9th WORLD ASSOCIATION OF LESSON STUDIES
INTERNATIONAL CONFERENCE 2015
“Lesson Study for Improvement of Classroom Quality”
24 - 27 NOVEMBER 2015 | KHONKAEN, THAILAND

CONFERENCE ABSTRACTS

ORGANISED BY
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Welcome to the official website of
WALS International Conference 2015
November 24-26, 2015
Khon Kaen University, Thailand

The World Association of Lesson Studies (WALS) aims to promote and advance the research and practices focused on Lesson Studies in order to improve the quality of teaching and learning. The structure for this conference involving Keynote Speakers, Paper presentations Symposium presentations, Workshops, Poster presentation and School Visits. It is really a worldwide international event for researchers, educators, school teachers, policy makers and other scholars to share their knowledge among each other.

Introducing Lesson Study into Thai schools has influenced not only the improvement of teaching practice, but also improvement of the system of teacher education. A number of major changes have occurred during the last ten years since the introduction of Lesson Study and the Open Approach in 2002 by Center for Research in Mathematics Education. It has made a great contribution to improving mathematics education in Thailand. In 2013, there are 60 project schools using Lesson Study and Open Approach. Moreover, the center has shared its knowledge through APEC Lesson Study Project of APEC HRDWG since 2006, which so far 19 APEC member economies have been participating.

Khon Kaen University is 15 minutes by car (10 km) from Khon Kaen airport which is an hour’s flight from Don Mueang and Suvarnabhumi airports, Bangkok. A variety of accommodation ranging from university lodges to 4 star hotels can be found in downtown Khon Kaen. We have 2 campus demonstration schools in Khon Kaen University and it takes about 30 minutes to visit our pioneer Lesson Study project school in the Khon Kaen suburbs. Some attractions in the area are the famous Dinosaur Museum in Phu Wiang (87 km) and the
excavation site at Phu Kum Khao, Kalasin (118 km). It is about 200 km (a 3 hour drive) from Khon Kaen University to Vientiane, Laos PDR. It is also possible to cross the border to Siem Reap, Cambodia in 8 hours or fly back to Bangkok for a connecting flight to Siem Reap.

I am very pleased that Thailand is the official host for this conference and to have the opportunity to welcome all participants from every country. I am very much looking forward to seeing you at WALS 2015 in Khon Kaen and I am sure that your participation will contribute to the success of the conference.

Maitree Inprasitha, Ph.D., Chairperson
WALS 2015 Organizing Committee
Faculty of Education, Khon Kaen University

Organizations: Center for Research in Mathematics Education (CRME), Faculty of Education, Khon Kaen University, Institute for Research and Development in Teaching Profession for ASEAN (RDTP ASEAN) and Society of Mathematics Education (TSMEd)
WORLD ASSOCIATION OF LESSON STUDIES
INTERNATIONAL CONFERENCE 2015
“Lesson Study for Improvement of Classroom Quality”

and

APEC - Khon Kaen
International Symposium 2015

24 - 27 NOVEMBER 2015
FACULTY OF EDUCATION
KHON KAEN UNIVERSITY, THAILAND

Lesson Study for Improvement of Classroom Quality:

• WALS 2015 aims to promote and advance the research and practices focused on Lesson Studies in order to improve the quality of teaching and learning.
• Join our keynote & plenary sessions, paper presentations, symposium presentations, workshops, poster presentation and school visits.
• Learn and share with more than 300 papers from researchers, educators, school teachers, policy makers and other scholars.

Keynote Speakers:

Akihiko Takahashi
DePaul University, United States
24 November, 10:00 - 11:00

Wee Tiong Seah
University of Melbourne, Australia
26 November, 9:00 - 10:00

Maitree Inprasitha
Khon Kaen University, Thailand
25 November, 9:00 - 10:00

Open Classes:

Akihiko Takahashi
DePaul University, United States
Mathematics class for Prathom/Prasar 6 (Grade 6)
20 November, 10:00 - 11:30

Masahiko Sakamoto
Junior High School attached University of Tsukuba, Japan
Mathematics class for Matrayomsukha 4 (Grade 7)
25 November, 15:00 - 16:30

Nobuaki Kawasaki
High School attached University of Tsukuba, Japan
Disaster study class for senior high school (Grade 10-12)
26 November, 15:00 - 16:30

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Thailand Society of Mathematics Education
Keynote Speakers

**Akihiko Takahashi**  
DePaul University, United States  
"Collaborative Lesson Research: Maximizing the Impact of Lesson Study"

Mathematics educator Dr. Akihiko Takahashi is an Associate Professor of mathematics education at DePaul University in the United States and a Specially-Appointed Professor at Tokyo Gakugei University in Tokyo Japan. He has served as Visiting Professor at National Institute of Education in Singapore, National Science University Malaysia, and Khon Kaen University in Thailand. At DePaul University he teaches mathematics teaching and learning, and mathematics for prospective teachers and practicing teachers. He also provides workshops and seminars for practicing teachers using ideas from the U.S. and Asian countries. Since April 2011 he has been working with Phil Daro to lead a team to develop digital learning program to address CCSS-M (http://www.edweek.org/media/pearsonfoundationreleasegates.pdf).

He was an elementary teacher in Japan for nearly 20 years, teaching self-contained classes in grades 1-6, before becoming an educator of mathematics teachers. During his elementary teaching career, he was nationally active in mathematics lesson study and mentored 200 pre-service teachers. He co-authored the best-selling Japanese elementary textbook series, Mathematics for Elementary School, which has been translated into English and is available from Global Education Resources. He received his Ph.D. from the University of Illinois at Urbana-Champaign; his dissertation research focused on internet use in mathematics education.

**Maitree Inprasitha**  
Khon Kaen University, Thailand  
"Lesson Study incorporating Open Approach: Two practices in Community of Practices to improve Quality of Classroom"

Maitree Inprasitha is an assistant professor for Mathematics Education Program at the Faculty of Education, Khon Kaen University, Thailand. He holds Ph.D. in Mathematics Education from the University of Tsukuba, Japan and has long experiences in studying Japanese lesson study for more
than 15 years. His main research focus and publications revolve in Mathematics Education and teaching style of Lesson Study and Open Approach. These could make him being well-known as the first group of Thailand’s educators on implementing this issue to develop mathematics teaching and learning. He has been invited to be a visiting researcher at Naruto University of Education in 2005 and at the University of Tsukuba in 2007.

He has been overseeing the APEC Lesson Study series since 2006 until present. 19 APEC member economies have been participating in this project and created their Lesson Study community in APEC.

He was an IPC for EARCOME in 2007-2013 and Advisory board in 2015. He hosted EARCOME 6 in Phuket, Thailand in 2013. In 2015, he is a chief editor of Mathematics Education Book Series 3: Lesson Study: Challenge in Mathematics Education. He is currently an IPC of ICMI Study 23: Primary Mathematics Study on Whole Number.

At national level, he has been overseeing many national projects implementing lesson study in schools in many parts of the country. The first lesson study project school with collaboration with Khon Kaen University coaching by him will celebrate her 10 years of experiences in implementing lesson study in Thailand. He established the Center for Research in Mathematics Education, the first center in Thailand and this center becomes a part of National Center of Excellence in Mathematics. And he also established Institute for Research and Development in Teaching Profession for ASEAN (IRDTP ASEAN) in 2014.

He has been regularly invited to be an invited speaker and moderator for international conference especially among APEC countries.

Wee Tiong Seah
University of Melbourne, Australia
“Socio-cultural Aspects of Classroom Implementations of Lesson Study”

Wee Tiong Seah is an Associate Professor in Mathematics Education at the Melbourne Graduate School of Education, University of Melbourne, Australia. He had earlier served in Monash University after leaving the secondary classroom as a teacher of mathematics and trainer of mathematics Olympiad teams. Between 2007 and 2009, Wee Tiong was part of an Expert Advisory and Research Group which advised the Australian Commonwealth government on mathematics education matters. Since 2014, he has been an External Examiner for the Chinese University of Hong Kong’s MEd program. In the period 2009 – 2011, Wee Tiong oversaw the setting up of Monash University's offshore PhD program in Singapore. He is also no stranger to Khon Kaen University, for which he was an External PhD Supervisor. In addition, Wee Tiong was External Consultant in 2005-2007 to the APEC Lesson Study project that was based at Khon Kaen University. He has also been assessor of such research grant bodies as The Netherland’s ‘National Programme for Educational Research’ grant and South Africa’s National Research Foundation. Since 2013, he has served on the International Advisory Board of the ‘Mathematics Education and Society’ group. Wee Tiong was one of three overseas invitational speakers at the 2014 First Chinese Conference of Mathematics Education, amongst his other keynote speaking commitments. On an ongoing basis, he is member of the Editorial Boards of 5 mathematics education research journals, including the ‘International Journal of Science and Mathematics Education’.

Wee Tiong is passionate about the socio-cultural aspects of mathematics learning and teaching. His current research interest relates to what are valued in mathematics education and how these affect the quality of mathematics learning and teaching in schools and in the wider communities. This has led Wee Tiong to conceptualise and lead the 18-nation ‘The Third Wave’ Project. He has an entry in the 2014 ‘Encyclopaedia of Mathematics Education’. He was also invited to co-author for the ‘Second International Handbook of Mathematics Education’, as well as to co-edit a 2012 special thematic issue of the ZDM journal focusing on ‘values in mathematics education’. More generally, Wee Tiong is also author or co-author of more than 100 research publications since 1999.
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WALS 2015
Lesson Study for Improvement of Classroom Quality
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enhanced capacity in integrating the use of the online portal in teaching and learning of Chinese language, and gained efficacy in designing ICT-integrated lesson.

The qualitative research methods are employed, and the subjects of the study are Chinese language teachers participating in the projects who have little experience in using the online portal in teaching and learning of Chinese language. Main sources of data include lesson plans, teaching materials created for research lessons by participating teachers, post-lesson observation discussions, teachers’ reflection and teachers’ survey.

The paper will describe the role and involvement of knowledgeable others in the projects, examine the professional knowledge gained by teachers involved in the projects, and to what extent the knowledgeable others help in empowering teachers with enhanced professional capacity.

**PP3-1449-2**

Novri Youla  
Kandowangko,  
Lilam Dama  
Department Biology Education, Gorontalo  
State University,  
Province Gorontalo,  
Indonesia  
novri1968@gmail.com

**Keywords:**  
teacher candidates,  
Lesson Study

**Efforts to Prepare Teacher Candidates through the Lesson Study Patterns**

The purpose of this research was revealed effort to prepare teacher candidates through lesson study pattern on the practice field experience program (PPL) in the department of biology education.

This classroom action research conducted since February - May 2015. Target / research subjects are students who programmed course PPL 1 in the department of biology education, Faculty of Science, Gorontalo State University. Data were collected observation data of teaching skill, portofolio of design learning and video documentation of learning. Instruments include observation sheets and evaluation portofolio learning. Data observation, evaluation portofolio and video evidence was analyzed by descriptive qualitative study.

Results of this research is through the implementation of lesson study on PPL-1 program, the candidate biology teachers are able to develop pedagogical competence in designing learning, able to implement the learning process biology, and be able to reflect on themselves as well. Biology teacher candidates actively and consciously observe the learning experience that has been done before, analyzed and acted make improvements on biological learning process at a later stage.

**PP3-1449-3**

Alan Pillay,  
Low Choon Siong,  
Rezuan Bin Kassim,  
Abiyah Binte Abdul Aziz  
Evergreen Primary School, Singapore  
alain_pillay@moe.edu.sg

**Responding to Truth Statements: Teaching Reading Comprehension in an Upper Primary EL Classroom**

In the Assessment Guidelines and Ideas for English Language (MOE, 2013), one of the learning outcomes is that “students are able to apply critical reading by focusing on implied meaning, higher-order thinking, judgement and evaluation”.

The main aim of this study is to investigate the use of a Thinking Routine, Claim-Support-Clarify, to develop pupils’ reasoning skills for answering questions based on a text. The routine will provide a structure in applying
CERTIFICATE OF ATTENDANCE
This is to verify that

Novri Youla Kandowangko

has been a presenter of
Oral Presentation

In the WALS International Conference 2015
held at the Faculty of Education, Khon Kaen University, Thailand
between 24-27 November 2015

Maitree Inprasitha, Ph.D.
Chairperson, WALS 2015 Organizing Committee
Dean, Faculty of Education, Khon Kaen University