recently embarked on a 1-1 programme. They also believe in developing relationships through collaboration and the sharing of best practices through formal and informal platforms. Through the years, Ngee Ann has received various accolades such as being appointed the first Microsoft Living Lab in the world and being part of the Microsoft World Tour Schools for Asia. Ngee Ann has also been featured in local and overseas videos.

#### **Key Highlights:**

- Tour of special rooms
- Hands-on session with learning innovations (eg. Kinect, Artificial Intelligence Bot, 3D printing)



### **Radin Mas Primary School**

#### **Learning with Augmented Reality and Game-Based Learning for 21st Century Competencies**

Radin Mas Primary is a Centre of Excellence for ICT and leverages various technology-enhanced pedagogies to develop each child holistically in order to equip him with competencies for the future. The school uses Augmented Reality and Game-Based Learning to engage students and provide an enjoyable student-centered learning experience beyond what conventional pedagogies can achieve.

The visit will offer delegates insights into the school's approach in teaching and learning, the philosophy in the design of different learning spaces and its people development processes in terms of ICT.

#### **Key Highlights:**

- Enhanced Learning through Augmented Reality
- Game-Based Learning designed by Students for Students

## **Pre-Conference Workshops on 8 Apr 2014**

Engage in hands-on experience to explore the use of specific ICT tools for learning and teaching and interact with educators to enhance your classroom practices.

### **Pre-Conference Workshop Structure:**

- Held at Suntec Singapore Convention & Exhibition Centre
- Full day Workshop: 9.00 a.m. to 4.00 p.m.
- Fees per delegate: S\$150 (Early Bird), S\$190 (Normal)

Tea break and workshop materials will be included.

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|-------------------|---|
| <b>Workshop 1</b> | <p><b>Text Books not Suitable? Create e-Books with iBooks Author</b></p> <p>Can't find the books that are suitable for your students? Join us at this session to create your own with the new iBooks textbooks. Creating your own interactive Multi-Touch books with iBooks Author is easy. Come and explore the powerful content creation apps in the iWork and iLife suites to engage students.</p> |
| <b>Workshop 2</b> | <p><b>Do more with Google Apps for Effective Teaching and Learning</b></p> <p>25 million educators and learners are already using Google apps such as Google Sites, Google Drive and more. Join this session to learn effective ways and design learning activities and learning experiences to engage your students.</p>   |
| <b>Workshop 3</b> | <p><b>Learn Anytime, Anywhere with Microsoft Office 365</b></p> <p>Thinking of designing a virtual classroom? Join this session to explore the various collaboration and communication services available on Microsoft Office 365. Come and try the tools to create content and effectively manage, organize and re-use the content within a sharing and collaborative environment.</p>               |
| <b>Workshop 4</b> | <p><b>ArtRage! Art Attack!</b></p> <p>ArtRage is a stylish, intuitive painting and drawing package that makes it easy to produce natural looking artwork on your computer. Come and explore ways to engage your students through the use of this painting package to simulate realistic media such as oil paint, airbrush, pencil, crayon, watercolour.</p>   |



**Workshop 5      Have Fun! LEGO for Language Development**

Keen to learn more about innovative methods in language development through the use of ICT? Join this workshop to find out how language skills can be developed in an exciting and fun way through LEGO Education sets and software.

**Workshop 6      Learning in the Virtual World with 3DHive**

Learn to use 3DHive, the world's first complete games-for-learning platform to create 3D games to engage students in learning. Students can develop 21st Century Competencies through effective communication within the interactive games and the use of interactive narratives and media design. Come and design, share and play using this platform.

**Workshop 7      Create Collaborative Learning Experiences Using Edmodo**

Smarter NOT Harder! In this workshop, participants will learn about features Edmodo that allow educators to collaborate and share documents, links, web tools, assignments, quizzes, and polls with students and colleagues. Come and discover how digital content, tools, and games can be integrated to create rich learning experiences.