

# **The 2020 National Tsing Hua University Chemistry and Physics Cup in Malaysia**

## **General Information and Regulations**

### **I. Objectives**

The National Tsing Hua University Chemistry and Physics Contest in Malaysia (hereinafter referred to as “The NTHU Cup”) is specifically organized to stimulate scientific interests and creativity. It also engages these students with academic potential to learn from each other, and therefore, enhance the quality of science learning.

### **II. Organizers, Hosts, and Co-organizers**

1. Organized by National Tsing Hua University (NTHU) and the NTHU Alumni Association in Malaysia.
2. Hosted by the NTHU Office of Academic Affairs (including the Divisions of General Academic Affairs and Center for Admissions and Strategies), Department of Chemistry, and Department of Physics.
3. Co-organized by the Federation of Alumni Associations of Taiwan Universities at Malaysia.

### **III. Contest Registration Information**

1. Eligible contestants:

Sophomores and Seniors at Malaysian Independent High Schools, and sixth-grade students at the National-type Middle Schools.

2. Registration:

Registration will be on first come-first serve basis; seats are limited. Contestants can register for one subject or both.

Chemistry: Seats limited to 240 contestants. Sign up by schools only. Up to 10 students per school.

Physics: Seats limited to 240 contestants. Sign up by schools only. Up to 10 students per school.

**3. Registration dates:**

The registration will be open from Monday, April 13, 2020 at 10 a.m. to Friday, May 22, 2020 at 5 p.m. Depending on the registration, the organizers may close or extend the registration date. Registration updates will be posted on the contest website: <http://scimy.site.nthu.edu.tw>

**4. Registration method:**

Online registration only. To register, please go to the NTHU Cup website:

<http://scimy.site.nthu.edu.tw>

**5. Registration status:**

The registration status will be released on the NTHU Cup website on Tuesday, May 26, 2020.

**6. Registration fees:**

The registration is free of charge as the goal of the NTHU Cup is to promote an academic interest in chemistry and physics.

**IV. Contest Date, Venue, and Schedule**

**1. Date: Sunday, July 12, 2020.**

(1) Chemistry contest (in written exam format): 11:00 a.m. (Doors open at 10:50 a.m. and the exam will start promptly at 11:00 a.m.)

(2) Physics contest (in written exam format): 1:30 p.m. (Doors open at 1:20 p.m. and the exam will start promptly at 1:30 p.m.).

**2. Venue: Chong Hwa Independent High School, Kuala Lumpur.**

**3. Schedule:**

Time	Subjects	Workshops
10:00 - 10:50 a.m.	Contestants check in at Chong Hwa Independent High School, Kuala Lumpur	
10:50 a.m. - 11:00 a.m.	Chemistry contestants arrive	

11:00 a.m. - 12:20 p.m.	Chemistry contest begins	<b>Workshop 1:</b> Research findings and trends at NTHU. Open to all the teachers and contestants who have not registered for the chemistry contest.
12:20 p.m. - 1:20 p.m.	Lunch (Provided by the organizers)	
1:20 p.m. - 1:30 p.m.	Physics contestants arrive	
1:30 p.m. - 2:50 p.m.	Physics contest begins	<b>Workshop 2:</b> Research findings and trends at NTHU. Open to all the teachers and contestants who have not registered for the physics contest.
2:50 p.m. - 3:10 p.m.	Break	
3:10 p.m. - 5:00 p.m.	Contest question review / Q & A / Introduction to NTHU	Physics contest (Phase 2 - Oral defense)
5:00 p.m. - 6:00 p.m.	Awards ceremony (Complimentary meals will be provided after the ceremony)	

Notes:

- (1) The contestants are not allowed to enter the exam venue once the contest has begun 20 minutes of contest.

- (2) The two workshops will mainly focus on science subjects (topics include scientific research findings and trends at NTHU); therefore, the high school representative (or the team leading teacher) is preferably a science teacher. The organizers will announce the topics one week before the contest on the NTHU Cup website: <http://scimy.site.nthu.edu.tw>.

## **V. Contest Information**

1. The contestants will take written exams for both chemistry and physics subjects. The exam time is 80 minutes.
2. Chemistry exam: The chemistry exam uses comprehensive question types (presented in Simplified Chinese-English bilingual version), including both multiple choice questions and non-multiple-choice questions. Same-score rules are addressed on the cover of the contest booklet and will be used as a basis for ranking.
3. Physics exam: The physics exam uses multiple choice questions. Same-score rules are addressed on the cover of the contest booklet and will be used as a basis for ranking. If many contestants receive same score, the organizers will hold a second-phase one-on-one oral exam.
4. The contestants must use a 2B pencil on the multiple choice questions answer sheet and use blue pen or black pen to answer non-multiple-choice questions.
5. This year, contestants are allowed to use the electronic calculators that are commonly used in Malaysian high schools. However, it may not include storage and programming functions.

## **VI. Venue Information**

This contest does not issue admission tickets. The contestant must bring student ID (photo required) or Malaysia Identification (Kad Pengenalan) for admission. The organizers will announce the seats and contest venue information one week before the contest on the website: <http://scimy.site.nthu.edu.tw>. The contestants can print out the seat and contest venue information from the NTHU Cup website.

## **VII. Rules**

### **1. General matters**

In order to implement the provisions of the rules, the proctors have the right to check any suspicious items that may interfere with the order of the contest or may compromise the fairness of the contest. The contestants shall cooperate with the instructions from proctors; otherwise, they will be suspended or disqualified due to the circumstances.

### **2. Entry and exit**

- (1) Contestants must bring their student ID (photo required) or Malaysia Identification (Kad Pengenalan) to enter contest venue. The IDs must be placed on the table during the contest as they will be checked.
- (2) Contestants will not be allowed to leave the contest venues without permission after entering the venue and before submitting the answer sheets; otherwise, they will be disqualified. If there is an unexpected accident (such as illness), those who must leave the contest venues temporarily must be accompanied by the staff, but may not request an extension of time or a makeup examination.
- (3) Contestants will not be allowed to enter the contest venue once the contest has begun. The contestants must stay at the exam venue for at least the first 50 minutes of the contest.

### **3. During the Contest**

- (1) Use of electronic devices will not be allowed during the contest, including mobile phones, pagers, or PDAs. The contestants must turn off their mobile phones, timers, alarms, sounds, or any functions that might affect the order of the contest. Violators will be deducted 2 points for the subject.
- (2) If there is any fraud such as impostor, escorting, cheating, or looking at the answers of others, the violators will be ordered to leave the exam venue. The results of the exam will be deemed invalid and the violator will be disqualified.
- (3) Contestants shall not have any of the following incidents as violators will be disqualified from the contest, and the test results will be deemed invalid: (1) Swap seats, swap answer sheets (cards), or swap test questions; (2) Pass documents, reference materials, or relevant signals; (3) Bring books and documents to the contest venue; (4) Write relevant text on tables, chairs, stationary, limbs or

- elsewhere; (5) Those who forcibly hand in the answer sheets (cards) and leave the contest venue, without abiding the regulated time limit; and (6) Bring unnecessary items other than those specified are reinstated after being advised by the proctor; the score will be deemed as zero points.
- (4) No eating or drinking (except drinking water), smoking, chewing gum, etc. shall be allowed during the contest. Any violator will receive a 2-point deduction.

## VIII. Awards

### 1. Individual Awards:

The top 10 contestants for the chemistry and physics subjects will be awarded prizes, certificates and bonus prizes.

**One Gold medalist:** The prize is 1,600 MYR (approximately 12,000 NTD) and a certificate of merit.

**One silver medalist:** The prize is 1,000 MYR (approximately 8,000 NTD) and a certificate of merit.

**One bronze medalist:** The prize is 600 MYR (approximately 5,000 NTD) and a certificate of merit.

**Seven Honorable Mentions:** Bonus prizes and a certificate of merit.

If a higher-ranked prize is increased by the contestants' equal score, it may affect the number of subsequent medal places. For example, if two contestants win a gold medal and a third contestant will receive a bronze medal (not a silver medal). The result of the increase in quotas may result in a shortage of post-position medals.

## Scholarships

The top three "Individual Awards" recipients in physics and chemistry will be awarded the "Tsing Hua Interdisciplinary Program" pre-admission certificate, a first-year tuition scholarship and additional scholarships upon enrollment.

The fourth to tenth Individual Award recipients will be awarded the "Tsing Hua Interdisciplinary Program" pre-admission certificate, a first-year tuition scholarship, and will be considered in the scholarship priority list. Those who obtain a pre-

admission certificate are required to apply in accordance with the "Regulations regarding international students undertaking studies in Taiwan" or "Regulations regarding study and counseling assistance for overseas Chinese students in Taiwan" before the deadlines listed on the admission certificate.

2. **Group Awards:** In order to be eligible for the “Group Award”, each school must have at least four contestants participating in the contest.

This “Group Award” will select one chemistry and one physics team, each of which must comprises of “top four contestants in each school with the highest average scores.” Each team will be awarded a prize of 1,600 MYR (approximately 12,000 NTD) and a certificate of merit. The school’s representative (or the group leading teacher) will be awarded with a certificate the gifts.

## **IX. Other**

1. Participating teachers and students will take care of accommodations and transportation at their own expense.
2. The organizers reserve the right to amend this general regulation if there are any outstanding issues.

## **X. Contact Information**

1. For registration and competition questions: Please contact National Tsing Hua University +886-3-5715131  
Miss Kwong (e-mail: [spadms@my.nthu.edu.tw](mailto:spadms@my.nthu.edu.tw), ext.33005, for registration)  
Miss Cheng (e-mail: [academic@my.nthu.edu.tw](mailto:academic@my.nthu.edu.tw), ext.35066)  
Miss Tu (e-mail: [manlin@mx.nthu.edu.tw](mailto:manlin@mx.nthu.edu.tw), ext.33616, Chemistry contest)  
Miss Fang (e-mail: [lfang@phys.nthu.edu.tw](mailto:lfang@phys.nthu.edu.tw), ext.42512, Physics contest)
2. For accommodations and transportation: Please contact The Federation of Alumni Associations of Taiwan Universities, Malaysia at [mynthu2018@gmail.com](mailto:mynthu2018@gmail.com)  
Website: <https://sites.google.com/view/mynthu2020/home>  
Tel: Mr. Ang Seah Heng (+6012-6270693), Miss Liow Mee Leng (+6012-3788603)