

## Where to Stay

Hotel	Type A	Type B	Type C	Type D	Type E	Distance to Conference Venue
RECSAM International House	RM 80 nett (Twin-Sharing)	RM 85 nett (Twin-Sharing)	-	-	-	In Campus
Equatorial Hotel	RM 255 ++ (Single)	-	RM 341 ++ (Single)	RM 371 ++ (Single)	RM 500 ++ (Single)	7 km
	RM 295 ++ (Twin)	-	RM 397 ++ (Twin)	RM 427 ++ (Twin)	RM 500 ++ (Twin)	
Vistana Hotel	Room	RM164 nett (Single/Twin)	RM 232 nett (Single/Twin)	-	-	7 km
	Suite	RM 280 nett (Single/Twin)	RM 350 nett (Single/Twin)	-	-	

\*The rates are subject to change

\*Type A: Superior \* Type B: Deluxe \* Type C: Executive Deluxe/ Club Deluxe \* Type D: Premier \* Type E: Junior Suite

## About Penang

Penang is a tropical island resort situated in the north-western tip of Peninsular Malaysia. The climate in Penang is warm with temperatures ranging from 25 degree celsius (night) to 33 degree celsius (day). Travelling to Penang is convenient via most international airlines. Historically, travellers have been stopping at the port of Penang to view its natural and cultural attractions, to savour its wide variety of food and to meet its friendly people. Positioned in the middle of three large population centres, namely China, India and Indonesia, Penang has become home to people from these three regions.

Penang has now become an international beach resort as well as the 'Silicon Valley of the East'. This cosmopolitan state of 1.5 million people has been welcoming more than 3 million tourists annually. Penang has become one of the most culturally diverse destinations of the East where English is widely spoken and the locals are well known for their friendliness. The cities of George Town in Penang together with Malacca were declared Historical Cities of the Straits of Malacca in the list of UNESCO heritage sites in 2008. Recently Penang has also been rated second by readers of New York Times in its list of "44 Places to go for 2009".

## About SEAMEO RECSAM

SEAMEO RECSAM stands for Southeast Asian Ministers of Education Organisation-Regional Centre for Education in Science and Mathematics. Established by SEAMEO in May 1967, RECSAM is committed in promoting and enhancing the quality of science and mathematics education in the SEAMEO member countries: Brunei Darussalam, Cambodia, Indonesia, Laos PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, Timor Leste and Vietnam. RECSAM shares the vast expanse of the campus grounds with the Institut Pendidikan Guru Kampus Pulau Pinang (Institute of Teacher Education, Penang Campus) in Jalan Sultan Azlan Shah, Gelugor, fringing the city limits of Geogetown.

Since its inception RECSAM, one of its kind in the region, which is dedicated to the development of educational manpower, has been playing the role of a catalyst for the advancement of science and mathematics education at the primary and secondary school levels among its member countries. Ever surging forward, RECSAM is now in its 9th Five Year Plan (July 2010 - June 2015) and thousands of key educators have graduated from its training, development and research courses. As RECSAM forges ahead with its programmes and activities, it not only draws upon its reserve of resources and past experiences but also continuously examines the development of science and mathematics education in the SEAMEO region as well as in the world at large. In keeping with current global trends and developments, RECSAM carries out its science and mathematics education courses in the context of values and needs of changing societies.



# CoSMEd 2011



## 4th International Conference on Science and Mathematics Education

*Transforming School Science and Mathematics Education in the 21st Century*

15-17 November 2011  
SEAMEO RECSAM, Penang, Malaysia.

Organised by:  
Southeast Asian Ministers of Education Organisation  
Regional Centre for Education in Science and Mathematics  
(SEAMEO RECSAM)

In collaboration with:



The Ministry of Education, Malaysia



Penang State Education Department, Malaysia



Universiti Sains Malaysia



Universiti Pendidikan Sultan Idris, Malaysia

## important

Deadline for Submission of Abstracts	1 June 2011
Notification of Acceptance of Abstracts	15 June 2011
Deadline for Submission of Full Papers	1 July 2011
Notification of Acceptance of Papers	31 August 2011
Deadline for Early Bird Registration	10 September 2011
Deadline for Receipt of Full Papers in Camera-Ready Form	28 September 2011
Conference Dates	15-17 November 2011

dates

## Rationale

One of the issues that confront educators today is the concern of educating young minds to meet the challenges in a globalising world. Many countries are faced with the challenge of preparing citizens who will be able to address global, national and local problems. In this regard, science and mathematics knowledge has become essential as they empower people to usefully apply their knowledge more effectively to solve problems. There is however a need to educate the young so that they can fully utilise the power of science and mathematics, taking advantage of the technologies that are available. On the one hand, it is our hope to see more children being scientifically and mathematically literate, yet on the contrary we often see children become disinterested in science and mathematics through the way it is taught in schools. This conference thus aims to bring educators and researchers together to discuss and address issues in improving science and mathematics for the 21st century; developing children's ability to think scientifically and apply science and mathematical knowledge for personal as well as for the benefit of the community.

## Objectives

- o To provide a forum to review issues, exchange of ideas and share experiences on the development of science and mathematics education at all levels.
- o To discuss developments in Information and Communication Technology (ICT) integration to improve learning of science and mathematics.
- o To exchange ideas on continuing professional development as a means to sustain the development of high quality science and mathematics teachers.
- o To encourage the sharing of knowledge, skills and experiences of experts working on new strategies to sustain science and mathematics education reforms in teaching and assessment.
- o To strengthen professional networking among science and mathematics educators both locally and globally.
- o To maintain professional contacts to enhance cooperation among a consortium of international organisations and educational institutions to facilitate greater dissemination and exchange of expertise at an international level.

## Conference Theme

Transforming School Science and Mathematics Education in the 21st Century.

## Conference Tracks

- o Leadership (e.g. language)
- o Policy (e.g. Regional policies, regional assessment)
- o Teacher Education
- o Curriculum (e.g. interdisciplinary curriculum)
- o Pedagogy (e.g. pedagogies for digital natives, traditional versus virtual labs)
- o Assessment
- o Informal Learning (e.g. museum, industry network)
- o Values and Culture
- o Children with Special Needs (e.g. special education needs, gifted students, under achievers)

## Keynote Speakers



**Professor M.A. ("Ken") Clements**  
Mathematics Department  
College of Arts and Sciences  
Illinois State University, USA



**Professor Justin Dillon**  
Professor of Science and Environmental Education  
Department of Education and Professional Studies  
King's College London, UK

## Plenary Sessions

In addition to the keynote speakers, there will be renowned speakers in the plenary sessions who will discuss issues and innovative practices from around Southeast Asia.

## Parallel Sessions, Poster Presentation and Workshops

Papers based on the conference theme and tracks are welcomed. Educators who are interested in presenting their papers in the parallel session, poster presentation or in a workshop are invited to send in their abstracts not exceeding 500 words by 1 June 2011 and the complete paper by 1 July 2011.

## Submission of Papers

The abstract and final paper should use the MS Word Document format (.doc) or RTF (Rich Text Format) and should be sent by email attachment. The complete paper should be generally NOT longer than 10 pages on A4 size. The preferred format for abstracts and papers is single-spaced, Times New Roman, font size 12. Please avoid using other fonts or document formats. All papers are to be written using the APA publication guidelines.

## Conference Proceedings

All papers received will be peer reviewed. CDs of abstracts/full papers will be distributed to all delegates during the conference.

## Registration and Fees

Participants may register on-line at <http://www.recsam.edu.my/cosmed>. The Early Bird rate only applies if registration form is received by 10th September 2011. The registration fee will cover admittance to the conference proper, conference facilities, conference programme booklet, conference CD, refreshments and any scheduled reception or banquet during the conference. Payments are to be made by bank draft/ telegraphic transfer/ local order made payable to the following address:

### SEAMEO RECSAM

Bank A/C : 557157000647  
A/C Type : Current Account  
SWIFT Code : MBBEMYKLA  
Bank Name : Malayan Banking Berhad  
Add : 345-H, Gelugor Club Building, 11700, Gelugor, Penang, Malaysia.  
(All local and overseas charges are to be borne by the remitter)

	Early Bird (by 10 September 2011)	Normal (after 10 September 2011)
International participants	USD 290	USD 340
International students	USD 250	USD 300
Participants from SEAMEO countries	USD 270	USD 320
Students from SEAMEO countries	USD 230	USD 280
Malaysian participants	RM 580	RM 650
Malaysian students*	RM 530	RM 600

\* Students are to provide student card and official letter from the university as a proof.

## Cancellation Policy

- o 50% refund for cancellation received not later than 15 October 2011.
- o No refund for cancellation received after 15 October 2011.
- o Substitutions will be allowed if authorised in writing by the original registrant and RM 50 paid as administrative charges.
- o The organisers reserve the right to cancel or postpone the conference.

## Enquiries

Conference Secretariat  
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## Conference Venue

SEAMEO RECSAM  
Jalan Sultan Azlan Shah,  
11700 Gelugor,  
Penang, Malaysia.