

# HKASME June--2023 Mail Pack

< A charitable institution since 15 May 2010 under the Section 88 of the IR Ordinance. >  
< Serving ALL teachers since 1964 ... >



## 2023 --> to 60<sup>th</sup> Anniversary



>>\* Marching towards our **60<sup>th</sup> Anniversary** (since 1964).... Check new items in this mail pack

leading to **2024** – the Association 60<sup>th</sup> Anniversary (\*Esp. the “**60<sup>th</sup> Corner**”)..... → ...

whether you are New or Old members – think what you would contribute to the celebration!!!

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### > Intn'l Year of 2023 :: >>

>>(\*)\* What are the global problems? .... Is Food & Health in your category? India's proposal to observe an International Year of Millets in 2023 was approved by the Food and Agriculture Organisation (FAO) in 2018 and the United Nations General Assembly has declared the year 2023 as

the **International Year of Millets (IYOM-2023)** .!!!

??- Millets? What are they? Why focus on that? How?



> Check for more at

<https://twitter.com/IYM2023> ... !!! You could explore and get prepare for your OWN students in 2023 from such activities! >>....

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Items in this pack:

◆ **Council News** – ☺ **Towards the Year END ..&...&... Marching to 60<sup>th</sup> -2024** P.1-6



◆ **“60<sup>th</sup> Corner”** – (60-8) Life-long Activities of

HKASME < 6: The Web Presence : [www.hkasme.org](http://www.hkasme.org) .... > P.7-11

◆ **“STEM Corner”** -- (ST-1) World Environment Day (5<sup>th</sup> June) (ST-2) A powerful climate solution from just below ocean's surface (by seagrass) **P.12-13**

◆ **Science News** – (S-1) United Arab Space Exploration (S-2) **IYOM-2023** ... More..P.14

◆ (S-P1) Primary STEM Project Competition 2022-23 (常識百搭) **FINAL is COMING BACK** – with vast Exhibition for WHOLE DAY on 11-May,2023 at HK Central Public Library Hall!!! **P.15**

◆ **Chemistry News** – (C1) **HKChO (Chemistry Olympiad)** – Theme: “**Waste – Second Life – Chemistry**” – Final Results (C2) Flexible Silicon Solar Cells **P.16**

◆ **Biology News** – (B-1) More about “Environment Day” – Study casts doubt on cultivated meat's low carbon promise ...**P.17**

◆ **AGM News** – **P.18-24**

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◆ **ETV News** -- **P.26**

◆ **Resources Collection** -- Stock is LOW! ... “Element Cubes”! “Element Packs”! New “Periodic Table items” **P.27-28**

◆ **M'ship Form** – **P.18-24**



◆ **50 years of World Environment Day!?** **How would you link plastics to your students' life ?? ...**

>> ..... Check relevant details and prepare your students for the **STOP\_plastic programs??**

> Living in a pandemic means we have had to accept changes to many aspects of our daily routines

AND ISSUES of POST-COVID19 – including learning & teaching!



## Council News

☺☺☺ Towards the Year End ...&...& Marching to 60<sup>th</sup> -2024 (8) ... ☺☺☺

The school year 2022-23 has a special scene with the gradual change of pandemic closure to re-open of normal activities. However, it's still not as "normal" as the pre-pandemic as the globe is still under the threat of different strains of viral infection and flu types. So, we are still facing changes with different schools drafting different policies for different conditions.

As most of our routine activities resume, schools (in fact, parents and students) are eager to apply. Yet, may be there are new teachers who are not so familiar with our usual application processes; many phone up to Office ask if they could still apply after the deadline! Due to overwhelming applications in many activities, we could only just turn down their request after the deadline. AGAIN, we could only advise teachers to check the WWW as many activities had been posted months before the deadline. If nothing special appears, most activities would be organized at similar time throughout the Year! Teachers could easily trace back our WWW for the past year and mark their calendar for the 2023-24 plans!

Though most organizers are glad to have face-to-face activities back, some coming activities may be through ZOOM again due to recent high-rising infections around. And, there may be limited places for each session, teachers are urged to apply earlier and again remind ALL again that no more admission after the deadline.

We hope teachers could adapt to the new environment with fresh ideas for their coming school year 2023-24! May be the past could give us some insights. So, the 60<sup>th</sup> Anniversary (1964 to 2024) Corner in this pack is about another aspect of life-long activity – "Web Presence of HKASME.org". As most could only read the news online without really participated in the drafting and maintaining of the WWW materials, the selected figures shown should be of interest to all – particular for new Council Members! The maintenance of such is really a hard job but is crucial for our future development.

Again, we would like to thank our dedicated colleagues in helping and supporting different activities in the hard times and we hope the 60<sup>th</sup> Anniversary could come with something special in the coming year.

Afterall, just to remind teachers about the ordering of references and tools from the Office. We must alert all teachers that delivery time for many orders will be much longer than before due to the global viral impact on logistics. Hence, if you want to place orders for certain

materials, please be patient.

For latest updates (including cancellation) of the SME activities, the usual channel is our web: [www.hkasme.org](http://www.hkasme.org) or phone the Office (23330096, 23337602) – we still open as usual.



Stay safe and be prepared for further outbursts

The Council

June 2023

< *The Office will stay operation EXCEPT for serious incidence!* >

\* Thanks for all donations in the past 59 years that support the Association to this day.

Donations are welcome, either for specific event or for general support. The HKASME is a charitable organization under the section 88.

... Marching towards the 60<sup>th</sup> ....>



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Update News at <http://www.icaseonline.net/>

( ICASE = "International Council of Associations for Science Education". HKASME is one of the founding member of ICASE. )

>> NEW:: COVID-19 PHENOMENON-BASED LEARNING (PhBL) ENGINEERING CHALLENGE






>> NEW resource can be downloaded at ... <http://www.icaseonline.net/coronavirus.pdf>  
"GUIDANCE on active learning at HOME" !!! <<< Grasp your copy NOW!

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**\*\* Up-coming Events of HKASME .... \*\***

HKASME Coming Issues ... due to Impact of Coronavirus Infection ... may be..

>> Always check updated news at [www.hkasme.org](http://www.hkasme.org)

<u>Activity / Issue</u>	<u>Current situation</u>	<u>Remarks</u>
<b>“60<sup>th</sup> Corner”</b>  > a NEW Column to recap important events in the Association history leading to 2024 -- the 60 <sup>th</sup> Anniversary	<b>(60-8) : Life-long activities of HKASME &lt;6: The Web Presence of SME &gt;</b> <i>{note: (60-1) to (60-7) in Sep to May-Pack...}</i>	Members could contribute to this Column with notes, special items, blessings, etc... Just email us: <a href="mailto:enquiry@hkasme.org">enquiry@hkasme.org</a>
<b>“Chemical Celebration of HKASME-60”</b> <b>Batch-2</b> > a NEW competition to celebrate our 60 <sup>th</sup> Anniversary	Completed with results posted online & awards issued to all winners	Check details online and also Report for “Batch-2” on WWW (with results). A final overall report will be published in the Sept. SME Journal
Sales of equipment & references	Office still operate within our limits.	Phone (23330096, 23337602) ++ ONLINE data & order
 <b>Digi Science Video Competition 2022/23 – Theme: “Food Testing in daily life”</b>	<b>Results posted online</b>	Check WWW for details newspaper interviews and further comments later.
<b>Chemistry Olympiad for Sec. Schools</b> – Theme: “Waste – Second Life - Chemistry”	<b>ALL completed</b>	Check WWW for details about the Finalists
HKBLA 2022-23 ALL COMPLETED...	➤ ALL completed	Check results online
 <b>25<sup>th</sup> Primary STEM project Competition (常識百搭)</b>	Final Exhibition at Central Public Library (11/5/2023 [THU]) completed. Final Results online at <a href="http://hkcity.net">hkcity.net</a>	This is the 25 <sup>th</sup> Anniversary!!!
 <b>2023 Science Assessment Test (for S2 to S3)</b>	Results checking & Reports preparing, etc.	Debriefing & results analysis – seminar will be online !!!
 <b>ICO 2023</b> (previous ANCQ) by RACI, Australia.	<b><u>Application completed – Sorry for those LATE!</u></b> Test date at your OWN school during Jun to July.	Results to be expected by Sep-2023!

>>> Though the spread of Coronavirus is diminishing, no one is sure of anything in the future. In case that the activities have to be cancelled, the most update information will be posted via our webpage: [www.hkasme.org](http://www.hkasme.org).

>>> For some routine activities, regret that they have to be cancelled or delayed!!! If you have any suggestion that they could be handled safely, please forward to our managers for consideration in coming activities!!!

➔ Resources for New Year (2022-23)- “Element cubes”, “metal packages”, New “Periodic Table” items !!! ➔ Check details at end of this Mailpack. --- Ordering References / Materials --> phone up the Office for order & enquiries. Check update catalogue at [www.hkasme.org](http://www.hkasme.org).  
 ➔➔ **Some books (Maths & Chem) are on sale .... about 50% OFF!** -->> CHECK at office!

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## (60-8) Life-long Activities of HKASME-60 <6: The Web-Presence >

This 60<sup>th</sup> Corner is about the story of putting the Association (HKASME) in the WWW – seemed normal at present (in the 202x), but a real burden in the 1990s for the Association – who and how to initiate and maintain?

IT advances much over these years and planting the Association in the WWW seemed a normal official task. However, from the past history, that is actually a difficult task. That mainly linked with resource problems – people (in-charge official, information supplier [co-operation of committee members], the IT-technician, ...), time and finance (the registration fees of the web-URL, maintenance of hardware and software), etc. Since 1990s, the Council had mentioned many times that the Association should have a webpage for posting the Association's routine activities and communicate with members and the public. However, it's easier to say than done. And, for a long time, the communication was still via mailing packs!!!

NOT many SME members could remember that the first HKASME web-presence was actually designed and hosted under the umbrella of the [www.ust.hk](http://www.ust.hk). Yes, it was the ETC (Education Technology Centre) of HKUST that helped us to establish the web materials for the Association (*check Fig. 1*). Why UST? Just because our members in the 1990s have close contact and co-operation with the academics there. Some professors were actually our advisors in the 1990s and the UST had helped a lot in providing venues and facilities for our activities – e.g. the AGM, the Maths and Science Trail, ... Very often, they provide judges for many of our activities, e.g. the Maths competitions, the HKChO (Chem Olympiad), etc. The then ETC (the “Centre for Education Innovation” now) had helped in many of our events – though serving the UST as its prime role, also tried to keep close contact with the secondary sector as our students will be their potential target! The UST then was actually quite a “young university” (first established in 1991) and the academics were also “young” enough to break traditional rules – one of which was providing assistance to the HKASME to have its first webpage in the history. After some discussion between the Centre's administration and the Council's IT-co-ordinator and passing on the materials of HKASME to UST, the **first HKASME webpage (as observed in Fig.1 below)** appeared in 1993. Another special offer by the UST then was providing the right of some members to be “Researcher in-residence” of the HKUST. Such special fellows could gain access to some UST facilities – e.g. providing Library Card and right of using many facilities, borrowing venues for activities that UST would collaborate, ...

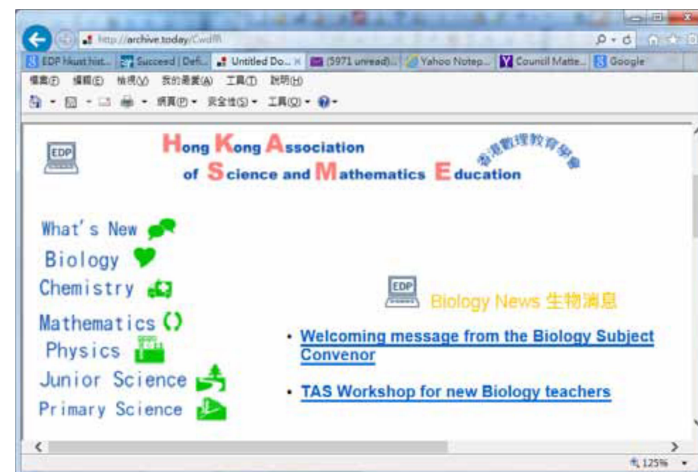


Fig 1. The first HKASME web-presence was designed and hosted under the ETC of HKUST (1993).

[ETC = Education Technology Centre, Now this becomes the “Centre for Education Innovation”]

It is not surprised that Professor Paul Chu has agreed to be the President of HKASME since 2006 (after the retirement of our first President Sir Lee Quo Wei). Other than providing assistance in maintaining the SME-web, there were even more activities that was initiated by the UST academics (check more Links with HKUST below).

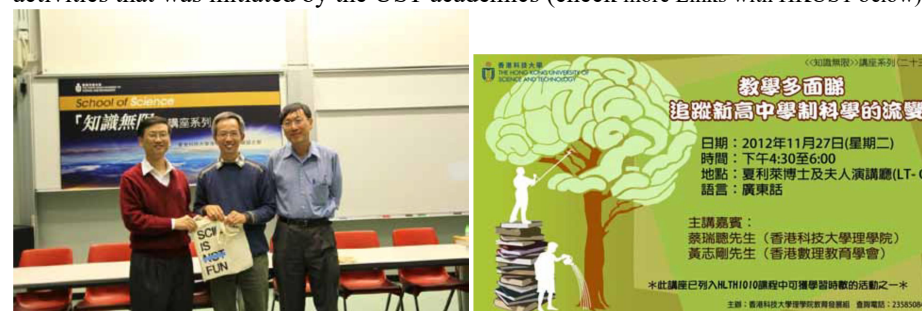


Fig. 2 (Nov-2012) ... The above talk (initiated by the UST and invited Council member as guest speaker) was a course credit for the HKUST students with program details as indicated on right.

Of course, the dependence on UST for such web-service is not convenient and may not work in the long run. Hence, the Council decided to prepare for a self-owned web-URL and the mode of handling the Association-web as a routine task. After years of study and trial, the Council decided to provide financial support for registration of the [www.hkasme.org](http://www.hkasme.org), finding a commercial host to maintain the basic frame of the web which has the similar appearance as what you see NOW online! (see Fig 3)



Fig. 3 -- The usual frontpage ( [www.hkasme.org](http://www.hkasme.org) ) for recent years : SINCE 2000 !!!



Actually, the daily maintenance of our WWW still relies on the Office, some part-time technicians and the web-host company. Other than basic information and posting of different activities, some activities could allow online-application and payment. During all these years (since 2000), different members have suggested many different IT-mode for operation (e.g. via facebook, twitter, etc...), it is still the shortage of manpower to keep all different platform(s) alive. And, the web still appears as somewhat a primary base for the Association in the virtual space.

Finally, we must thank all those who had worked hard for the establishment and maintenance of the [www.hkasme.org](http://www.hkasme.org) along the 30 years (1993 to 2023). Besides technical issues, the SME\_web presence had also been involved in many different activities with many different collaborators – namely the Agriculture, Fisheries and Conservation Department, the RTHK, .... (Check the figures below)!!!



Sep-2003 : a joint organized seminar (with Fish &

Agricultural Department) about environmental protection for students and teachers



2003 HKChO final round competition (Theme: Chemical

Detective)



The Council invited dedicated members to discuss about the future development of the HKASME (2003)

Web cooperation in the early days: e.g. with RTHK education section ...(2004)



[X3] "Science Explorer" under RTHK\_etv -- HKASME was an advisor (2004).

[http://sciexplorer.etvonline.tv/scienceexplorer\\_home.html](http://sciexplorer.etvonline.tv/scienceexplorer_home.html)



2008-09 HKASME has involved in a very popular

program (Tutor ONLINE) -- hosted by Radio-TV HK since 2010.

香港電台製作的「上網問功課」節目，透過媒體推廣教育



2013 AGM – the Council reported the revised version of

[www.hkasme.org](http://www.hkasme.org) The basic frame has been used until NOW (2023).



2013 AGM: a year before the 50<sup>th</sup> Anniversary of

HKASME with more web materials online from different committees and some challenging items as the Association marched towards the then 50<sup>th</sup> Anniversary!

In the coming 60<sup>th</sup> Corner, more different activities with different background will be mentioned. See you next round (60-9)!

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 {{.. Note: The first article of the “**60<sup>th</sup> Corner**” Series is (60-1) “1964? What happened?” -- in the HKASME September-2022 Mailpack. }}

\*\*\* << **STEM Corner** >>\*\*\*

**(ST-1) World Environment Day:: 5-June of each year .... promoted by ...**



2023 is the 50th anniversary of World Environment Day will be hosted by Netherlands and Ivory Coast, with the theme of “solutions to plastic pollution”.

The United Nations Environment Programme (UNEP), which promotes the day’s observance among all UN member nations, is in charge of organising events for it.

How would you plan the issue for your students? What will you do to get different elements of STEM involved in your students’ study?

Read more at: <https://www.studyiq.com/articles/world-environment-day/>

**(ST-2) A powerful climate solution from just below ocean's surface (by seagrass)**



Restoring seagrass meadows is one tool that coastal communities can use to address climate change, both by capturing emission s and mitigating their effects ... Through carbon removal, collection and storage, seagrass helps tackle climate change.

WWF is working with several partners and donors to bring these incredible underwater meadows back to life, by launching the biggest seagrass restoration project ever undertaken in the UK.

Seagrass Ocean Rescue is WWF-UK’s ambitious plan to help the UK restore 15% of seagrass habitats by 2030. We are working to plant up to 18 hectares of seagrass by

2026 and develop a mechanised restoration approach that will enable future restoration efforts to dramatically upscale future plantings. Communities are at the heart of the Seagrass Ocean Rescue projects and WWF aims to empower people to improve their local environment, while developing invaluable skills and a lifelong interest in marine conservation.

Check for more at...

<https://www.wwf.org.uk/what-we-do/planting-hope-how-seagrass-can-tackle-climate-change>



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### **Support Your Association**

- ◆ ***Renew Your Membership Now !!***
- ◆ ***Join the Subject Sub-committees !!***

Membership Application form

[http://www.hkasme.org/Common/Reader/Channel/ShowPage.jsp?Cid=9&Pid=6&Version=0&Charset=big5\\_hkscs&page=0](http://www.hkasme.org/Common/Reader/Channel/ShowPage.jsp?Cid=9&Pid=6&Version=0&Charset=big5_hkscs&page=0)

## **\*\* Science News \*\* --**

### **(S-1) United Arab Space Exploration – from Mars to Asteroid Belt in 2034**



After successful mission to Mars in 2020, United Arab Emirates announces spacecraft to explore asteroid belt for clues to life's origins.

>... The MBR explorer will deploy a lander onto a rare "red" asteroid believed to contain organic compounds

>.. The UAE has a craft in orbit around Mars and is planning a Martian colony by 2117

>.. Private-sector startups in the kingdom will develop the lander, with government assistance

\*\*\* >>> The UAE became the first Arab country and the second country ever to successfully enter Mars orbit on its first try when its Hope probe reached the red planet in February 2021.

>... ...\*\*\* If successful, the newly announced spacecraft will soar at speeds reaching 33,000 kilometres per hour on a seven-year journey to explore six asteroids.

,,, \*\*\* It will culminate in the deployment of a landing craft onto a seventh, rare "red" asteroid that scientists say may hold insight into the building blocks of life on Earth.

...\*\*\* Organic compounds are crucial constituents of life and have been found on some asteroids, potentially delivered through collisions with other organic-rich bodies or via the creation of complex organic molecules in space.

...\*\*\* Investigating the origins of these compounds, along with the possible presence of water on red asteroids, could shed light on the origin of Earth's water, thereby offering valuable insights into the genesis of life on our planet.

\*\*\*>> The Expected journey --- In October 2034, the craft is expected to make its final thrust to the seventh and last asteroid, named Justitia, before deploying a lander over a year later.



## **(S-2) IYOM-2023**

<-- Millets – ..... What are they? ..... Why so important?

Millets are a highly varied group of small-seeded grasses. They are widely grown on the globe as cereal crops or grains for food. They are important in the tropics of Asia and Africa (especially in India, Mali, and Nigeria). 97% millet production is in developing countries.

This crop is favoured due to its productivity and short growing season under dry, high-temperature conditions. They are highly tolerant of drought and other extreme weather conditions and have a similar nutrient content to other major cereals. It has been consumed by humans for about 7000 years and potentially had a pivotal role in the rise of multi-crop agriculture and settled farming societies.

The **IYOM-2023** was supported by 72 countries principally to reverse the consumption decline of the nutrient-rich grain and open opportunities for the country's millet growers, accounting for 41% total world production since 2020. Could this be a solution for the food problem in this year of crisis??

Check for more online about IYOM-2023 and **prepare for update activities to your students!!!**

**>> IYOM 2023 activities & results with photos & videos are posted also on TWITTER : ....**

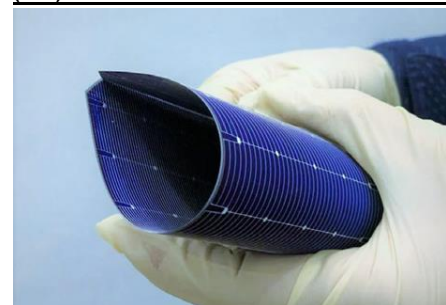
<https://twitter.com/IYM2023> ... Get the most from their various types of activities including all walks of people!!!

## **\*\* Chemistry News \*\***

### **(C1) Hong Kong Chemistry Olympiad for Secondary Schools (2022-23)**

{{-->> ADD in the results of the finalists . ....

### **(C2) Flexible silicon solar cells could be rolled out on tricky to cover buildings**



--- A new technique for producing silicon solar cells that are more than 24% efficient and yet can be rolled up like a sheet of paper has been demonstrated. The work could allow solar cells to be used in applications that currently use more expensive thin-film alternatives.

..... Here in the Netherlands we see this very differently, we are a super-densely populated country and we have to take advantage of the constructions of the buildings that we already have. It's true the market [for flexible cells] is small at the moment but there are significant efforts in Europe and Asia to make it bigger.' She also says she feels 'the authors didn't have enough space to explain how important this is', noting that increasing the flexibility of cells could reduce the need to encapsulate them in heavy glass and thereby make it safe to install solar panels on roofs that cannot currently support them, for example.

Check for more at ...

[https://www.chemistryworld.com/news/flexible-silicon-solar-cells-could-be-rolled-out-on-tricky-to-cover-buildings/4017490.article?utm\\_source=cw\\_weekly&utm\\_medium=email&utm\\_campaign=cw\\_newsletters](https://www.chemistryworld.com/news/flexible-silicon-solar-cells-could-be-rolled-out-on-tricky-to-cover-buildings/4017490.article?utm_source=cw_weekly&utm_medium=email&utm_campaign=cw_newsletters)

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## Biology News

**(B-1) More about “Environment Day” – Study casts doubt on cultivated meat’s low carbon promise...**



Cultivated Meat ??

--- A new preprint study from researchers in the US has concluded that the environmental impact of cultivated meat is probably ‘orders of magnitude’ worse than traditional beef, based on current and near-term production methods. But experts are divided on whether the study, which has yet to undergo peer review, makes valid assumptions.

..... But now researchers at the University of California, Davis, suggest these and other studies have underestimated the environmental impact of cultivated meat, and in particular the cost of producing the highly refined growth medium that they say its near-term production methods will continue to rely on.

---- Years of research and many breakthroughs will be necessary for cultured meat to be even close to the current beef production system,’ she adds, noting that cattle domestication has an 11,000-year history while cultivated meat has only been around about a decade

\*\* Check for more at --

[https://www.chemistryworld.com/news/study-casts-doubt-on-cultivated-meats-low-carbon-promise/4017532.article?utm\\_source=cw\\_weekly&utm\\_medium=email&utm\\_campaign=cw\\_newsletters](https://www.chemistryworld.com/news/study-casts-doubt-on-cultivated-meats-low-carbon-promise/4017532.article?utm_source=cw_weekly&utm_medium=email&utm_campaign=cw_newsletters)

.....

**“ Protecting Biodiversity, Protecting Life” ....**

## AGM NEWS

**HKASME AGM Forum: “STEAM Education – Go ahead!”**

**STEAM Education GO AHEAD!**

During this lengthy pandemic period, everyone has tried different methods of teaching & learning! Have you tried any new technology and platforms? How could you or your school deal with a wide spectrum of novices to experts (both teachers & students) in such areas if they are to be included in school routines? .... All could have good practices to share and / or problems to discuss (question could be drafted in the online application form).

**Facilitator**

Mr. Li Chi Man, Jimmy  
Chairman,  
Hong Kong Association for  
Science & Mathematics Education

**Speaker**

Dr. Lam Wai Lim, William Chief Certification Development Officer (Science), Education Bureau	Dr. Cheung Chak Chung, Ray Associate Professor (Digital Learning), City University of HK	Mr. Carlos Tobiang The Hong Kong Technology Education Association	Mr. Chu Ka Tim Chairman, The Hong Kong Association for Computer Education	Mr. Wong Kin Wai, Albert Chairman, Association of I.T. Leaders in Education	Dr. Yip Wing Yan, Valerie Principal Lecturer, Faculty of Education, The University of Hong Kong
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**Target Audience**  
Teachers of Science & Maths & STEAM, STEAM co-ordinators and assistants, Lab-technicians, Principals and other educators. All reflections and discussions will be summarized for teachers' reference.

**Date & Time**  
23 June, 2023 (Fri) | 2:00 pm – 3:30 pm | (3:30 to 4:30 – AGM)

**Venue**  
LT4, Yeung Kin Man Academic Building, City University of Hong Kong,  
Tat Chee Avenue, Kowloon Tong, Kowloon. (Kowloon Tong MTR Station Exit C2)

**Medium of Instruction:** Cantonese, with English PPT

**Application Deadline**  
14 June 2023 (Wed)

**Enquiry**  
☎ 2333 0096  
🌐 [www.hkasme.org](http://www.hkasme.org)

**Online Application**  
Please scan the QR Code. After application, CityU will issue a QR code for you to enter CityU. Please check email for later instructions.

Organizer **HKASME** 香港數理教育學會  
Hong Kong Association for  
Science & Mathematics Education

Supporting  
Organizer **CityU** Department of  
Electrical Engineering  
香港城市大學  
City University of Hong Kong

**Date:** 23 June, 2023 (Fri)

**Time:** 2:00 pm – 3:30 pm (3:30 to 4:30 – AGM)

**Venue:** LT4, Yeung Kim Man Building, City University of Hong Kong, Tat Chee Avenue,  
Kowloon Tong, Kowloon. (Kowloon Tong MTR Station Exit C2)

**Speakers:**

**Dr. LAM Wai Lim, William**

Chief Curriculum Development Officer (Science), Education Bureau

**Dr. CHEUNG Chak Chung Ray**

Associate Provost (Digital Learning), City University of Hong Kong

**Mr. Carlos Tchiang**

The Hong Kong Technology Education Association

**Mr. CHU Ka Tim**, Chairman, The Hong Kong Association for Computer Education

**Mr. WONG Kin Wai**, Albert, Chairman, Association of I.T. Leaders in Education

**Dr. Valerie YIP**, Principal Lecturer, Faculty of Education, The University of Hong Kong

**Medium of Instruction:**

Cantonese, and English

**Target audience:**

Teachers of Science & Maths & STEAM, STEAM co-ordinators and assistants, Lab-technicians, Principals and other educators. All reflections and discussions will be summarized for teachers' reference.

**Links & Questions:** During this lengthy pandemic period, everyone has tried different methods of teaching & learning! Have you tried any new technology and platforms? How could you or your school deal with a wide spectrum of novices to experts (both teachers & students) in such areas if they are to be included in school routines? .... All could have good practices to share and / or problems to discuss (**question could be drafted in the online application form**).

**Application deadline:** 14 June 2023 (Wed)

- This activity is FREE.
- After application, CityU will issue a QR code for you to enter CityU. Please check email for later instructions.

**Online application:**

[https://docs.google.com/forms/d/14Hzhbtm4UnJNCo3pBo-ZIoTNkulyhDk8aF\\_93nOzyg/edit](https://docs.google.com/forms/d/14Hzhbtm4UnJNCo3pBo-ZIoTNkulyhDk8aF_93nOzyg/edit)

**Membership application:** If you want to join the Association, please click:

<http://www.hkasmae.org/Common/Reader/Channel/ShowPage.jsp?Cid=9&Pid=6&Version=0&Charset=iso-8859-1&page=0>

**Enquiry Tel:** 2333-0096

**Related News & Updates:** [www.hkasmae.org](http://www.hkasmae.org)

**REPLY SLIP: Annual General Meeting (AGM) 2023**

**To:** Hong Kong Association for Science and Mathematics Education (HKASME)

Office 14, 1/F, Po On Court, 1-15 Po On Road, Kowloon.

(Fax no. +852 2333 3355)

I \*shall / shall not (\* Delete as inappropriate) attend the following programs (free of charge) on 23<sup>rd</sup> June, 2023 (Fri) at LT4, Yeung Kim Man Building, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong, Kowloon. (Kowloon Tong MTR Station Exit C2)

Option#	Program	Time
<input type="checkbox"/> A	AGM Forum "STEAM Education – Go ahead!"	2:00 pm - 3:30 pm
<input type="checkbox"/> B	HKASME Annual General Meeting (AGM)	3:30 pm - 4:30 pm

# please put a '✓' in each of the appropriate boxes.

**Name:** \_\_\_\_\_ **Membership No.** \_\_\_\_\_

(please print, surname first)

**Signed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

(If you cannot attend the AGM, please ask your representative to attend on your behalf and send in the Proxy Form below on or before 19<sup>th</sup> June, 2023. Thank you.)

**PROXY FORM**

**To:** Hong Kong Association for Science and Mathematics Education (HKASME)

(N.B. This Proxy Form must be submitted to the Hon. Secretary at least 3 days before the scheduled time of the AGM, i.e. 19<sup>th</sup> June, 2023.)

I, \_\_\_\_\_, Membership No.: \_\_\_\_\_ of

(Name of Appointer, surname first)

\_\_\_\_\_, being a member of HKASME,

(Address of Appointer)

hereby appoint: \_\_\_\_\_, Membership No.: \_\_\_\_\_ of

(Name of Appointee, surname first)

\_\_\_\_\_, as my proxy to vote for me on

(Address of Appointee)

my behalf at the AGM of the HKASME to be held on the 23<sup>rd</sup> June 2023 and at any adjournment thereof.

As witness my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_  
(Signature of Appointer)

**NOMINATION FORM**

**To: Hong Kong Association for Science and Mathematics Education**  
**Office 14, 1/F, Po On Court, 1-15 Po On Road, Kowloon.**  
**Fax no.: +852 2333 3355**

(N.B. This Nomination Form must be submitted to the Hon. Secretary at least 3 days before the scheduled time of the AGM , i.e. **19<sup>th</sup> June, 2023.**)

This is to nominate \*Dr./Mr./Mrs./Ms. \_\_\_\_\_,  
 (please print, surname first)

Membership No.: \_\_\_\_\_ for a post of council member in the Council of Session  
 2023-2024.

	Nominator	Secunder
<b>Name</b> (please print)		
<b>Membership</b> <b>No.</b>		
<b>School/</b> <b>Organization</b>		
<b>Signature</b>		

Consent of the Nominee to stand for election:

Date: \_\_\_\_\_ Signed: \_\_\_\_\_

\* *Delete as appropriate*

Note: The number of council members in the Council of Session 2023-2024 is 15, one of which is the Immediate Past Chairman. The number of vacancies for open nomination is 14.

-----  
 (For office use)

Received by Hon. Secretary on : \_\_\_\_\_

**AGM News**

**NOTICE OF FORTY ANNUAL GENERAL MEETING OF THE HONG KONG ASSOCIATION**  
**FOR SCIENCE AND MATHEMATICS EDUCATION LIMITED**

NOTICE IS HEREBY GIVEN that the Forty Annual General Meeting of the above Company will be held at LT4, Yeung Kim Man Building, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong, Kowloon. (Kowloon Tong MTR Station Exit C2) at 3:30 p.m. on 23 June 2023 (Friday), when the following ordinary business will be transacted, viz:

1. To adopt the minutes of the previous Annual General Meeting.
2. To receive and adopt the Chairman's report.
3. To receive and consider the Hon Treasurer's report.
4. To elect members of the Council.
5. To appoint the Hon. Legal Advisor.
6. To appoint the Hon. Auditor.
7. Any other business.

By order of the Council



Mr. Lee Wai Hon  
 Hon. Secretary

Dated 13 June , 2023.

Remarked: please note that new council members will bring vitality into the next Council. You are earnestly requested to make nominations and make yourself present (though a proxy may also serve the purpose) in support of your nominee.

## Brief Introduction of Nominee for the Election of 2023-2024 HKASME Council Members

### Name

Dr AU Siu Chung 區紹聰博士

### Related Experience

- Council member of HKASME (2018 – Current)
- Honorary Journal Editor (2019 – Current)
- Steering committee member of Ocean Park International STEAM Education Conference (2018)

### Contribution and /or Thoughts

As the Journal Editor, I have been preparing the Hong Kong Science Teachers' Journal and promoting Science education. In order to achieve the goal, I conducted various professional development seminars and built new connections with teachers. Besides, I explored the possibilities to see if the Journal can be more comprehensive and insightful. I hope I can continue to serve the Council in the coming year.

### 參選人

#### 簡介

姓名： 梁俊傑

職位： 科技教育學習領域統籌教師  
電腦科主任  
STEAM 教育小組統籌教師  
電子學習統籌教師  
資訊科技組主管  
學校發展組統籌



政府： 2021-2023 年課程發展議會  
學習資源及支援委員會成員

學界組織： 香港數理教育學會 - 科技組主席  
香港電腦教育協會 - Professional Member  
AiTLE 資訊科技教育領袖協會 - 會員

教育局： 2020 至 2023 年度  
e-Assessment Study Group in Mathematics 成員  
2018 至 2021 年度  
資訊科技教育卓越中心借調老師

#### 社會/學界服務

1. 2018 – 2022 常識百搭 Primary STEM Project Exhibition 評審
2. 2018 學習如此多 Fun 評審
3. 2018 香港電腦教育學會－學習如此多紛籌募委員
4. 2018 編寫 AiTLE Micro:bit for Coding 編程教材
5. 2017 編寫 AiTLE Micro:bit for STEM 教材
6. 2017 香港電腦教育學會－學習如此多紛籌募委員
7. 2016 香港電腦教育學會－學習如此多紛籌募委員

懇請各會員投我神聖一票！隨時歡迎給予意見及指導！謝謝！

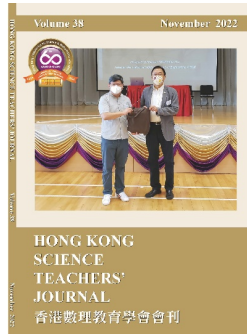


## Journal News

### Calling for Articles of HKASME Journal (Volume 39)

Dear all members,

The latest HKASME Journal (Volume 38) had been issued before. I hope you enjoy reading it and your teaching ideas can be inspired.



Meanwhile, please notice that the next HKASME Journal (**Volume 39**) will be published and issued in **September 2023**, as what we scheduled before.

We are now calling for articles from authors. Would all 'potential authors' grasp the valuable chance of sharing your research findings, teaching ideas, views or experiences on any aspects of the education sector? The following ideas are provided for your own thoughts for sharing:

- ✧ Sharing ideas / difficulties in STEM / STEAM education / implementation
- ✧ Difficulties encountered and techniques to overcome in NSS implementation
- ✧ Experiences on handling SBA tasks concerning Science subjects and Liberal Studies
- ✧ Issues concerning the HKDSE examination
- ✧ Teaching ideas on certain topics of Mathematics, Science subjects and Liberal Studies
- ✧ Experiences in organizing teaching and learning activities
- ✧ Book review / Website recommendation

The deadline for submission of articles is **30<sup>th</sup> June 2023**.

Articles, photos or any other stuff concerned can be sent through email to me ([boasc6218@gmail.com](mailto:boasc6218@gmail.com)) or Miss Chu ([enquiry@hkasme.org](mailto:enquiry@hkasme.org)). Thank you for your help in advance. Thank you for your support to the HKASME Journal for years.

Best regards,  
Dr. AU Siu Chung  
Journal Editor, HKASME

## ETV News

教育局教育多媒體  
EDB Educational MultiMedia (EMM)

Jun 2023

EDUCATION BUREAU EDUCATIONAL MULTIMEDIA MONTHLY UPDATE

教育局教育多媒體每月速遞 (六月號)

《世上只有》

《「企業會財」專題研討會 (2): 企業會財及會計專業發展 (精華片段)》

Business ethics and social responsibilities  
商業道德與社會責任

Return of investment  
(benchmark to internal rate of return)  
投資回報(用基準衡量內部報酬率)

《「企業會財」專業發展課程精華片段》系列

《「躍動校園 活力人生」計劃——校園健康舞》

《「躍動校園 活力人生」計劃——精英運動員分享會 (三) 暨三人籃球交流表演賽》

《「運用流動裝置進行科學 (中一至中三) 實驗活動」資源套》系列

運用流動裝置進行科學實驗活動  
科學 (中一至中三) 學與教資源  
單元六·物質的粒子與大氣壓強

教育多媒體資源目錄

如有興趣接收《教育多媒體每月速遞》，歡迎發送一個空白電郵至 [emm@edb.gov.hk](mailto:emm@edb.gov.hk)

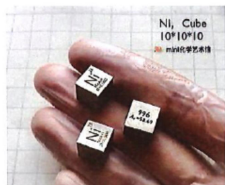


## Resources Collection --- Continue Celebrating the IYPT-2019 (International Year of Periodic Table) ... -

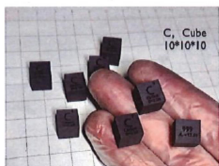
(A-1) \*\* New \*\* -- “Element Cubes” -- IYPT resources ... <== could

ALSO be used as tools for your students to plan their “Experience Package” for the NEW competition “My experience with the Periodic Table” for IYPT-2019(HK).  
--- check Chem News (C1) above....

>>--)) Element CUBES of (1 cm x 1 cm x 1cm) – 4 elements available



(Ni cubes)...



(C cubes)

Element / Symbol (At.No.)	Purity	Density	Price (Member / Non-member)
Carbon / C (6)	999 (= 99.9 %)	1.82	\$ 30 / 40
Nickel / Ni (27)	995 (= 99.5%)	8.9	\$ 50 / 60
Titanium / Ti (22)	995 (= 99.5%)	4.506	\$ 30 / 40
Molybdenum/ Mo (42)	9995 (= 99.95%)	10.22	\$ 60 / 70
Gold / Au (79) in tube	999	19.3	\$ 30 / 40

“More” How to use the “Element Cubes” ?? -- check April mailpack for different uses ... and ...use your imagination & creativity for the followings: ...

- 1/ Use waste cardboard and papers to make “paper element cubes” with element info on the 6 sides.
- 2/ How to use the above depend on your imagination ... e.g. as a gift, ... as detective chess, .. as a conversational tool to inspire students
- 3/ Using the “real cubes” (bought as above) and the “paper cubes” together for different activities ...

### (A-2) Sets of elemental package for comparison / metallic investigations...



various metal combination packs are available with metals Mn, Bi, W,

Zn, Ti, Cr, Sb, Pb, Mo, ... Some mixed packs with 5 random metals at (\$30) and 3 metals at (\$20).  
.... → Ask for more updates at the Office (2333-0096)!

## (B) Periodic Table items for IYPT-2019 >> & Still extending into 2021! ...

>> YES, check Chem News Section!

\*\* The IYPT-2019 (International Year of Periodic Table) will have global and local activities until the end of the year. Hence, it is not late for you to initiate activities for your school or class or students to join the grand celebration around the World. For updates and our new competition (“My Experience with the Periodic Table” – a continuation of the 2018-19 competition “Element of the Month”), please go to [www.hkasme.org](http://www.hkasme.org) > Subject Comm > Chemistry > IYPT or email your questions or message to [iypt2019@hkasme.org](mailto:iypt2019@hkasme.org)

For details of the competition “Element of the Month for IYPT-2019(HK)”, please refer to the final report in this Journal or check at [www.hkasme.org](http://www.hkasme.org) > Chemistry > iypt2019.

### (B1) → Different types of Periodic Tables:

1. Different size: A4 / postcard / bookmark --



2. 3D periodic table, large size (\$40) --



3. Heat sensitive periodic table --



4. Heat sensitive Cup with periodic table -- (change colour with cold water).



### (B2) Periodic Table Mugs:

	\$60
	\$60
	\$60

– Ask Office for updates at 2333-0096.

**Check for more at the SME Office ...** ↔ STEM nourishment needs experiential learning !!!

# The Hong Kong Association for Science and Mathematics Education

## MEMBERSHIP APPLICATION FORM

To: Membership Secretary

Hong Kong Association for Science and Mathematics Education

Room 14, 1/F, Po On Court,

1-15 Po On Road, Shamshuipo, Kowloon.

☐ New application☐ Renewal

(tick the appropriate box)

*(Please read the notes at the back before completing this form. Personal data collected will only be used for record and statistical purposes. To support the green movement, the HKASME is sending materials via email as far as possible.)*

I would like to join the Association as an *(Pls tick)* ☐ Ordinary Member ☐ Associate Member.Membership payment method *(Pls tick)*: ☐ Cash ☐ Cheque ☐ Auto-pay*\* delete as appropriate*Name: \* **Prof./Dr./Mr./Ms./Mrs.** \_\_\_\_\_ ( \_\_\_\_\_ )  
In English in Chinese, if applicable

School/Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Home Address: \_\_\_\_\_

Contact Phone: Home: \_\_\_\_\_ Office: \_\_\_\_\_ Mobile: \_\_\_\_\_

Email: \_\_\_\_\_ Member No.: \_\_\_\_\_  
(for renewals)I would like to receive these items *(Pls tick)* ☐ Science ☐ Mathematics ☐ Council/General News via email.*(Please substantiate your request if you wish to have the above items sent through regular post)*For all other correspondence sent via regular post, please deliver to my *(Pls tick)* ☐ Office ☐ HomeType of Organization *(Pls tick)*: ☐ Primary School ☐ Secondary School ☐ Tertiary Institutions  
☐ EDB ☐ HKEAA ☐ Others: \_\_\_\_\_Qualification *(Pls tick)*: ☐ Sub-degree teacher Training ☐ University ☐ University+Cert. Ed./PGDE  
☐ Higher Degree ☐ Others: \_\_\_\_\_

Major: \_\_\_\_\_ Minor: \_\_\_\_\_ Year Graduated: \_\_\_\_\_

Subjects Teaching (for teachers only) : *\* delete as appropriate*Major \_\_\_\_\_ at \* **Tertiary / S. 4 - 6 / S. 1 - 3 / Prim / Pre School**Minor \_\_\_\_\_ at \* **Tertiary / S. 4 - 6 / S. 1 - 3 / Prim / Pre School**

Teaching Experience: \_\_\_\_\_ years.

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

**The Hong Kong Association for Science and Mathematics Education** welcomes those interested in advancing Science and Mathematics education to join us. We offer the following categories of membership:

Category	Annual Fee	Eligibility
Ordinary Member	HK\$150	For any person who is : - a Science or Mathematics teacher in a school, university or college of higher education, or - especially interested or involved in the advancement of Science and Mathematics education.
Associate Member	HK\$50	For full-time students studying in an educational institution recognized by the Council.

There are several ways to pay the annual membership fee, choose the one most convenient to you:

## 1. Cash

Please complete and return this Application Form together with an appropriate amount.

## 2. Cheque

Please complete and return this Application Form together with a cheque of an appropriate amount, crossed and payable to ‘**HKASME Ltd**’.

For enquiries, please contact the HKASME Office:

Hong Kong Association for Science and Mathematics Education

Room 14, 1/F, Po On Court,

1-15 Po On Road, Shamshuipo, Kowloon.

Tel. No.: 2333 0096, Fax no.: 2333 3355

-----*(For Office Use Only)*-----Member Category: ☐ Ordinary ☐ Associate Member No.: \_\_\_\_\_

Date Received: \_\_\_\_\_ Amount: \_\_\_\_\_ Receipt No.: \_\_\_\_\_

Cheque Number: \_\_\_\_\_ Date Deposited: \_\_\_\_\_

Membership valid from \_\_\_\_\_ to \_\_\_\_\_

Date Processed: \_\_\_\_\_

**\* For new members, “Date of joining” = “Date Received”**

# The Hong Kong Association for Science and Mathematics Education

## MEMBERSHIP (INSTITUTIONAL) APPLICATION / UPDATE FORM

To: Membership Secretary  
 Hong Kong Association for Science and Mathematics Education  
 Room 14, 1/F, Po On Court,  
 1-15 Po On Road, Shamshuipo, Kowloon.

☐ New application  
☐ Renewal  
☐ Update  
 (tick the appropriate box)

*(Please read the notes at the back before completing this form. Personal data collected will only be used for record and statistical purposes. To support the green movement, the HKASME is sending materials via email as far as possible.)*

*\* delete as appropriate*

We would like to **\* join the Association as an Institutional Member / update our record.**

Membership payment method (*Pls tick*): ☐ Cash ☐ Cheque ☐ Auto-pay

School/Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Website: \_\_\_\_\_

Email: \_\_\_\_\_ Member No.: \_\_\_\_\_  
 (if known)

Type of Organization (*Pls tick*): ☐ Primary School ☐ Secondary School ☐ Tertiary Institutions  
☐ EDB ☐ HKEAA ☐ Others: \_\_\_\_\_

*\* delete as appropriate*

We appoint **\* Prof./Dr./Mr./Ms./Mrs.** \_\_\_\_\_ (in English)  
 ( \_\_\_\_\_ <in Chinese, if applicable>) as our primary contact person.

Home Address: \_\_\_\_\_

Contact Phone: Home: \_\_\_\_\_ Office: \_\_\_\_\_ Mobile: \_\_\_\_\_

Email: \_\_\_\_\_

For all correspondence sent via regular post, please deliver to his (*Pls tick*) ☐ Office ☐ Home

Please also send information (subject/Association news) to the following person(s) via email:

Name	Email	Subject Teaching
		Biology
		Chemistry
		Integrated Science
		Liberal Studies
		Mathematics, Junior
		Mathematics, Senior
		Physics

Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Position: \_\_\_\_\_ Date: \_\_\_\_\_

**The Hong Kong Association for Science and Mathematics Education** welcomes schools, institutions and organizations recognized by the Council to join us. The current Annual Fee for an Institutional Member is HK\$800.

There are several ways to pay the annual membership fee, choose the one most convenient to you:

1. Cash  
Please complete and return this Application Form together with an appropriate amount.
2. Cheque  
Please complete and return this Application Form together with a cheque of an appropriate amount, crossed and payable to ‘**HKASME Ltd**’.

For enquiries, please contact the HKASME Office:

Hong Kong Association for Science and Mathematics Education  
 Room 14, 1/F, Po On Court,  
 1-15 Po On Road, Shamshuipo, Kowloon.

Tel. No.: 2333 0096, Fax no.: 2333 3355

-----(***For Office Use Only***)-----

Member Category: ***Institution*** Member No.: \_\_\_\_\_

Date Received: \_\_\_\_\_ Amount: \_\_\_\_\_ Receipt No.: \_\_\_\_\_

Cheque Number: \_\_\_\_\_ Date Deposited: \_\_\_\_\_

Membership valid from \_\_\_\_\_ to \_\_\_\_\_

Date Processed: \_\_\_\_\_

**For new members, “Date of joining” = “Date Received”**