

3. PARTICIPATION

Category/Official Delegates/Projects

3.1 Official delegates (2 teacher advisers and 4 student researchers) should be endorsed by the respective countries' Ministry of Education. The following table summarises the number of delegates and number of projects a country can officially send.

Categories	Maximum Number of Official Delegates		Number of Projects	
	Advisers	Students	Minimum	Maximum
Science	1	2	1	2
Mathematics	1	2	1	2

- 3.2 Advisers are teachers who have actually guided the students in undertaking the project.
- 3.3 Student researchers should be from the secondary school.
- 3.4 For the official delegates from the Indo-China countries (namely Cambodia, Lao PDR, Vietnam), Myanmar and Timor Leste, SEAMEO RECSAM will bear the full cost of airfares from the capital cities or the nearest international airport of the said countries.
- 3.5 For the official delegates from Brunei Darussalam, Malaysia, the Philippines, Singapore and Thailand, the cost of airfares will be borne by the respective countries themselves.
- 3.6 For the delegates from the Associate Member countries, all expenses will be borne by the countries themselves.
- 3.7 SEAMEO RECSAM will sponsor board and accommodation of the official delegates.
- 3.8 Parents and officials accompanying the delegates are welcome provided that all the expenses incurred will be shouldered by them.

4. THEME AND SPECIFICATION OF RESEARCH PROJECTS

4.1 Theme

The 7th Congress adopts the theme *Sustainable Solutions for the Local Community*

4.2 General Guidelines

- 4.2.1 The areas of research should be related to the application and the integration of knowledge in Basic Science (Biology/Chemistry/Physics/General) and Mathematics with Technology, Environment or Health which aims at improving the quality of life in the community for a better future.
- 4.2.2 Projects need to focus on the nature of the concept of sustainable community development and the three pillars of sustainable development: environment, economy and society.
- 4.2.3 The working language is English.
- 4.2.4 Projects must satisfy the theme of the Congress.
- 4.2.5 The SSYS forms (pg. 10 - 12) and the proposal(s) should be sent to the organiser by **31 December 2009**. Proposal(s) should specifically identify the category (Science/Mathematics) to which the project is being entered to.
- 4.2.6 Proposal needs to be written in a specific format as per attachment on page 18 and 19.
- 4.2.7 Notification of acceptance will be sent to all candidates on 15 January 2010.
- 4.2.8 Copies of the written report should be sent by **31 January 2010**.

4.3 Specific Guidelines on Research Projects

4.3.1 Content

The research project must:

- be focused on the given theme;
- be an original work;
- be a result of a current continuing or parallel scientific research and investigation and NOT a duplication of any previous research;
- demonstrate and apply scientific and mathematics principles or attempt to provide new concepts in the process of designing technological activities or creating technological inventions to meet the needs of societal development;
- have relevance or contribute to the livelihood development of society or community and environment, in meeting human needs and/or promoting the socio-economic growth of the society; and the community in particular;
- reflect the needs of the community and how it can be sustained; and
- be cost-efficient, environment-friendly and feasible.

4.3.2 Collaboration with lecturers, academics or scientists is highly encouraged. However, the scope of involvement of the collaborators should be clearly defined and described. The written report must specifically delineate the work done by the student(s) on the project.

4.3.3 Exhibits, Backboard/Backdrop, Materials, and Accessories for Display

All projects will be displayed in an exhibition for the public to view. The panel of judges will be viewing the exhibits for judging. The research project exhibit on display must:

- fit two display panels each with dimensions 0.9 m by 2.1 m;
- be sturdy and strong/durable with parts firmly attached; lightweight, can be easily set-up and taken down, transportable and self-supporting;
- be complete with accessories with the panels joined with hinges so that the project can be folded and unfolded easily;
- ensure that any information, pictures, graphs, or other images be held down with masking tape for easy removal or re-arrangement;
- provide safety measures in the case of electrical items or presentations with computers or chemicals; and
- not contain any live organisms, specimens, poisonous materials or chemicals which are toxic or explosive.

4.3.4 Accessories or Attachment

- The submission of projects involving the use of information and communication technology or multimedia has to include the relevant accessories or attachment, e.g. computer or video compact discs, CDs, slides, etc.
- During the exhibition of the projects, no LCD projector, computer, OHP, DVD player, or any audio-video equipment will be provided. Should the delegates require this equipment, they have to secure the equipment themselves.

- Common science laboratory apparatus (test tubes, beakers, thermometers, etc.) and mathematics tools (compass, rulers, etc.) will be provided upon request. Said request should be submitted along with the soft copies of the report at least one month before the actual event using the form provided.
- Two display panels, 1 table, 2 chairs and 1 power outlet will be provided for each project.

5. CONGRESS

The Science and Mathematics Congress is a venue where the delegates will present their projects to the members of the panel of judges and the public.

- 5.1 A delegate or one of the delegates (in case there are two of them) in a category (Science/Mathematics) will present the project.
- 5.2 Presentation should be done using MS PowerPoint. Presentation files will be collected from the delegates prior to the event. The use of OHP is also allowed. However, request for the equipment should be done a month before the actual event.
- 5.3 The order of presentation for each project will be determined by drawing lots. Each project will be identified by codes. The codes will be assigned to each project as they submit the abstract.
- 5.4 Presentation should only be for 5-10 minutes for each project. Should the presentation end before the time, the presenter should announce “end of presentation”. To remind the presenter of the time remaining, a notice board with the message “two minutes” will be showed. At the end of two minutes, a “thank you” notice will signal the end of the presentation.
- 5.5 Immediately after the presentation, a question and answer session will follow. Teams will be asked to prepare questions for this session. Each team will be assigned to ask a set of questions to another team.
- 5.6 A copy of the team’s written report will be provided to the team assigned to ask questions.
- 5.7 A team assigned to ask questions will be given a maximum of 5 minutes. A team may ask any number of questions provided that they are within the allotted time. Members of the team may help and support each other during this session. A “thank you” notice will signal the end of the session.
- 5.8 The quality of questions posed by a team and the quality of answers provided are part of the criteria for presentation.
- 5.9 Questions from the members of the floor will be entertained (within the time limit provided).

6. REPORTS FOR THE PANEL OF JUDGES AND THE PUBLIC

- 6.1 Delegates need to submit a copy of the written report, bound and in soft copy, formatted in MS Word and addressed to the organiser, on or before **31 January 2010**.
- 6.2 At least 6 hard copies of the reports need to be prepared for distribution during the Congress.
- 6.3 The soft copies may be sent to the secretary through this address:
baharulnizam_baharum@recsam.edu.my or baharulnizam@yahoo.com