

The 9th ASEAN Student Science Project Competition (ASPC 2023)

1 – 5 July 2023

At

National Science Museum Thailand (NSM)

The First Circular

Organized by



The 9th ASEAN Student Science Project Competition (ASPC 2023)

EVENT OUTLINE

Science is a significant fundamental foundation for every walk of life. Understanding and enjoying science is a basic necessity to improve the quality of life and gain an understanding of a rapidly changing world. Making science and technology an accessible subject is crucial for a developing country; therefore, much effort should be made to foster awareness, understanding, and enjoyment of science in young people. The **National Science Museum Thailand, Ministry of Higher Education, Science, Research and Innovation**, in collaboration with the **Science Society of Thailand under the Patronage of His Majesty the King**, have launched the project on the First ASEAN Student Science Project Competition since the year 2015 to promote science awareness through science project activities and to create a network of students/teachers among ASEAN communities including over 150 participants from ASEAN countries attending the event.

From the satisfactory outcome and feedback from the participating countries, the National Science Museum Thailand (NSM) and the Science Society of Thailand (SST) are proud to announce **The 9th ASEAN Student Science Project Competition (ASPC 2023)**. The aim of the competition is to encourage students to improve the 21st century skills, develop skills in science and technology such as experimentation, communication, and innovation. Participating in the competition allows the students in ASEAN countries to practice solving problems in daily life and provide a venue for students to foster friendships among ASEAN network with each other.

OBJECTIVES

1. To motivate students in integrating research knowledge and convey it to the public.
2. To encourage students to be creative and solve problems by applying scientific processes and skills whilst building a positive attitude towards science and technology.
3. To promote the exchange of knowledge, experiences, and culture among young people who are interested in science and technology in ASEAN countries.
4. To enhance a network of young people to be ready for the ASEAN Economic Community at an international level.

DATE

1 – 5 July, 2023 (5 days 4 Nights)

- Arrival date: 30 June 2023
- Event date: 1 – 4 July 2023
- Departure date: 5 July 2023

VENUE

National Science Museum, Thailand (NSM)
39 Moo 3, Klong 5, Khlong Luang, Pathum Thani 12120 Thailand

ORGANIZING COMMITTEES

- National Science Museum Thailand (NSM), Ministry of Higher Education, Science, Research and Innovation (MHESI)
- The Science Society of Thailand under the Patronage of His Majesty the King (SST)

PRELIMINARY PROGRAM: 1 – 5 JULY, 2023

This Preliminary Program is to assist all participants in planning their travel and events. The final program will be distributed on arrival at Registration Desk. All activities will be at the National Science Museum Thailand (NSM), in Pathum Thani Province (unless stated otherwise).

JULY	30 th (FRI)	1 st (SAT)	2 nd (SUN)	3 rd (MON)	4 th (TUE)	5 th (WED)
Morning		Registration				Education Program & Activity
		Opening Ceremony ----- Ice Breaking Team Spirit	Project Assessment <u>*Students ONLY</u> * Teachers will be in separate program	Cultural Visit		
Noon		Lunch				
Afternoon	Arrival	Orientation ----- Project Set-up (approx. 3hrs.)	Project Assessment <u>*Students ONLY</u> (cont.)	Cultural Visit (Cont.)	Awards Announcement & Closing ceremony	Departure
Evening		Dinner	Dinner	Dinner	Cultural Night by students & Farewell Dinner Party	

Note: Due to unforeseen circumstances, some programs may be subjected to change. In the event of this, all participants will be notified in advance.

PARTICIPANTS & CRITERIA

A. Number of Participants

- 1) **Participants from 11 ASEAN Countries;** Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Vietnam, Timor-Leste and Thailand.
- 2) **Students: Grade 9 to 12** at the time of competition date (1 – 5 July 2023)
See item B
- 3) **Teachers** See item C
- 4) **Representative Judge (optional)** See item D
- 5) **Adult in Charge (optional)** See item E
- 6) **Observer / Others (optional)** See item F

B. Criteria of Student and Project (ASEAN)

- 1) **School Level of Student**
At the time of competition date: Grade 9 - 12 (or equivalent in each country level)
- 2) **Each country in ASEAN:** can send **a total of 6 projects as a maximum.**
- 3) **Each project:** can have **a maximum of 2 students.**
- 4) **Each project must fit in the following categories:**
 - Category # 1: Physical sciences
 - Category # 2: Biological sciences
 - Category # 3: Applied sciences

Important Notice:

- (1) After submitting the Registration Form, the participant **CANNOT** change the category. The participant **MUST** check carefully before selecting a category.
 - (2) Preferable/Optional: We recommend submitting a maximum of 3 projects per category for each project type.
- 5) **To ensure that all students will fully benefit fully from their participation, Students should:**
 - Study in science-based subject;
 - Possess good oral / conversation proficiency in English;
 - Be willing to network with fellow students
 - 6) **Pay of the registration fee:** 100 USD per project

C. Criteria for Teachers

- Maximum **2 teachers per country**
- Possess good oral / conversation proficiency in English;
- Be willing to network with fellow teachers

D. Representative Judge (optional)

Each country is allowed to have one (1) representative to be a judge in the student project competition. The representative judges will take part in the judging panel for this science project competition, the representative must be qualified as follows:

- Be an expert or personnel in Science, or educational or research institution
- Able to communicate and represent as a judge of the competition
- Must **NOT be a teacher of their students or their projects**
- Possess good oral proficiency in English

Note: the Representative Judge role is optional, if any country DOES NOT wish to have a Representative on the Judging Panel, then bringing the other adult (beside registered teachers) is not necessary.

E. Adult in Charge (optional)

Each country is allowed to have one (1) Adult in Charge to take care of the whole delegation from its own country. The Adult in Charge can be the same person as representative judges as long as the qualification in item D is met.

F. Others / Observers

Other extra persons (NONE of the above categories in items A to E) are NOT permitted to participate in the ASPC competition, activities and functional event. However, if the extra persons would like to participate in the session of Opening or Closing Ceremony, he/she **MUST register as the Observer, and pay for the registration fee.**

Please contact the ASPC organizer for more details on Observer registration and cost.

PROJECT CRITERIA

A. Overview of project

- Creative thinking and application
- Application of scientific method
- Knowledge, presentation and understanding
- Adequate record of evidence
- Value to science and society

B. Overview of project display presentation

- In accordance with the specified format
- Features of the presentation; appearance and creativity
- Use of appropriate language and scientific terminology
- References / Bibliography

C: Criteria of the project

- The project **must NOT participate** in **ASPC**
- The project **must NOT win any awards** from the following events:
 - Regeneron ISEF
 - Genius Olympiad
 - European Union Contest for Young Scientists, EUCYS
 - Beijing Youth Science Creation Competition, BYSCC
 - International Conference of Young Scientists, ICYS
 - Taiwan International Science Fair, TISF
 - Another event, which has more 10 Countries to join to the event.

D. Judging

- All students must follow the regulations and compete for the awards
- Judging standards for overseas and domestic students are the same
- The decision of the committee is final.

E. Awards

- **ASPC 2023 Project of the Year** : Cash, Trophy, Certificate
- **Award for each category**
 - First Prize : Cash, Trophy, Certificate
 - Second Prize : Cash, Trophy, Certificate
 - Third Prize : Cash, Trophy, Certificate
 - Consolidation Prize : Cash

F. Project Presentation

1. Oral Presentation Requirements

- Oral presentation time: 7 minutes
- Questions and answer: 8 minutes

2. Display Requirements and Safety Regulation

Participants must follow the regulations for displaying posters or project prototype.

2.1 Display Requirements

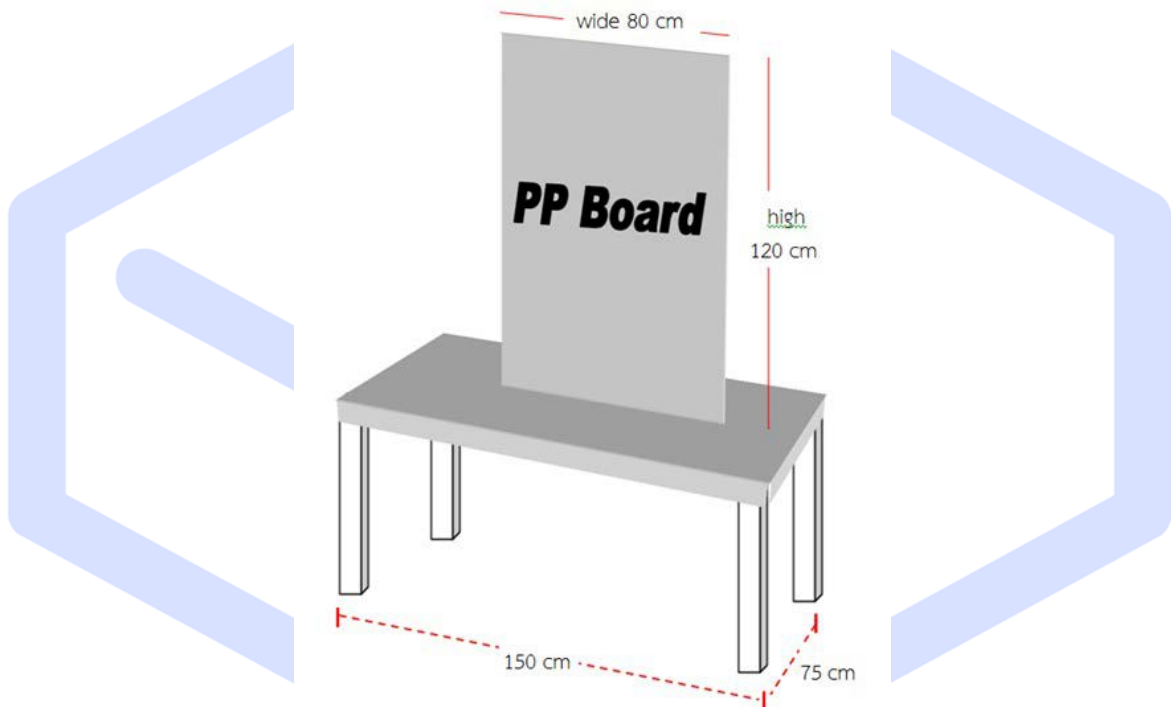
- **Display board (80x120 cm) and a table (75x150 cm) will be provided for displaying poster at the exhibition hall (as shown in the illustration below).**
- The size of display board can be used to display poster as follows:

PP Board for displaying

- Width: 80 centimeters
- Height from table top: 120 centimeters

Table size

- 75 x 150 centimetres



- Poster is allowed to display **on ONE SIDE of the panel ONLY.**
- Panel with poster **MUST** be placed on the table provided by the organizer.
- **If you wish to bring your own panel board with poster, it must be within the dimensions as indicated above.**
- All panels, posters, project materials and equipment must be placed within the allowed dimensions of the table provided and in front of the poster board. **Otherwise, the judges may consider to reduce score, reject or disqualify the project.**

2.2 Safety Requirements / Regulations

➤ **Prohibited objects (NOT allowed to display) at the competition:**

- Soil, sand, rock, cement, waste samples, even if permanently encased in a slab of acrylic.
- Taxidermy specimens or parts.
- Preserved animals.
- Human or animal food in the demonstration of the project.
- Microbes and living things/organisms.
- Body fluid or parts of human/animal such as blood or urine.
- Sharp items such as syringes, needles, knives.
- Flames or highly flammable materials.
- All hazardous chemical and substances or devices such as poisons, drugs, firearms, weapons, bullet, reloading devices, explosives, radioactive isotopes, carcinogens, high power lasers, open-cell or wet-cell batteries.
- Items that may have contained or been in contact with hazardous chemicals (Exception: Item may be permitted if professionally cleaned and document for such cleaning is available).
- Materials that are patented, acknowledgements must be shown (including pending patents) for CDs, business cards, flash drives, brochures, booklets and printed materials.
- Internet or email connections as part of displaying or experiment the project.
- Any other display that is considered by the organizer as harmful objects.

If you are not sure about any aspect of display, panel, props, or of the project, please contact the ASPC organizing committee before 16 June 2023.

➤ **Displaying Photographs and Audio-Visuals**

- Photograph, visual image, audio-visual presentation is allowed.
 - Must not be offensive or inappropriate (this includes image of animals and humans)
 - References (credit line) must be shown for photographs / images / any other aspects of presentation that are taken from other people's work, including the work from the internet, magazines, newspapers, journals, photographs, images, presentations which are not made by the project owner.

➤ **Electronic Equipments**

- The organizer will provided power source with 220 V, AC, single phase and 60 cycles. No multi-phase.
- Electrical devices must be protectively enclosed, non-combustible.
- Electrical wire, switches and metal parts must have insulation and safety fuses.
- Power supply must be off when not in use and put clear label for warning.

➤ **Other Regulations**

- No changes or modification of the projects can after the end of set-up date which will be announced on the registration day at the event.
- The Organizer will give each project a number upon registration on the first day.
- If the project produces sound, lights or odors, it must be under-control of the organizer, except during the judging of the project.

EXPENSES / SUBSIDY PROGRAM

A. The ASPC Organizer will provide and arrange for:

(These arrangement are provided for the registered participant who is Student / Teacher / Judge / Adult in Charge only, NOT include Observer.)

- 4 (four) night accommodation during the time of event.
- Meals (breakfast, lunch, dinner) during the event.
- All activities and programs during the event.
- Domestic transportation (to / from airport, venue and activities) during the event.
- Study visit.

B. PARTICIPANTS ARE RESPONSIBLE FOR:

Each **participant must arrange**

- International round-trip air tickets between home country and Bangkok, Thailand.
- Medical and travel insurance covering the event period.
- Personal expenses.
- Passport and VISA fee.
- All other expenses not detailed in item A

C. ACCOMMODATION

- Dormitory at the National Science Museum Thailand (NSM)
- All participants will be arranged to share room with the same gender.

IMPORTANT DATE & INFORMATION

A. The “REPLY SLIP” (If interested in Participating the ASPC Event, please send this form)

- See the Appendix : Attachment # 1
- Submission By **28 February 2023**
- By Sending E-mail to:

to: aspc2Thailand@gmail.com
cc: patcharaporn@nsm.or.th and Kittapard@nsm.or.th

B. The “REGISTRATION FORM and ABSTRACT FORM”

- Students: Attachment # 2
- Teachers: Attachment # 3
- Representative Judge/ Adult in Charge (optional): Attachment # 4
- Submission By **26 May 2023**
- By Sending E-mail to:

to: aspc2Thailand@gmail.com
cc: patcharaporn@nsm.or.th and Kittapard@nsm.or.th

C. FLIGHT DETAILS

- After receiving the Registration form, the ASPC coordinator will send you the confirmation by E-mail, then please send back your flight information By **16 June 2023**

EVENT COORDINATORS

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