

Singapore Math Summer Program 2009

Dates: July 18 (Saturday) to July 25 (Saturday), 2009

For: Teachers, academics, researchers, leaders and others interested in Singapore Mathematics

Cost: US\$2400 (US\$2300 for Early Bird registration before 15 March 2009)

Includes:

- 7 nights central city accommodation (Twin sharing- two people to a room with two beds. You can specify the friend with whom you wish to share the room.)
*For single room accommodation, add US\$350 to the total cost.
- Transportation by private bus in Singapore.
- Meals - 7 breakfasts, 5 lunches, tea breaks and an ethnic dinner.
- Instruction, observations, discussions, and seminars by leading Math educators and program leaders.
- Singapore Math materials (e.g. teachers' guides, textbooks, activity books, CDs)*

*Participants will have a choice of resources from 2 levels as the cost is included in the tuition fees. You can purchase additional resources from other levels if you wish to do so.

Note: Expenses exclude round-trip airfare to Singapore. Participants will be responsible for making their own airline reservations.

Purpose of This Trip:

- To facilitate opportunities to learn, understand and experience first-hand how Mathematics is taught and learnt in Singapore.
- To provide participants with Singapore Mathematics resources in the form of books, CDs, notes, seminars and practical experiences.
- To reflect on own professional development, teaching, and learning in the areas of Mathematics by learning about the Singapore approach to Mathematics teaching and learning.

Description of Activities (all conducted in English):

A. Study Activities:

- Visit primary (elementary) schools and secondary schools (junior high / high school) to observe regular school activities in Singapore
- Visit a dynamic Polytechnic providing a project-based post-secondary education
- Observe Mathematics lessons
- Discuss with Singaporean teachers the Mathematics lessons observed
- Participate in seminars and workshops by leading Mathematics educators in Singapore
- Learn about Mathematics programs at the National Institute of Education (the main and premier teacher training institute in Singapore).
- Meet the major Math textbook publisher in Singapore
- Engage in informal exchanges and conversations with Singaporean educators and researchers
- Participate in regular reflection and discussions with program leaders

B. Cultural Activities (Optional & Flexible- additional cost):

- Sightseeing tours of Singapore city, as well as cultural tours to Little India (Indian), Chinatown (Chinese), Kampong Glam (Malay) and the historical districts.
- The city tours include major shopping malls along Orchard and major attractions such as Botanic gardens, The Esplanade, Raffles Landing Site and Merlion Park.
- Participate in the land & river cruise and riverside party featuring authentic Singapore & Southeast Asian cuisine
- 2-day Spa experience in Bintan island (Indonesia) or Sentosa island (Singapore)
- 4-day Bali tour
- Cruise around Southeast Asia

Number of participants: Limited to 24 participants

Tentative Itinerary

Saturday, July 18 Day 0:

(Optional but recommended to help with adjustment to the time change)

Arrive in Singapore

Sunday, July 19 Day 1:

AM: Free & Easy

PM: Briefing (5.30pm) & Group Dinner (6.45pm)

Monday, July 20 Day 2:

AM: Primary School 1

PM: Primary School 2

Tuesday, July 21 Day 3:

AM: Mathematics Workshop: solving problems

PM: Singapore Education Workshop: learn about the education system, teacher preparation and teacher support

Wednesday, July 22 Day 4:

AM: Secondary School 1

PM: Secondary School 2

Thursday, July 23 Day 5:

AM: Visit to the National Institute of Education

PM: Primary / Secondary School 3

Friday, July 24 Day 6:

AM: Visit to the Republic Polytechnic

PM: Singapore Examination and Assessment Board: iPSLE

PM: Cultural Tour of Singapore

Saturday, July 25 Day 7:

Depart for home, free time or Flexible Tour Package (additional cost)

Dr. Patsy Wang-Iverson

Program Facilitator

The SMSP 2009 facilitator and team leader is Dr. Patsy Wang-Iverson.

Patsy Wang-Iverson is Vice President for Special Projects at the Gabriella and Paul Rosenbaum Foundation and serves as a consultant in lesson study, TIMSS and Singapore Primary Mathematics to schools/districts/universities, national educational organizations, state departments of education, and Singapore's National Institute of Education.

Wang-Iverson organized and presented an elementary mathematics course for teachers based upon Singapore's Primary Mathematics textbooks, which combined face-to-face interaction and online work. She has been analyzing and disseminating data from international mathematics, science, and reading studies (TIMSS, PISA, PIRLS)* for over ten years.

It was through TIMSS that she first was introduced to Singapore's mathematics syllabus and lesson study. She continues her learning by working with and listening to teachers and students engaged with lesson study. Her work with lesson study has included serving as invited keynote speaker for state and national conferences, introducing lesson study to schools, engaging with them in lesson study cycles, and participating in research lessons as a knowledgeable other. Wang-Iverson co-edited with Makoto Yoshida Building our understanding of lesson study (2005).

Wang-Iverson has been the USED representative to the APEC (Asia-Pacific Economic Cooperation) lesson study project, which includes 16 economies embarking collaboratively on the implementation of lesson study to foster better student and teacher learning. She contributed two papers at the 2007 and 2008 APEC lesson study conferences entitled 'Developing mathematical thinking through lesson study: Overcoming barriers to effective implementation' and 'Using lesson study to connect procedural knowledge with mathematical thinking.' She holds a bachelor's degree in chemistry from Mount Holyoke College and both a master's and Ph.D. in biochemistry from Wake Forest University Medical School.

About **S**Math **R**esources

SMath Resources provides quality education services and resources related to the teaching of Singapore Math. Its specialty is in the teaching of primary Math in Singapore.

SMath Resources is the organizer of the Singapore Summer Math Program for teachers from United States of America and other countries.

Celine Koh of SMath Resources is an experienced and sought-after Math educator. After attaining a bachelor's degree, she went for her postgraduate education in the National Institute of Education in Singapore. She then taught in primary schools.

Subsequently, Celine focused on teaching Mathematics to children in the Gifted Education Programme (GEP) for more than 5 years. She also trains children for Singapore Math Olympiads. She has also shared about the teaching of Mathematics to Singapore to overseas educators.

Celine's Math workshop participants included Math teachers, professors, leaders and researchers from Arizona to Washington and other parts of United States. The feedback and comments from her students and workshop participants have been highly favorable.