

SUBMISSION & CLOSING DATE

All participation forms are to be submitted to the following latest by **18 June 2012** to:
Director, SEAMEO RECSAM,
Jalan Sultan Azlan Shah,
11700 Gelugor, Penang.
Fax to: 04-6522742/ 04-6522737

LOCAL ORDER INFORMATION

Pay to: SEAMEO RECSAM
Bank: MAYBANK GELUGOR
BRANCH, PENANG.
Account Number: 5571 5700 0647

PARTICIPATION FORM

Name:

School/Organization:

Gender: Male / Female

Telephone: Office: Home:

Mobile:.....

Email:.....

Do you need accommodation at RECSAM International House?

Yes Type: Single Occupancy Twin Sharing Date:
 No

I enclose a Cheque /Local Order / Postal Order

No: _____ bearing the sum of RM _____ as payment for the workshop.

(Please make cheque/local order/postal order payable to: **SEAMEO RECSAM**)

Note: To enrol please complete the PARTICIPATION FORM and send/fax it to:
Director, SEAMEO RECSAM, 11700 Gelugor, Pulau Pinang.
Fax : 04-6522742 / 04-6522737

Closing date for registration is **18 June 2012**.

Signature:.....

Date:

FOR ENQUIRIES:

Mr. Baharulnizam Baharum / Ms. Deng Mee Cheng

email: baharulnizam_baharum@recsam.edu.my / deng@recsam.edu.my

Telephone: 04-6522747 / 04-6522741



DEVELOPING CHILDREN'S MATHEMATICAL THINKING: AN ESSENCE OF PEDAGOGICAL CONTENT DEVELOPMENT IN JAPANESE TEXTBOOKS

FACILITATOR

ASSOCIATE PROFESSOR DR. MASAMI ISODA

CENTRE FOR RESEARCH ON INTERNATIONAL
COOPERATION IN EDUCATIONAL DEVELOPMENT (CRICED)
UNIVERSITY OF TSUKUBA, JAPAN

TARGET PARTICIPANTS

PRIMARY MATHEMATICS TEACHERS
& TEACHER EDUCATORS

DATE

3 & 4 JULY 2012

VENUE

SEAMEO RECSAM, PENANG

ORGANISED BY

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANISATION
REGIONAL CENTRE OF EDUCATION IN SCIENCE AND MATHEMATICS
JALAN SULTAN AZLAN SHAH
11700 GELUGOR, PENANG, MALAYSIA



DEVELOPING CHILDREN'S MATHEMATICAL THINKING: AN ESSENCE OF PEDAGOGICAL CONTENT DEVELOPMENT IN JAPANESE TEXTBOOKS

Mathematics textbooks form an important and essential part of mathematics education in Japan. Japanese teachers and students use the textbooks as one of the main teaching and learning resources in the classroom. The Japanese textbooks have been carefully written in order to help children systematically develop their mathematical knowledge and thinking. The main aim of this workshop is to help participants examine the Japanese textbooks for primary schools to understand the pedagogical content and its learning trajectories that form the foundation for the development of the textbooks. In Japan, these theories constitute the bases for the development of children's mathematical ideas and ways of thinking, and developing the children's problem solving competency to learn mathematics independently.

STRATEGIES/APPROACHES

The lessons will be conducted using lecture cum workshop methods. Participants are expected to work in groups to solve mathematical problems. Works of participants may be presented.

PARTICIPATION FEES

Type 1: **RM 590.00** **per participant** (Without Accommodation)
 Type 2: **RM 720.00** **per participant** (Twin Sharing at RECSAM International House)
 Type 3: **RM 825.00** **per participant** (Single occupancy at RECSAM International House)

ACCOMMODATION AT RECSAM INTERNATIONAL HOUSE

For participants boarding at the RECSAM International House

Check in A Day Before 1400 to 1800

Check out A Day After by 1200

MEALS

Morning tea, lunch and afternoon tea will be provided by SEAMEO RECSAM during the workshop sessions.

For stay-in participants (Type 2 & Type 3), breakfast and dinner will also be provided.

SCHEDULE

DAY 1 - TUESDAY (3 JULY 2012)

0800 – 0830	Registration
0830 – 1030	How children develop mathematical thinking using the sequence in the textbooks: Evidence from Japanese lesson study videos.
1030 – 1100	Tea Break
1100 – 1300	Analyzing textbooks for the first grade: Number Concept, Addition and Subtraction
1300 – 1430	Lunch
1430 – 1630	The teaching sequence for learning how to learn mathematics from the first grade to third grade.

DAY 2 - WEDNESDAY (4 JULY 2012)

0830 – 1030	Expanding children's ideas through the teaching sequence of extension for the second and third grades: Multiplication and Division
1030 – 1100	Tea Break
1100 – 1300	Preparing the extension of children's ideas: Proportional Number Line
1300 – 1430	Lunch
1430 – 1630	How to find the Unit: Measurement, Fraction and Decimal Numbers.
1630 – 1700	Closing and Certificate Presentation

Note: This programme schedule may be subjected to minor changes without prior notice

INTRODUCING THE WORKSHOP FACILITATOR



Dr. Masami Isoda is an Associate Professor of Mathematics Education at the University of Tsukuba, Japan. He is also the Director of the Japan Society of Mathematical Education, and Director of the Japan Society of Science Education. Currently his major work is international corroborative study. He has been managing national projects by Ministry of Education in Japan and an international project by Asian-Pacific Economic Cooperation (APEC). He is also engaged in projects by JICA. His personal research topic in mathematics education is mathematization from a historical perspective. He published several books in English and other languages. His newest book is 'Mathematical Thinking: How to Develop It in the Classroom' published by World Scientific Publications.