

# NURTURING LEADERS FOR THE NATION

培育  
國家  
棟梁

HWA CHONG  
INTEGRATED PROGRAMME  
PROSPECTUS

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Many of the photographs in this publication were taken before March 2020.



自强不息、学以致用、饮水思源 —

These values continue to guide me. I believe this is a key reason why Hwa Chong produces not only outstanding students who have unique talents and abilities, but also students with the heart, compassion, and love for Singapore and fellow Singaporeans.

**MR NG CHEE MENG**

Secretary-General, National Trades Union Congress

陶铸心怀社稷的全方位领袖



### Nurturing Holistic Leaders With A Heart For The Community

“At Hwa Chong, the spirit of community service, paying it forward and caring through sharing matter a lot for our students, and the values of 己立立人, 己达达人 have become part of the Hwa Chong student’s DNA. This is important because we want to nurture leaders who live with passion and lead with compassion, who are prepared to put others before self, for the larger good of the community.”

**MR PANG CHOON HOW**  
Principal, Hwa Chong Institution

## Vision, Mission & Values

The design and development of new learning strategies have always been Hwa Chong’s forte. We examine emerging trends with our teachers, stakeholders and strategic partners who give shape and form to our response to new challenges. It is in this light that we have crafted our school vision and mission.

### 华中愿景 Our Vision

陶铸热爱生活、关爱别人，为社群谋福利的华中儿女

Empowering our students to  
Live with Passion and Lead with Compassion



Raising awareness of childhood cancer through Hair for Hope

### 华中使命 Our Mission

培育为国为民之科研、商企与政界领袖

We nurture leaders in Research, Industry  
and Government to serve the nation



Secondary One Camp

# 华中核心价值观 Our Core Values

自强不息  
**Tireless Self-Improvement with  
Tenacity, Innovation and Passion**

己立立人, 己达人  
**Win – Win**

饮水思源  
**Remembering Our Roots and  
Honouring Our Benefactors**

In Hwa Chong, we want to help our students develop moral principles and values by which to live. We also want to engender passion and compassion and hone students' ability to see connections between diverse issues and ideas, while giving them the space to grow as individuals.



## ONG TENG CHEONG LEADERSHIP FRAMEWORK

The Ong Teng Cheong Leadership Framework combines different strands of entrepreneurial and servant leadership with Confucian values like the persistent pursuit of knowledge (格物、致知) and an unwavering commitment to the highest honour and integrity (诚意、正心).

In line with the Confucian ethos, we want to raise our students to be compassionate leaders who are not only responsible to self (修身), family (齐家), and country (治国), but who can also help sustain humanity and transform society (平天下). We want all our students to care passionately for others and society.

# Building Character

The strength of Hwa Chong's Integrated Programme is in its ability to combine scholastic excellence with an outstanding range of opportunities beyond the classroom. Every Hwa Chong student receives a rigorous curriculum that emphasises **leadership, character building, academic excellence, and creativity.**

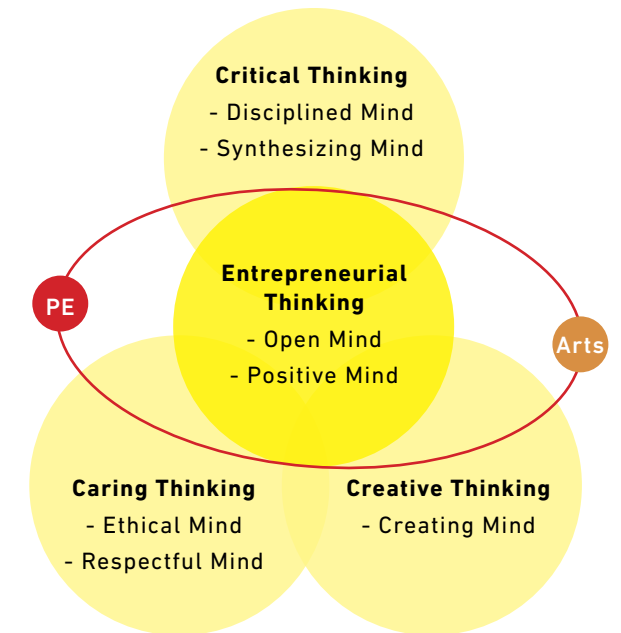
Annually, there are close to **50 different student-initiated service learning projects school-wide.** Selected projects receive financial support from the Citibank Youth for Causes Fund and Young ChangeMakers by NYC. These could include promoting an appreciation of Chinese culture at the National Museum of Singapore, conducting web design courses for underprivileged children at community centres, working on E-reading programs with the NLB and creating online learning programmes for primary school students.

In addition, **all Hwa Chong students are involved in different Values-in-Action (VIA) activities.** Put together by the VIA coordinators and the VIA Council throughout the year. These could include painting one-room flats, tutoring pupils from needy families as well as interacting with the elderly teaching them technological skills and the integrating intellectually disabled or migrant workers into the Singaporean Society. An increasing proportion of service projects are student-initiated and -managed, with the SL teachers being mentors in the true sense of the word. The whole school also comes together to organise various community-based events like the Founders' Day Food Drive, 'A day without shoes', 'Service Learning Fest' and the Purple Parade.

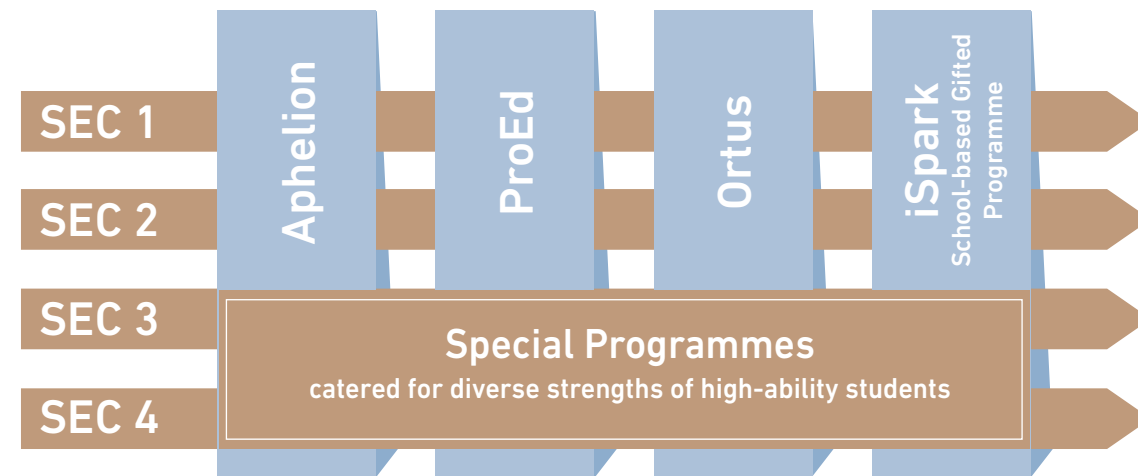
## HWA CHONG HOLISTIC EDUCATION MODEL

Our Holistic Education Model – which underpins education at Hwa Chong – reflects the best of East and West. Adapted from Howard Gardner's "Five Minds for the Future", it aims to develop holistic thinking through cultivating Critical Thinking, Caring Thinking, Creative Thinking and Entrepreneurial Thinking.

With our seamless 6-year IP, we have adopted for our Affective Programme an integrated cross-disciplinary approach driven by students' creativity, self-direction, and leadership.



## Unique Consortium System



HCI places equal emphasis on the academic and affective domains of the development of each child. The Institution thus took the bold but natural step of pioneering the Consortium System in 1999.

The Consortium System operates on the concept of a “school within a school”. Each consortium comprises a team of about 30 teachers with a smaller cohort of students as their charges. Teachers and students are grouped into 4 consortia: Aphelion, iSpark, Ortus and ProEd.

This culture of care continues in Years 5 and 6, when students are placed in 4 faculties: Apollo, Ares, Artemis and Athena, where dedicated teachers from each faculty look after the development and well-being of each student.

With a smaller student population in each “mini-school”, the nimble Consortium System allows for greater autonomy: staff members are empowered to make local decisions efficiently, so as to better respond to the changing needs of both students and teachers.

The unique set-up provides a more **holistic**, **supportive** and **customised** curriculum for our students. Thus, this in turn enables HCI to nurture them into leaders, innovators and citizens of tomorrow.

A questioning mind is the hallmark of every Hwa Chongian.

Ultimately, the strongest ties forged are those between teachers and students, seniors and juniors. This is part of the Hwa Chong experience, where we live with verve and lead with compassion.

**Chan Su-Chern Philip**  
Public Service Commission Overseas Merit Scholarship  
Oxford University  
Masters in Physics and Philosophy

## Inspiring Educators

“...the quality of an education system cannot exceed the quality of its teachers.”

McKinsey & Co Report



Mr Woon Ta Wei David (Education Consultant / PE, CCA & Outdoor Education) was conferred the SPEA Outstanding Teacher-Coach Award.



Mr Gilbert Ng Ying Fong (Lecturer / Economics) was conferred the Outstanding Economics Teacher Award (OETA), awarded by the Economics Society of Singapore and supported by the Ministry of Education.



Dr Liang Yong was conferred the Distinguished Chinese Language Teacher Award 2021.

Hwa Chong teachers share the responsibility of building up a new generation of leaders for the nation – leaders with the boldness to pursue their passions, and a desire to create a better future.

Time and again, the teachers in Hwa Chong have proven their mettle by rising to the challenge. They prove themselves as masters in initiating and managing change and innovation in the context of education in Singapore. In the years to come, Hwa Chong teachers can also look forward to more inter-school collaborations, which could contribute to the regional and global education landscape.

Because Hwa Chong takes in students with the highest intellectual potential to succeed, teachers themselves are leaders in their fields and experts in their subject areas. They are fully committed to seeing their students succeed.

What best epitomises them is their confidence and resolve in setting their own standards of excellence in school management, curriculum design, academic assessment and professional development.

**More than 8 in 10 of the Institution’s over 300 teachers hold advanced degrees (Honours or higher) from leading universities, including NUS, Harvard, Imperial College, Oxford and Cambridge, Peking and Fudan. A sizable number are scholarship recipients from the Public Service Commission, local universities and Fulbright Singapore. Over 30 have doctorates.**

Apart from postgraduate education, our faculty members are actively involved in volunteer service, educational research, drama, writing and the fine arts, reflecting our teachers’ commitment to leading by example. Their capacity to live life to its fullest and pursue life-long learning is testimony of all of Hwa Chong’s aspirations.

## Inspiring Scholastic Excellence through Holistic Assessment



At Hwa Chong, students are encouraged to take responsibility for their own learning. This is reflected in our comprehensive assessment modes designed to promote independent and collaborative learning. Hwa Chong students would thus be better equipped to become leaders and lifelong learners.

The Sec 1-4 curricula include our unique Oral Communication (OC) and Project Work (PW) components. For Oral Communication, students are assessed on their oral participation in class. Project Work assesses students on the quality of their work which encourages active inquiry and intellectual rigour. It also directs students towards independent learning and purposeful reading and reasoning. These alternative/ authentic modes of assessment make up our scholastic assessments, and are complemented by academic assessments, which prepare students for the requirements of the GCE Advanced Level Examinations in their final year in College 2 (i.e. JC2).

Our assessment protocol measures students' general **ability, depth and range of thinking, communication skills** and level of **passion for different disciplines**. Academic assessments take the form of tests, learning tasks and examinations. These provide teachers with an indicator of the students' ability so that teaching and learning activities can be designed according to their needs.



**Like some of the world's most innovative schools,**  
Hwa Chong Institution combines academic strength with focus on problem-solving, creativity, critical thinking and entrepreneurship.

SOUTH CHINA MORNING POST  
26 June 2009

## At the Forefront of Educational Change and Innovation



Hwa Chong pioneered the Integrated Programme (IP) in 2004 to broaden students' educational experience. In order to provide a seamless 6-year programme, The Chinese High School and Hwa Chong Junior College merged in 2005 to become the first mega-school in Singapore.

Rare is the school with a vibrant and sustained research culture to support excellence in teaching and learning, that recognises and nurtures the infinite capacities of the mind to achieve, invent and share, that educates students to be leaders who will forge a better future. **Hwa Chong Institution demonstrates all these qualities and is one of the jewels of Singapore, a treasure – exquisite and remarkable.**

**Professor Ruth Vinz**  
Enid & Lester Morse Professor in Teacher Education  
Professor of English Education  
Teachers College, Columbia University

### HWA CHONG GLOBAL ACADEMY

The Institution set up the Hwa Chong-Beijing Satellite Campus in China in 2007 – the first of its kind for a Singapore school. In 2011, the school launched two more "winter campuses" in Xi'an and Wuxi. In 2017, HCI added Shunde to the programme. Hwa Chongians also have opportunities to take part in student exchange programmes in renowned institutions in Japan, South Korea, Taiwan and the U.S. This approach to education through collaborations with overseas institutions of learning serves to broaden our students' experience. Our aim is to maximise every student's potential, and prepare Hwa Chongians for life and work in the 21<sup>st</sup> century.

### HWA CHONG DIPLOMA

The Hwa Chong Diploma is recognized by 19 top universities for admission purposes. The local and overseas universities include Brown, Chicago, Columbia, Duke, Harvard, Yale, Imperial College London, King's College London, London School of Economics, Warwick, NTU, SMU and SUTD. Since 2009, China's top three universities – Peking, Tsinghua and Fudan – have awarded Hwa Chong students with full scholarships based on the strength of the Hwa Chong Diploma.

### GLOBAL LEARNING ALLIANCE

Established in 2011, the Global Learning Alliance (GLA) is an international consortium of innovative top schools and universities dedicated to understanding and sharing the principles and practices of a world-class education, across educational contexts. Hwa Chong Institution is privileged to be one of the six founding institutions in this collaboration. The Alliance also conducts international comparative research on pedagogical practices to define and benchmark 21<sup>st</sup> Century teaching and learning. The unique university-school partnership forges a think-tank, bringing together educators from around the world to reflect on the characteristics of world-class education. It aims to build collaborative projects, to forge international benchmarks for 21<sup>st</sup> Century teaching and to share our learning with a global community of educators.



Group Photo at the Global Learning Alliance 2018 Summit at Helsinki, Finland

### HWA CHONG ENTREPRENEURIAL LEADERSHIP PROGRAMME

Entrepreneurial leadership is an approach to leadership that is applicable to all aspects of society; it encompasses a framework of values and qualities that collectively enables individuals and organisations to successfully thrive in different situations.

The Entrepreneurial Leadership Programme (ELP), within the Integrated Boarding Programme (IBP), aims to inculcate in our students the key values and qualities of entrepreneurial leaders who have succeeded against the odds and are role-models to the world; positively impacting their own and others' spheres of influence.

Students will have opportunities to engage and network with entrepreneurs through attachment, internship and mentorship for competitions.

### HWA CHONG INTEGRATED BOARDING PROGRAMME

HCI initiated the Integrated Boarding Programme (IBP) in 2008 with a small group of students. The programme has since evolved to include about two-thirds of the Sec 3 cohort. In recent years, student leaders from other schools have also joined the programme. This residential programme aims to foster leadership experience for students with an entrepreneurial focus. Students learn about leadership through the interaction and engagement with their Hwa Chong seniors and the alumni.

Among the highlights of the IBP is the Scoop Dinner Series where students get to interact with invited Hwa Chong alumni, many of whom are established and leading citizens in society. The Hwa Chong IBP aims to nurture future leaders and instill in them a sense of service and duty to Singapore.



Dr Koh Poh Koon, Senior Minister for Sustainability and the Environment, engaging students and staff at the Scoop Dinner Series

## HWA CHONG SABBATICALS

The school organises Sabbaticals with the aim of creating space for students to develop passion for what they do. During the one-week Sabbaticals over two terms, formal lessons are replaced by over 80 enrichment electives that include Aviation Science, Basic Microbiology, Data Analytics, Green Learning Journey, Film-making workshop, Chinese calligraphy, Ukulele and a myriad of other activities.

All students are engaged in activities outside the classroom in the sabbatical week held during term time to further broaden their educational experience. This allows them to explore their diverse interests and have fun all at once.



## HWA CHONG PROJECT WORK

Pioneered in 1984, the Hwa Chong (High School) Project Work was conceived with the aim of enhancing the research culture among students and teachers, as well as promoting independent, active and creative learning beyond the classroom.

Project Work has since grown in scale and sophistication. Now implemented school-wide and extending to numerous fields of human endeavour, it comprises 11 categories including: Experimental Research, Humanities & Language Arts Research, Inventions, Resource

Development, Creative Arts, Chinese Language Arts, Service Learning, Mathematics, InfoComm, Future Trends, and Engineering Science.

In addition to having students work with their peers within the school, annually, students from the Science and Mathematics Talent Programme (SMTP) collaborate with their counterparts from the Academy of Science (Virginia, USA) and Bugil Academy (Korea) on research projects of their choice. After a series of intense online discussions and exchange with the partner schools, this collaboration culminates in a presentation at the Project Final Evaluation Round and at Projects Day.

Project Work has become the cornerstone of independent and passion-driven learning in Hwa Chong. It supports active student-centric learning (ASCL) by ensuring a balanced engagement of the students in making decisions on what to learn, how to learn and when to learn, thus promoting ownership of learning. By bringing authenticity to the classroom, Project Work not only provides opportunities for students to apply their disciplinary knowledge and skills, but will hopefully bring to their intrinsic realization of the role they play in the larger social context, when they are actively engaged in learning to solve real-world problems in meaningful ways that benefit the community.



## A Broad-Based Education & Caring Environment

The Hwa Chong Integrated Programme (IP) is designed by our own teachers who have years of experience teaching high ability students. Preliminary consultative work on our IP was done with help from a 34-member International Advisory Panel comprising two Nobel Laureates<sup>1</sup>, distinguished professors from Harvard, Princeton and Cambridge as well as eminent industry captains.

Importantly, the school aims to provide a caring environment that is intellectually stimulating, secure and joyful.

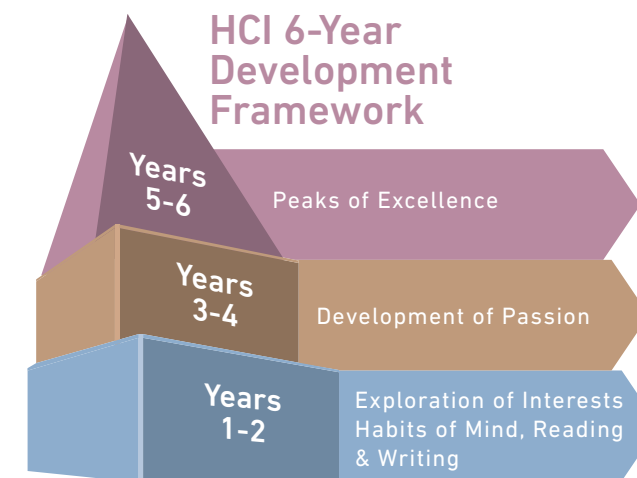
The seamless and broad-based 6-year IP is organised into three stages:

At Stage 1, students are exposed to a general curriculum that allows them to explore various fields of studies.

At Stage 2, students embark on a sustained and in-depth study of their chosen area of specialisation. The curriculum for the Sciences and Humanities will be broad-based at this point.

At Stage 3, students consolidate their knowledge and sit for the Cambridge GCE Advanced-Level Examinations.

They are expected to be actively involved in community outreach programmes and are well-equipped to initiate major research projects which could form the basis of their undergraduate studies.



Generations of Hwa Chongians have gone on to be productive and prominent members of society because they pursue what they love with single-mindedness; and all these years, passion and excellence have firmly remained the key driving forces of education in the Institution. One major strength of the school is its ability to teach students to learn what they love and to love what they learn.

**Dr Benedict Tan**

Chief & Senior Consultant, Department of Sports and Exercise Medicine, Changi General Hospital

<sup>1</sup> Professor Daniel Tsui, 1998 Nobel Laureate in Physics, from the Department of Electrical Engineering, Princeton University; and Professor Y.T. Lee, 1986 Nobel Laureate in Chemistry, and former President of Academia Sinica (Taiwan's top research agency)



# Hwa Chong Talent Development Programmes

## HWA CHONG SCIENCE AND MATHEMATICS TALENT PROGRAMME

HCI has a well-established **Science and Mathematics Talent Programme (SMTP)** to nurture students' passion for scientific research, innovation and enterprise. SMTP students are offered a broadened and enriched curriculum for Math and Science subjects with provisions for a stimulating environment that nurtures the independent and inquisitive learner.

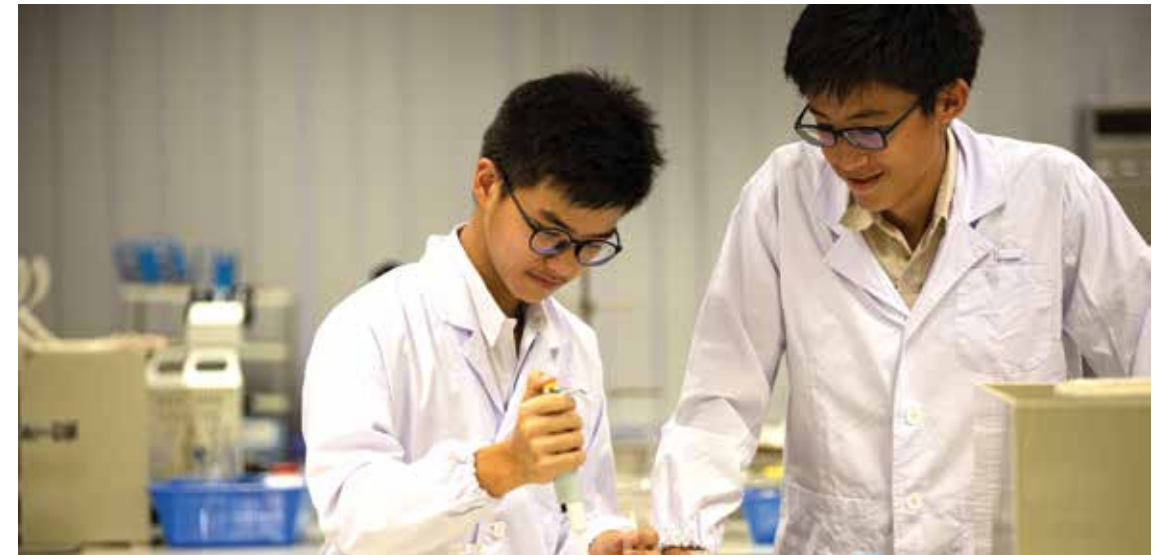
Every year, about 200 students are involved in research projects to solve practical and complex real-world problems. As part of the school's STEM programme, Hwa Chong has partnered with a diversity of local and global organisations to enable students to work with engineers and scientists on real-world projects. We work with partners from the industry, tertiary and research institutions and the community such as HDB, DSO/DSTA, JTC, LTA, NUS, A\*STAR and the Singapore Science Centre. Students work on research projects in **emerging knowledge domains, including computing, machine learning, environmental sustainability, green technologies, renewable technology, mechatronics, data analytics, info-communications, biomaterials and material science.**



Between 2009 and 2021, more than 30 Nobel Prize-winning scientists and Fields Medalists have engaged students in Hwa Chong as part of the annual International Science Youth Forum.

During my six years in Hwa Chong Institution, my teachers sparked my interest in Science. The strong foundation they laid enabled me to pursue my interest in Chemistry. I will always remember the enjoyable times spent with my teachers and friends in Hwa Chong.

**Seah Kang Yee**  
Imperial College London



## HWA CHONG CENTRE FOR TALENT DEVELOPMENT (CENTAD)

CenTad is a one-stop facility that provides an integrated Science & Technology enrichment programme for many outstanding Hwa Chong Science students. In addition, HCI has full-time scientists-in-residence to mentor students' projects and conduct workshops in research methodologies.

By bringing together the comprehensive range of science-related activities, we hope to give students a head-start in becoming leaders in research and industry, and develop passion for R&D in Biomedicine, Sciences and Engineering. The various industries involved include **Life Sciences and Pharmaceuticals, Info Tech and Communications, Electronics and Engineering.**

Our extensive collaborations with renowned organisations include:

- A\*STAR Bioinformatics Institute
- A\*STAR Genome Institute of Singapore
- A\*STAR Institute of Bioengineering & Nanotechnology
- A\*STAR Institute of Infocomm Research
- A\*STAR Institute of Materials Research & Engineering
- A\*STAR Singapore Immunology Network
- A\*STAR Singapore Institute of Clinical Sciences
- A\*STAR Singapore Institute of Food and Biotechnology Innovation
- DSO National Laboratories
- Defence Science & Technology Agency
- Health Sciences Authority
- Insect Feed Technology
- KK Women's and Children's Hospital
- NTU School of Chemical & Biomedical Engineering
- NTU School of Civil & Environmental Engineering
- NTU School of Mechanical and Aerospace Engineering
- NUS Dept of Pharmacy
- NUS College of Design and Engineering
- NUS Faculty of Science (Physics)
- NUS Yong Loo Lin School of Medicine
- Singapore Botanic Gardens
- Singhealth-Duke NUS
- SMU Lee Kong Chian School of Business
- SUTD
- Temasek Life Sciences Laboratory
- Woodlands Health Campus



## HWA CHONG ART ELECTIVE PROGRAMME

With the mission to “Develop Your Creative Identity”, the Art Elective Programme at Hwa Chong offers students a comprehensive art education that encompasses a broad range of art forms and media such as painting, photography, sculpture, design, illustration, installation, as well as media arts like filmmaking and animation.

Learning also extends beyond the classroom where students get to be exposed to art in the museums as well as overseas art trips, and participate in a diverse range of competitions and activities.

Hwa Chong AEP students have won awards in national art competitions like the “UOB Painting of the Year” competition. AEP alumni have also been awarded prestigious overseas undergraduate scholarships from the Ministry of Education, Media Development Authority, and National Arts Council, etc. Many of our alumni are currently pursuing arts-related careers such as architecture, design, media, fine arts and art education.

### ACHIEVEMENTS BY STUDENTS

#### Yang Yixuan

The Sovereign Art Charity Students Prize Singapore Judges Prize 2020

#### Liao Liyao

UOB Painting of the Year  
Highly Commended (Emerging Artist Category) 2019

#### Zhu Ziyi

Sovereign Art Charity Students Prize  
(Secondary School category) 2017

#### Calvin Aditya Kumala

Angelico Art Award 2016 -  
First Prize (Angelico Youth Prize)

#### Esmond Loh

UOB Painting of the Year -  
Painting of the Year Award (Open category) 2012

#### Dillon Poh

UOB Painting of the Year  
Most Promising Artist of the Year (Emerging Artist Category) 2022

#### Joy Liu

UOB Painting of the Year  
Highly Commended Award (Emerging Artist Category) 2022



## HWA CHONG GIFTED EDUCATION PROGRAMME

Hwa Chong provides a six-year seamless programme designed to maximise the potential of the gifted and talented students.

In the first four years, the Hwa Chong School-Based Gifted Education Programme is hosted by the iSpark Consortium. Broadly, the curriculum relies on a learner-centred approach. Experiential learning through interdisciplinary studies, individualised research studies and values-in-action initiatives form the cornerstone of our academic programme.

The Programme emphasises each student’s total development, which spans the moral, intellectual, physical, social and aesthetic domains. In-class enrichment and curriculum differentiation, including interdisciplinary studies, leadership development and research projects, are key features of this programme.

Talent development programmes such as the Science and Math Talent Programmes, Humanities Programme and the Bicultural Studies Programme are available to students from all four consortia at the upper secondary level. These programmes are hosted by all four consortia.

In Years 5 and 6, these students can join various well-established and innovative Special Programmes, including the following:

- Hwa Chong Science and Math Talent Programme-Gifted and Talented Education (SMTP-GATE) Programme
- Hwa Chong Computing Talent Programme
- MOE Humanities Programme
- MOE Art Elective Programme
- MOE Chinese Language Elective Programme
- MOE Bicultural Studies Programme





### CREATING DIVERSE LEARNING PLATFORMS

The school has transformed its various physical spaces into a vibrant and stimulating environment where learning takes place anytime, anywhere. Key levers include technologies like high-speed wireless broadband and network computers. Such ICT affordances enable teachers to design learning packages that makes blended learning possible. Blended learning enriches and extends learning, enables peer collaboration, self-directed and self-initiated explorations within and beyond the school to nurture future-ready students.

By harnessing ICT, teachers have tapped on their educational know-how to design thinking tools for deep learning and critical thinking. These tools also facilitate peer-to-peer collaboration within and outside the school compound.

In the end, our innovative curriculum will engage students in independent, customised and experiential learning.

## Learning without Borders

### HWA CHONG GLOBAL ACADEMY

As part of its identity as a Future School, Hwa Chong has set up a Global Academy — a first for a Singapore school. This includes our **virtual global campus**, the **Hwa Chong-Beijing Satellite Campus**, and our **winter campuses** in China.

Through our Global Academy, students of different age groups, talents and abilities from different schools across continents will have many opportunities to collaborate on long-term advanced research projects in various areas. We also hope that students and teachers can gain experience from simulated real-time experiences in leading global companies and research organisations like A\*STAR's Institute of Bioengineering & Nanotechnology, Google and Microsoft.

In particular, we place much emphasis on the virtual learning community and vast alumni support network that extend to different parts of the world. Our virtual global campus is an interactive virtual platform that links our current students to Hwa Chong alumni and partners around the world for cross-border learning opportunities.

Unlike overseas alumni groups (which exist for social networking), members of the local and overseas support groups are committed to contributing to the school in their various capacities. To date, we have established overseas support groups in **Beijing, Hong Kong, San Francisco** and **London**. Additionally, local support groups in **Medicine** and **Law** have been set up.

Hwa Chong combines the intellectual and imaginative, liberating us from conventional modes of thinking. The environment encourages us to look at our world with an inquiring, critical perspective and a renewed sense of possibility.

This new understanding of our community has inspired me to be an active changemaker in society.

**Ho Rui An**

HCI Community Service Award Winner

Education Merit Scholar

Fine Art, University College London



## The Hwa Chong Global Academy

Hwa Chong has built a global partnership network in over 20 countries across four continents. These partnerships have sown seeds of ideas for HCI to launch innovative initiatives among schools in Singapore.

These include the Global Learning Alliance with Columbia University and Scarsdale District (New York, USA), cross-border research collaborations with the Loudoun County Academy of Science (Virginia, U.S.A.), and partnering the 2<sup>nd</sup> High School affiliated to Beijing Normal University in China to set up the flagship Hwa Chong-Beijing Satellite Campus.

This new approach to education through collaborations with universities serves to broaden our students' experience.

# Nobel Laureates & Fields Medalists at the Hwa Chong International Science Youth Forum (2009 – 2023)



"for the discovery of ubiquitin-mediated protein degradation"

**Professor Aaron Ciechanover**  
The Nobel Prize in Chemistry 2004



"for groundbreaking experiments regarding the two-dimensional material graphene"

**Sir Andre Konstantin Geim**  
The Nobel Prize in Physics 2010



"for the development of multiscale models for complex chemical systems"

**Professor Arieh Warshel**  
The Nobel Prize in Chemistry 2013



"for development of methods to cool and trap atoms with laser light"

**Professor Claude Cohen-Tannoudji**  
The Nobel Prize in Physics 1997



"for the discoveries of split genes"

**Sir Richard John Roberts**  
The Nobel Prize in Physiology or Medicine 1993



**Professor Ngô Bảo Châu**  
The Fields Medal 2010



"for work showing an internal structure of protons later known to be quarks"

**Professor Jerome Isaac Friedman**  
The Nobel Prize in Physics 1990



"for work leading to the discovery of the W and Z particles"

**Professor Carlo Rubbia**  
The Nobel Prize in Physics 1984



"for the discovery of asymptotic freedom in the theory of the strong reaction"

**Professor David Jonathan Gross**  
The Nobel Prize in Physics 2004



"for pioneering contributions to the theory of superconductors and superfluids"

**Sir Anthony James Leggett**  
The Nobel Prize in Physics 2003



"for the discovery of the bacterium Helicobacter pylori"

**Professor John Robin Warren**  
The Nobel Prize in Medicine 2005



"for the discovery of key regulators of the cell cycle"

**Sir Tim Hunt**  
The Nobel Prize in Physiology/ Medicine 2001



"for discovery of a cross-coupling reaction creating a new C-C bond in organic synthesis"

**Professor Ei-ichi Negeshi**  
The Nobel Prize in Chemistry 2010



"for his contributions to the theory of electron transfer reactions in chemical systems"

**Professor Rudolph A Marcus**  
The Nobel Prize in Chemistry 1992



"for the design of programming languages and software methodology regarding object-oriented programming"

**Professor Barbara Liskov**  
A.M. Turing Award 2008



"for dye-sensitised solar cell"

**Professor Michael Grätzel**  
The 2010 Millennium Technology Prize



"for developing a homotopy theory for algebraic varieties and formulating motivic cohomology"

**The late Professor Vladimir Voevodsky**  
The Fields Medal 2002



"for the discovery and development of the green fluorescent protein, GFP"

**Professor Martin Lee Chalfie**  
The Nobel Prize in Medicine 2008



"for the discovery of Giant Magnetoresistance"

**Professor Albert Fert**  
The Nobel Prize in Physics 2007



"for penetrating investigation of the so-called parity laws which has led to important discoveries regarding the elementary particles"

**Professor Yang Chen Ning**  
The Nobel Prize in Physics 1957



"for joint discoveries concerning genetic regulation of organ development and programmed cell death"

**The late Professor Sydney Brenner**  
The Nobel Prize in Physiology or Medicine 2002



"for the discovery of superfluidity in helium-3"

**Robert Coleman Richardson**  
The Nobel Prize in Physics 1996



"for the determination of the three-dimensional structure of a photosynthetic reaction centre"

**Professor Hartmut Michel**  
The Nobel Prize in Chemistry 1998



"for his development of Nuclear Magnetic Resonance Spectroscopy for determining the three-dimensional structure of biological macromolecules in solution"

**Professor Kurt Wüthrich**  
The Nobel Prize in Chemistry 2002



**Professor Stephen Smale**  
The Fields Medal 1966



"for the discovery of quasicrystals"

**Professor Danny Shechtman**  
The Nobel Prize in Chemistry 2011



"for his contributions to the development of stochastic Loewner evolution, the geometry of two-dimensional Brownian motion, and conformal field theory"

**Professor Wendelin Werner**  
The Fields Medal 2006



"for the discovery of quantised Hall Effect"

**Professor Klaus von Klitzing**  
The Nobel Prize in Physics 1985



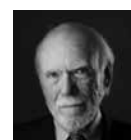
"for the studies of the structure and function of the ribosome"

**Professor Ada E. Yonath**  
The Nobel Prize in Chemistry 2009



"for the theoretical discovery of a mechanism that contributes to our understanding of the origin of mass of subatomic particles."

**Professor François Englert**  
The Nobel Prize in Physics 2013, Shared



"for decisive contributions to the LIGO detector and the observation of gravitational waves."

**Professor Barry C. Barish**  
The Nobel Prize in Physics 2017



"for enabling smart technology"

**Dr Tuomo Suntola**  
Millennium Technology Prize 2018



"for developing K-theory, a generalized Lefschetz fixed-point theorem and the Atiyah-Singer theorem"

**Sir Michael Francis Atiyah**  
Fields Medal, 1966 & Abel Prize, 2004



"for the development of multiscale models for complex chemical systems."

**Professor Michael Levitt**  
Nobel Prize in Chemistry 2013



"for groundbreaking experiments regarding the two-dimensional material graphene."

**Sir Konstantin Novoselov**  
The Nobel Prize in Physics 2010



"for his immense contributions to the study of the cell cycle, particularly in identifying genes that control cell division in yeast and the processes that assure its accuracy"

**Professor Leland Harrison Hartwell**  
The Nobel Prize in Physiology or Medicine 2001



"for the design and synthesis of molecular machines"

**Sir James Fraser Stoddart**  
The Nobel Prize in Chemistry 2016



"for discovering the superfluid nature of  $^3\text{He}$ "

**Professor Douglas Dean Osheroff**  
The Nobel Prize in Physics 1996



"whose discoveries in spintronics enabled a more than 10,000-fold increase in the storage capacity of magnetic disk drives"

**Professor Stuart Parkin**  
Millennium Technology Prize 2014

## Learning from Thought Leaders



Hwa Chong students and overseas delegates interacting with President Halimah Yacob at the Asia-Pacific Young Leaders Summit, an annual summit organised and hosted by Hwa Chong students.

Hwa Chong has for years dedicated itself to nurturing leaders in research, industry and government.

Annually, the school organises many activities that allow students to interact with and learn from leaders in various fields.

Students involved in the **Integrated Boarding Programme** converse with alumni from the industry during their "Scoop Dinner Series".

Every year, a sizeable number of students gain deep insights into the issues faced by everyday Singaporeans through observing Meet-the-People sessions during the Grassroots Attachment Programme.

Many students also shadow doctors, lawyers, accountants and other senior executives from **leading global companies** to see how successful companies are run.

More than 30 Nobel Prize-winning scientists and Fields Medalists have engaged Hwa Chong students in the last six years.

**Our Global Academy and its virtual campus** put Hwa Chong students in touch with some of the most outstanding individuals in the world, and allow them to hone the skills that they need to excel in our technological world. Hwa Chong students enjoy a holistic education that puts them in touch with the dynamics and challenges of the real world.

## Distinguished Visitors to HCI (2011 - 2021)



Professor Ruth Vinz sharing on global literacies with Hwa Chong teachers



Mr George Yeo engaging teachers and students at the Hwa Chong Centennial Insights Series

### Mr George Yeo

Senior Advisor, Kerry Logistics Network and Former Minister for Foreign Affairs

### Dr Liu Thai-Ker

Founding chairman of Morrow Architects & Planners Pte Ltd and former chief architect and CEO of the Housing and Development Board (HDB)

### Professor Wang Gungwu

Chairman of the East Asian Institute, National University of Singapore

### Thomas Friedman

New York Times and Pulitzer Prize-winning writer

### Professor Howard Gardner

John H. and Elisabeth A. Hobbs Professor of Cognition and Education, Harvard Graduate School of Education

### Professor Michael Puett

Walter C. Klein Professor of Chinese History and Anthropology at Harvard University

### Professor Daniel Hastings

Aeronautics and Astronautics Department Head Cecil and Ida Green Education Professor, MIT

### Professor Tony Wagner

Senior Research Fellow, Learning Policy Institute

### Roy Blatchford

Director of the National Education Trust, UK and Former Chief Inspector of Schools

### Professor David Hansen

John L & Sue Ann Weinberg Professor in Historical & Philosophical Foundations of Education Teachers College, Columbia University

### Pasi Sahlberg

Former director general of the Finnish education system

### Professor Ruth Vinz

Enid & Lester Morse Professor in Teacher Education; Professor of English Education, Founding Director of the Center for the Professional Education of Teachers (CPET), Columbia University

### His Excellency Nursultan Nazarbayev

Former President of Kazakhstan

### His Excellency Ildar Khalikov

Prime Minister of Tatarstan

### His Excellency Dr Michael Pulch

Former European Union Ambassador to Singapore

### His Excellency Marc Absensour

French Ambassador to Singapore

### His Excellency Dr Norbert Riedel

German Ambassador to Singapore

### Mr Bilahari Kausikan

Ambassador-at-Large, Ministry of Foreign Affairs, Singapore

### Top Finnish school leaders

### Top UK school leaders

### Award-winning teachers from Sweden

### MOE Thailand and Chulalongkorn University



### Hwa Chong: Best of East and West

Over the years, as a result of the school's pursuit of excellence in all-round education and a unique approach to bilingualism, many Hwa Chongians have taken up leadership positions in different strata of society, making useful contributions to the people and organisations they serve. Hwa Chongians also distinguish themselves in their bilingual abilities, making them most effective in international markets, such as China.

**MR LEE YI SHYAN**  
Chairman, Business China

## Developing Bicultural Leaders

Drawing from the **best of the EAST and WEST**, Hwa Chong provides a seamless 6-year Integrated Programme that caters to the needs of the top 5% of students from Singapore and the region.

Established in 1980, the Hwa Chong **Humanities Programme** is today a **leading overseas source of successful applicants**, outside the United Kingdom, to both Oxford and Cambridge Universities.

In 2005, we pioneered the **Bicultural Studies (China) Programme (BSP)**, which allows students to appreciate their cultural inheritance, learn about China, as well as understand contemporary Chinese developments.

In 2015, the Hwa Chong BSP received its greatest affirmation yet, with a record of 10 students admitted to the renowned **Peking University**. HCI is also the first school in Singapore to set up **the Hwa Chong-Beijing Satellite Campus** in 2007. Currently, the school hosts extensive immersion programmes in several other cities in China, including Xi'an, Wuxi, Shanghai as well as Shunde.

### BEST OF CHINESE VALUES AND WESTERN IDEAS

At the heart of the Hwa Chong Integrated Programme is the emphasis we place on moral and character education. The best of Chinese values and Western ideas that have had a strong impact on society are infused into our school curriculum and culture.

Our curriculum is designed to ensure that all Hwa Chong students are well-versed in the developments and challenges of the modern world, as well as to be able to articulate and engage these in both English and Chinese languages. For example, one of the subjects, Oral Communication, requires students to discuss and debate real-world current issues in both English and Chinese.

### CULTIVATING MINDS FOR THE FUTURE

Inspired by Howard Gardner's (2008) "Five Minds for the Future", Hwa Chong cultivates in our students the Disciplined Mind, the Synthesising Mind, the Creating Mind, the Respectful Mind, the Ethical Mind, as well as a sixth mind, the Entrepreneurial Mind. Individuals equipped with these six minds will thrive in the global society.

### DEEP APPRECIATION OF EASTERN AND WESTERN CULTURES

Hwa Chong's leadership framework seeks to nurture resilient individuals with a keen sense of **purpose, commitment** and **compassion**. In addition, these individuals would be bicultural talents with a deep appreciation for both Eastern and Western cultures.

### ONG TENG CHEONG LEADERSHIP PROGRAMME

Hwa Chong's well-established Ong Teng Cheong Leadership Programme further develops our students' intellectual, leadership, and personal potential.

Students in this programme are involved in entrepreneurial training, leadership mentoring and grassroots attachment, cross-cultural studies, and interaction with peers from overseas.

In the end, our vision is to see all our students graduate as confident, able, and caring individuals, ready to take on leadership roles in both local and global communities.

## 语文特选课程（华文）

华中在1990年推出语文特选课程（简称语特），旨在培养兼具跨文化思维及思辨能力的现代人，又有传统文化底蕴及涵养的双语人才。自课程设立以来，华中学生的表现非常出色，每一届约有半数以上的人获得由教育部颁发的语特奖学金。三十多年来，本课程润泽了无数热爱华文与文学青年的心灵，并在“语特”这座共同的精神家园留下了许多美好的回忆。

迄今为止，华中语特已造就了两名总统奖学金得主（1994年和2002年），以及为数不少的总理书籍奖得主。此外，许多华中语特毕业生也荣获各机构的奖学金，负笈中国、台湾、英国、美国、日本、法国、

德国和澳洲等地的著名大学攻读学位。他们学成之后，便投入文教界、传媒界、司法界、外交界、财经界和政军界的工作，在各个领域里扮演着举足轻重的角色。

为了丰富课程内容，华中语特这些年来采用了多元化的课程设计，通过戏剧教学法、个性化学习、差异教学、网络协作教学等方式组织课堂活动，彰显了“以人为本”的教学理念。语特生也有机会参加一系列的深广活动，包括讲座、学习之旅、读书报告、刊物出版等，进而更深入地感受文学与艺术的魅力。

## CHINESE LANGUAGE ELECTIVE PROGRAMME

- Since 2009, China's top three universities – **Peking, Tsinghua and Fudan** – have awarded Hwa Chong LEP students **with full-scholarships based on the strength of the Hwa Chong Diploma**.
- LEP (Chinese) students have clinched top positions in various national competitions, including but not limited to, Script It Right - Chinese Radio Drama Script Writing Competition & Workshops, National Secondary Schools Chinese Electronic Creative Writing Competition, National Translation Competition, as well as National Mandarin Oratorical Contest.



## 双文化课程（中国）

为了栽培学贯中西的双文化精英，华中率先在2005年开设双文化课程，供中三至高二学生修读。双文化学生不仅须深入了解与中国相关的课题，也须到中国实地考察。课程规定学生在中学阶段要修读高级华文，并选修中国当代社会概况。升上高中后，学生则必须修读中国通识，进一步研究当代中国的经济、政治、社会与外交。此外，教育部每年也安排了“双文化营”以及“双文化研讨会”让学生参加。

修课期间，成绩优异者将能获得教育部奖学金，除了免缴学费外，他们到中国 and 西方国家浸濡的费

用，也能获得津贴。杰出的学生在高中毕业后，还能申请新加坡公共服务委员会、法定机构、政联公司和私营企业所提供的奖学金，到中国或外国的顶尖大学深造。从2008年开始至今，华中双文化课程已孕育了逾40名公共服务委员会海外优秀奖学金得主，而他们当中有超过一半的人选择到中国修读本科。2010年首度颁发的“李显龙杰出双文化学生奖”也由华中学生获得。2010、2011、2015、2017、2018、2020和2021年，我们的双文化毕业生成为双料得主，同时荣获“李显龙杰出双文化学生奖”和总理书籍奖。

## BICULTURAL STUDIES PROGRAMME

- Hwa Chong BSP and LEP (Chinese) have **consistently topped** the number of recipients for the Prime Minister's Book Prize (JC Category) in the nation. We have produced 6 winners (more than half of the number of recipients in the country) in each one of these years: 2009, 2011, 2015, 2019, 2020.
- Since the inauguration of the **Lee Hsien Loong Award for Outstanding Bicultural Students** in 2010, the Hwa Chong Bicultural Studies Programme has been producing at least 1 award winner every year. We have been producing the **most recipients** for this award in the nation in each one of these years: 2013, 2014, 2015, 2017, 2018, 2021.
- Hwa Chong BSP **consistently topped** the number of recipients for the **scholarship conferred by the Singapore Federation of Chinese Clan Association (SFCCA)** to sponsor local students to study in top Chinese universities, since the inauguration of the scholarship in 2011.
- Since 2013, Hwa Chong BSP **consistently topped** the number of recipients for the Chinese Government Scholarship conferred by the China Scholarship Council to study in top Chinese universities.





## HWA CHONG HUMANITIES PROGRAMME

As the first institution chosen by the Ministry of Education to pioneer the Humanities Scholarship Programme, Hwa Chong has established and maintained its position as a leading centre for successful applications to top universities around the world.

In 2021, The Telegraph, UK, reported that Hwa Chong was “**one of the top international schools for Oxbridge offers.**” This comes a decade after the newspaper found that under the Hwa Chong Humanities Programme alone, “more than 300 students have won places at Britain’s top two universities.” These figures place HCI’s Humanities Programme as a leading overseas source of successful applicants to both Oxford and Cambridge Universities outside of the UK. Since the Programme’s inception, over 400 alumni have graduated from Oxford and Cambridge, and in recent years an impressive record of admissions has been built up with the Ivy League institutions of the USA as well. An increasing number of students also venture to top-tier universities in non-traditional destinations such as Germany, France, and Japan.

The Humanities Programme promotes academic excellence whilst preparing students for a lifetime of personal development and connection to community. The programme has produced **half of Hwa Chong’s 60 President’s Scholars to date.** After they leave Hwa Chong, our alumni can be found in fields as diverse as banking, technology, journalism, philanthropy, academia, the military, and foreign services.



Hwa Chong students on study trips to China and Vietnam as part of the Humanities Programme



### Achieving World-Class Excellence

Hwa Chong has taught me to live with passion and lead with compassion. These time-honoured values have shaped me into who I am today. I am thankful for my teachers and friends who have guided and supported me through my life in Hwa Chong. The fond memories that we share in Hwa Chong – staying back till the wee hours preparing for Mid-Autumn Festival (MAF) celebrations, trekking through the forests of Pulau Ubin with OAC, or simply catching up during breaks at the class bench, will stay with me even as I embark on my career with the Navy.

**SAM TAN WEI SHAN**  
United States Naval Academy  
First foreign student to top the cohort

# 64 WORLD CHAMPIONSHIP TITLES (2006-2022)

## 3<sup>rd</sup> Hi-Tech International Piano Competition

World Champion  
(Category C: 17 – 35 Years) 2015

Held every three years in Tianjin, this international piano competition sees more than 300 participants from over 35 countries. The judging panel consists of 16 adjudicators with professors hailing from music conservatories around the world such as Russia, Holland and Germany.

## 5<sup>th</sup> World Choir Games

World Champion (Mixed Category) 2008

In that year, the Games was arguably the largest competition in the history of choral music, with 71 international jurors and about 441 ensembles from 93 nations taking part. There were more than 600 performances in 28 different categories. The Choir earned itself 2 Gold Medals in the Folklore and Mixed Choir categories.

## Global Talentpreneur Innovation & Collaboration Business Competition

World Champion 2007

Held in Taipei between 23 and 28 July, the competition required students to write a comprehensive business plan and present their idea before an international panel of 15 judges comprising professors, government officials and venture capitalists.

## Stanford Global Innovation Tournament

World Champion 2008

5 Hwa Chong Institution students and 3 high school students from the Loudoun County Academy of Science in Virginia worked across borders and twelve time zones to clinch the highly prestigious Extreme Collaboration Award in the Stanford University Global Innovation Tournament. More than 61 institutions from 14 countries participated in the Stanford University Global Innovation Tournament.

## Oracle ThinkQuest Competition

World Champion 2009

This global competition challenges student teams to develop interactive educational portals on topics of their choosing and demonstrate critical 21st century skills, including teamwork, technology, and communication skills. In 2009, the team emerged champion from among 955 teams from 83 countries.

## 60<sup>th</sup> European Music Festival for Young People

World Champion 2012

The festival caters to choir and instrumental ensembles in alternate years. Each year, the festival draws 4000 to 6000 youth from all over the world, to pit their musical talents.



## Festival of Songs Olomouc

Overall Champion 2010

A prestigious international choral competition held in Olomouc, the Czech Republic, the 38th Festival of Songs saw tough competition from 106 choirs from 11 countries.

## RoboCupJunior

First Place 2019

Held in Sydney, Australia from 2 to 8 July, RoboCupJunior (RCJ) is a highly prestigious international robotics competition that enables children aged 13 to 19 to create robots. A team of three Hwa Chong students took home Singapore's first international medal in this competition. They built, developed, and programmed a humanoid robot that was able to put on a creative stage performance.



## International Artificial Intelligence Fair

World Champion 2020 | 2019

Held in Beijing, the inaugural competition saw 132 project submissions from 56 secondary schools across China (including Hong Kong), US, India, Japan, and Singapore.

## International Civil Aviation Organisation Concepts Competition

Asia Pacific Regional Champion 2019

The ICAO's aviation competition focused on gathering the world's most innovative future aircraft designs. One Hwa Chong student was awarded the top regional prize in the 'Concepts' Category for his visionary project outlining an autonomous flight system integrated with a rail-based network.

## Eurasian Schools Debating Championship

Best Speaker Award 2014

Featuring 24 international debating teams from around the world, the best speaker award was conferred on a HCI student who was part of Team Singapore. Team Singapore also emerged as champions against South Africa in the finals.

## World Scholar's Cup

World Champions 2014 | Overall Team Championships (Senior & Junior Divisions) 2012 | Best All-Round Individual Awards (Senior & Junior Divisions) 2012 | World Champions (Individual & Team) 2011 | Overall Individual Champion 2010

Bringing together thousands of students from across five continents, this annual academic tournament tests participants' multidisciplinary knowledge across the arts and the sciences.



## Angus Ross Prize

International Literature Prize 2014 | 2013 | 2012 (x2) | 2009

Selected from 12,000 scripts worldwide, this literature prize is awarded to the best performing non-British candidate in the GCE A-Level Examinations. Outstanding responses are judged on maturity of thought and brilliance of expression.

## Odyssey of The Mind World Finals

World Champion 2007

Attracting more than 3000 finalists from countries like Australia, China, Kazakhstan, Germany, Poland and the USA, this creative problem-solving competition brings together the best minds in their respective state/country.



## 16<sup>th</sup> Asean+ Age Group Chess Championships (AAG)

International Chess Master in 2015

452 youths from 16 countries participated in this prestigious chess competition. A HCI student was conferred Singapore's first individual gold in the open under-20 division, making him the nation's first junior to obtain the International Master (IM) title in a decade.

## Intelligent Ironman Creativity Contest

World Champions 2017 | 2015 | 2007

Each year, more than 30 teams from countries like Germany, Taiwan, Korea and Singapore take part in this demanding multi-disciplinary competition. Competitors undergo 72 hours of continuous gruelling competition in order to fabricate an innovative product requiring knowledge in the Natural Sciences and Social Sciences as well as Physical Fitness skills.

## Future Problem Solving Program International

2021 | 2020 | 2018 | 2017 (x2) | 2016 | 2015 | 2014 | 2010 | 2008 | 2007

About 250,000 students from Australia, Canada, Hong Kong, Japan, Korea, Malaysia, New Zealand, Russia, the United States and Singapore compete in this annual competition. 2015's championship win was also accompanied by the prestigious E. Paul Torrance Beyonder Award, for projects that have far excelled beyond what is normally expected of students.



## World Junior Wushu Championships

World Champions 2010 | 2008

The World Junior Wushu Championships is an international sporting event organized by the International Wushu Federation for male and female competitors below 18 years of age. In 2010, the tournament saw over 700 participants from more than 40 countries competing in both the Taolu and Sanda competition.

## Barcelona Dance Award

World Champion (Choreography) 2010 | World Champion (Ethnic Dance) 2010

Bringing together 22000 dancers worldwide, the Barcelona Dance award comprises a commission of international experts, critics and representatives from renowned dance companies.

## Dance Grand Prix Italia

World Champion 2012

Despite facing stiff competition from about 1100 international participants, our dancers won the championships and also took home the following additional awards for Best Ethnic Dance, Best Contemporary Piece, and Best Choreography.



### Purple Comet International Mathematics Competition

World Champions 2014 | 2010 | 2009 | 2007 | 2006

Competing against established teams from top schools and mathematics circles around the world such as the Thomas Jefferson High School for Science and Technology, San Jose's Segra Maths Academy and Colorado Maths Circle, our students have clinched the championships for 5 years, attaining perfect scores in some years.



### International Mathematical Modeling Challenge (IM<sup>2</sup>C)

Top Award and Outstanding Team 2021

The IM<sup>2</sup>C promotes the teaching of mathematical modeling and applications, premised on the firm belief that students and teachers need to experience the power of mathematics to help better understand, analyze and solve real world problems outside of mathematics itself – and to do so in realistic contexts.

### Harvard-Massachusetts Institute of Technology Mathematics Tournament Online Competition

World Champion 2010

The HMMT is a prestigious annual mathematics tournament for high school students organized by Harvard and MIT. Every year, the tournament sees close to 1000 participants from some of the best international schools; making it one of the largest mathematics competitions in the world.

### International Regions Mathematics League

World Champions 2011 | 2009

An extension of the American Regions Mathematical League (ARML) that began in 1976, the IRML invites some of the best and brightest students worldwide to compete in the international competition. It attracts exceptionally talented US students in Mathematics from top schools like Thomas Jefferson High School for Science and Technology to participate.

### Taiwan International Science Fair

World Champions 2016 | 2017

In 2016 and 2017, Hwa Chong students received a total of three awards. Both teams received the top prize in the Medicine & Health category and the prestigious Young Scientist Award. They were the only teams representing Singapore.

### International Biology Olympiad

Ranked First and Third in the World in 2009

Held in Tsukuba, Japan, from 12 to 19 July 2009, the 20th IBO saw 221 international participants (maximum 4 representatives from each country) from 59 countries, including traditional powerhouses like China, USA, Russia, Japan, South Korea, Vietnam, Germany and the United Kingdom. In 2009, 3 out of 4 students representing Singapore at the IBO were from HCI.

### International Science and Engineering Fair

World Champion 2018

One of the world's largest annual pre-college science fairs, and widely recognized as the 'Olympics' of science competitions, the ISEF provides a platform for top science and engineering talents to showcase their innovative solutions to tackle real-world challenges as well as apply their learning of Science concepts outside the classroom. Each year, 1800 students from over 75 countries showcase their independent research projects at this fair.

### Global Youth Science and Technology Bowl

2022

At the Global Youth Science and Technology Bowl, an international student science project competition, Low Jeen Liang (21S7B), Tan Wei An (21S7D), and Yiu Yi Han Kinsey (21S6G), obtained the Grand Prize - Bronze Award for their project: "Investigating the Bioelectric Effect for the Treatment and Subsequent Inhibition of Nosocomial Biofilm". Notably, their work has also since been adopted by the National University Hospital's pediatric ward.

### Clean Tech Competition

World Champions 2021 | 2014 | 2013

Focusing on the scientific understanding of real-world issues and the integration of environmentally responsible solutions, the Clean Tech competition challenges participants' competency in technological application. The focus on larger global environmental issues rooted in an understanding of STEM (science, technology, engineering, and math) concepts nurtures the best minds to become the next generation of innovators.



### Stockholm Junior Water Prize

World Champion 2018

The Stockholm Junior Water Prize is an international annual competition with more than 10,000 entries from all over the world. The competition brings together young people between the ages of 15 and 20 who have conducted water-related projects of proven environmental, scientific, social or technological significance. It is organized by the Stockholm International Water Institute (SIWI) which aims to solve global water challenges by improving how water is used and managed. Their ultimate goal is to create a just, prosperous and sustainable future for humanity.

"Hwa Chong provided an intellectually stimulating environment for our minds to grow. Moreover, the knowledge that Hwa Chong students have been successful in world class universities, as well as in many different career fields, where they made contributions to society, gave me the confidence to know that I, too, could emulate them."

MR NG CHEE KHERN  
Permanent Secretary (Manpower)



## Top Scholarships Won



Yiik Chia receiving The Singapore Police Force Scholarship from Mr K Shanmugam, Minister for Home Affairs & Minister for Law  
Image credit: Singapore Police Force



Ooi Ren An receiving the Public Service Commission Scholarship (Engineering) from Mr Chan Chun Sing, then Minister for Trade and Industry  
Image credit: Public Service Commission

Hwa Chong students are awarded an impressive share of government and private organisation undergraduate scholarships every year.

To date, the Institution has produced 60 President's Scholars.

Top Scholarships awarded to Hwa Chongians include:

- 60 President's Scholarships
- National Science Scholarship (BS)
- BCA - INDUSTRY iBuildSG Undergraduate Scholarship
- BCA-Industry Built Environment Undergraduate Scholarship
- JTC Undergraduate Scholarship
- JTC Scholarship
- Singapore Government Scholarship Ministry of Home Affairs Merit Scholarship
- MSF-Singapore Government Scholarship
- Singapore Government Scholarship (Civil Defence - Paramedic)
- Singapore Government Scholarship (Prison Service)
- Singapore Government Scholarship (Home Team Science and Technology)
- Singapore Government Scholarship (Open)
- SAF Merit Scholarship
- Community Nursing Scholarship
- Healthcare Administration Scholarship
- NLB Undergraduate Scholarship
- People's Association (PA) Scholarship
- Singapore Sustainability Scholarship (Local)
- PSA MaritimeONE Scholarship
- SNCF Co-operative Scholarship
- SPH Journalism Scholarship
- Social Service Scholarship
- National Infocomm Scholarship



**ARTURO NEO | PRESIDENT'S SCHOLAR**  
Medicine, National University of Singapore

What I enjoyed most about Hwa Chong was the opportunity to know people of diverse backgrounds, as well as having the honour to be under the tutelage of outstanding teachers, who were also our role models. I am thankful to all my teachers and my mentors for guiding me and being alongside me all these years.



**SHAWN CHENG | PUBLIC SERVICE COMMISSION SINGAPORE GOVERNMENT SERVICE SCHOLARSHIP**  
International Relations, Peking University

Hwa Chong was pivotal in shaping me to be who I am today. From the teachers and friends I met, the academic programmes I joined, the trips I had overseas, to a whole slew of talks, conferences, competitions and activities; it was this cornucopia of opportunities and resources that opened my eyes, mind and heart. That breadth of exposure instilled in me skills critical in whatever I would do in the future, and the relationships forged that I know will accompany me a long way.



**KEEFE NG | SINGAPORE ARMED FORCES SCHOLARSHIP**  
Philosophy, Politics and Economics, King's College London

Hwa Chong has provided me with opportunities. The rigour of balancing commitments taught me the values of grit and tenacity, encapsulated by the motto of 自强不息. Hwa Chong inspired me to lead with passion and compassion, and to contribute as a useful member of society.



**RUSSELL EWE | PRESIDENT'S SCHOLAR**  
Politics and Philosophy, London School of Economics and Political Science

The Hwa Chong environment was one which broadened my horizons. I am thankful to have had teachers and peers by my side who were not only dedicated in their pursuit of academic excellence, but were fundamentally rooted in values and principled in their beliefs. It is this balance which has shaped me into the person I am today, and I look back upon my time in Hwa Chong with many fond memories. Thank you, Hwa Chong!



**TAN JIN HSI, GABRIEL | SINGAPORE POLICE FORCE SCHOLARSHIP**  
Law, Cambridge

I would like to express my sincerest gratitude to all my teachers in Hwa Chong for always bringing out the best in me through their constant guidance and support. I also wish to thank the school for the many opportunities it has provided.



**TIMOTHY YAP | PRESIDENT'S SCHOLAR**  
Law, Brasenose College, Cambridge

In my formative years, Hwa Chong has provided me with an empowering education, a wealth of unforgettable experiences and--most of all--a strong sense of purpose with which I chart the course of my life.

## Flying Singapore's and Hwa Chong's Flags High

Virtually every student goes on to undergraduate studies, with 50% of each cohort being offered admission to top overseas universities as well as Medicine, Law and Scholars Programmes at NUS/NTU/SMU.

Since its inception, Hwa Chong has been a leading overseas source of successful applicants to both Oxford and Cambridge Universities.



Hwa Chong alumnus, Cong Lin, named Harvard's Most Promising Graduate

The following is a selection of universities where Hwa Chongians go to pursue their undergraduate studies:

Brown	Melbourne
Cambridge	New York
Carnegie Mellon	Oxford
Chicago	Peking
Columbia	Princeton
Cornell	Shanghai Fudan
Dartmouth	Stanford
Duke	Tsinghua
Harvard	University of California, Berkeley
Imperial College London	University of California, Los Angeles
Johns Hopkins	University College London
London School of Economics and Political Science	University of Pennsylvania
Massachusetts Institute of Technology	Yale

## Excelling on the World Stage



Hwa Chong Institution (HCI) is Singapore's premier Independent School, with a rich history of 101 years. The Institution is the culmination of the watershed merger in 2005 between the former Chinese High School (founded 1919) and Hwa Chong Junior College (founded 1974).

For **achieving world-class standards of excellence** in education, HCI is the first GCE A-Level Integrated Programme school to win the Singapore Quality Award (Special Commendation) in 2016.

Virtually all our students go on to leading universities, with a strong entry each year to **Oxford, Cambridge, Imperial College, University College London, Brown, Columbia, Harvard, Princeton, MIT, Stanford, Yale, UC Berkeley, UCLA, Peking, Tsinghua** and **Fudan**.

Since its inception, Hwa Chong has been a leading overseas source of successful applicants to both Oxford and Cambridge Universities.

Between 2009 and 2020, **29 Hwa Chong alumni** topped Harvard, Princeton, Cornell, Brown,

砥砺自我, 追求创新, 知恩怀本 - 这些是母校留给我最宝贵的人生礼物。希望学弟学妹们也能带着这份馈赠 前行, 在人生道路上不懈奋斗, 成就属于自己的精彩!

Hwa Chong has been a key guiding influence in my life. My alma mater has taught me to apply myself diligently in the pursuit of excellence, to always strive for innovation and to appreciate my roots and all of life's challenges. I wish for all my juniors at Hwa Chong to carry these lessons on your life journey as well, so that they may never cease the good fight, and be equipped to forge their own legacy in life.

**Ye Gang**  
Co-founder, Sea Limited

Stanford, Cambridge, Oxford, Imperial College London, University College London, King's College London, London School of Economics, West Point, U.S. Naval Academy and Shanghai Fudan.

Generations of students have continued Hwa Chong's tradition of excellence. Between 2006 and 2022, our students have brought pride not just to the school, but to Singapore, when they won **64 World Championship Titles**.

These international competitions attract thousands of entries from top schools, universities and research institutes in different countries across different continents. To emerge champions, our students had to display a whole range of skills from future problem solving, creativity, team building, mathematical prowess, entrepreneurship to out-of-the-box thinking.



延<sup>续</sup>华<sup>中</sup>精<sup>益</sup>求<sup>精</sup>的<sup>优</sup>良<sup>传</sup>统



### Join the Hwa Chong Tradition of Excellence

To me, Hwa Chong is a place where friendship is treasured more than doing well in class, where education is valued more than the school's ranking, and where bringing glory to the school is more meaningful than winning a medal for the individual. Hwa Chong is not just a good school. This is a school that has soul, humility, is rooted in values, and bears the belief that our success is measured by our contribution to society.

MS GRACE FU  
Minister for Sustainability and the Environment

# Hwa Chong Fast Facts 2023

## At the Forefront of Educational Innovation

**1<sup>st</sup>**

- First Independent Integrated Programme School to pioneer the FutureSchools@Singapore
- First and only **Independent** School to set up a Beijing satellite campus
- First Singapore school to partner Columbia University and Scarsdale Public Schools** (a top performing district in New York) to form the Global Learning Alliance
- First GCE A-Level Integrated Programme School in the country to be awarded the **Singapore Quality Award with Special Commendation**, for achieving world-class standards of excellence in education
- First and only Singapore school showcased in **Nature** as an institution that offers one of the world's "**most innovative science education programmes**"

**Public Service Premier Award:** HCI was one of two organisations to receive the **Public Service Premier Award** in 2017. This is the most prestigious of public service awards given in recognition of "**continuous endeavours to achieve**" and "**supreme levels of organisational excellence**"

## Tertiary Education

Admission to **Top Overseas Universities** **>50%**

gain admission to top overseas universities as well as Medicine, Law and scholars programmes in the local universities

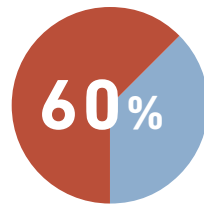
Won Places at **Oxford and Cambridge**

**> 400** Hwa Chong Humanities Programme students have won places at Oxford and Cambridge

Bicultural **Public Service Commission Scholars**

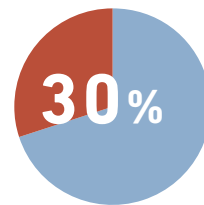
**RECORD** number of bicultural Public Service Commission scholars studying in China

## Latest Achievements of Class of 2021 at the GCE A-Level Exams



**3 H2 Distinctions and Better**

scored at least 3 H2 Distinctions and better, making them eligible for admission to top universities worldwide



**scored a perfect University Admission Point score of 90**

## Accolades

**HIGHEST NUMBER OF**  
★ **Singapore Armed Forces Scholars** ★

awarded among all schools (2018)

★ **Record Number of** ★

bicultural Public Service Commission scholars studying in China (2019)

recipients for the  
★ **Lee Hsien Loong Award** ★

for Outstanding Bicultural Student in 2018

## Highest Number of Awardees

across the **Prime Minister's Book Prize** (Secondary and Pre-University Categories) 2019

**60**  
President's Scholars to date

## Double Prize Winner

at the **Intel International Science Fair (ISEF) 2018** with a **Grand Award – First Prize** in the Chemistry category and a **Special Award** - Thermo Fischer Award

**64**  
World Championships between 2006 and 2022

## 4<sup>th</sup> consecutive year:

For the four consecutive years (2015-2018), HCI has 1 team/individual representing Singapore at the **Intel International Science Fair (ISEF)** in the USA

## Global Champions

for two consecutive years at the International Artificial Intelligence Fair (IAIF) (2019-2020)

**1<sup>st</sup>** at the **Taiwan International Science Fair (Medicine and Health category)** in 2016 and 2017. HCI also produced the **only Singaporean winners** of the Young Scientist Award in both years

**Championship Record Holder** of Schools National Pole Vault girls' Open Division 2019

HCI students clinched **3 International Championships** at the Future Problem Solving Programme International between 2021 to 2023

**1<sup>st</sup>** at the **International Stockholm Junior Water Prize** in 2018

**Three-time Quadruple Champions** at the Schools National Track and Field Competition 2019, 2017 and 2002

## World-class Facilities

The Hwa Chong campus boasts state-of-the-art facilities to aid in learning beyond the classrooms. The Science Research Centre and Ong Teng Cheong Student Activities and Leadership Training (SALT) Centre provide opportunities for students to engage in cutting-edge research and deepen their leadership experiences.

The Holistic Education Centre and Indoor Sports Complex stand as symbols of the school's commitment to nurturing holistic excellence. The newest addition to Hwa Chong's campus architecture, this building exemplifies our vision in providing each Hwa Chong student with unrivalled opportunities to pursue their passions and develop as compassionate leaders.



Clock Tower



Science Research Centre



Hwa Chong Holistic Education Centre



Indoor Sports Complex



Ong Teng Cheong Student Activities and Leadership Training (SALT) Centre





“Singapore will continue to thrive if everyone exudes the spirit of “自强不息” exemplified by Hwa Chongians.

只要大家像华中儿女一样，自强不息，  
这个国家就能继续繁荣昌盛下去。”

MR LEE HSIEN LOONG  
Prime Minister  
at the Hwa Chong 100<sup>th</sup> Anniversary Gala Dinner



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