



CONTENTS

	Welcome	01
	About the Contest	14
	Your Hosts	34
	The Judges	42
	The Teams	50
	Awards	66
	Local Information	88
	Thank You	94

42nd annual

world
finals



acm

icpc

International Collegiate
Programming Contest

icpc.foundation

WELCOME



Welcome from the President of Peking University



Dear ICPC Participants and Guests,

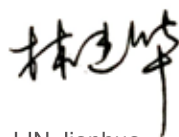
On behalf of Peking University, it is my great pleasure to welcome all of you to the 2018 World Finals of the ACM International Collegiate Programming Contest (ICPC).

Now entering its 42nd year, the ACM-ICPC has established itself as one of the largest and most prestigious competitions in computer science and engineering. Each year, the participation of so many teams from all over the world shows our new generation's sincere interest in the science and art of computing and programming. In this year, 49,935 contestants from 3,098 universities in 111 countries on 6 continents competed at the local and regional levels, with 140 of those teams proceeding to the World Finals. Congratulations should be given to those participants who have made it this far in the competition, along with thanks to all those who have contributed their time, expertise, energy, and support to create this World Finals.

From the 15th to the 20th of April, Peking University will proudly play host to the 2018 ACM ICPC World Finals. The year 2018 is a special year for Peking University because the University will be celebrating the 120th Anniversary of its founding. To commemorate this milestone, Peking University has announced a year-long series of events that are characteristic of the lively intellectual pursuits and exchanges that flourish at Peking University. No doubt, among these events, the ACM-ICPC World Finals will be one of the most spectacular and truly unique.

Allow me to convey my best wishes to all the participants for a very productive, fun, and rewarding gathering, as well as to all the colleagues, families, and friends for a most enjoyable stay in Beijing. I anticipate that there will be some great memories to be had by all!

Sincerely,



LIN Jianhua
President, Peking University
World Finals Director, 2018 ACM-ICPC World Finals

Welcome from the Vice President of Peking University



Dear Participants, Colleagues, and Friends,

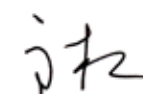
It is a real pleasure and honour for me to welcome you all, here at Peking University, for the 42nd World Finals of the ACM International Collegiate Programming Contest (ICPC).

As one of the oldest, largest and most renowned programming contests in the world, the ACM-ICPC World Finals, from its very inception, has been at the forefront of encouraging interactions and exchanges among top computer science students from around the world. And, for over 40 years, it has contributed significantly to advancing the skills, knowledge, and performance as well as aspirations of students in the computing disciplines, thus helping to develop successive generations of leading computing professionals.

As the host of this year's World Finals, Peking University shares ACM-ICPC's concept of competitive learning and has adopted its overall mission as our own. I am amazed at how much things have advanced in the field of computer science and information technology in China since 2000, when our students first participated in the contest. I believe these advancements can be attributed in large part to the enthusiasm and spirit generated in the hearts of our young people. And I am sure that they ultimately will be very beneficial, not only for academia, but also for the software engineering industry as well as society as a whole.

We are very excited to have you all here in Beijing. I wish all teams much success and inspiration and hope you enjoy this amazing experience. Also, please take a little extra time to enjoy with your families and friends the unique beauty of our city.

With warm regards,



GAO Song
Vice President, Peking University
World Finals Executive Director, 2018 ACM-ICPC World Finals



Welcome from the Director General of CYSC



Dear ICPC World Finals Participants and Guests,

On behalf of Children and Youth Science Center (CYSC) of China Association for Science and Technology (CAST), I would like sincerely and warmly to welcome you to Beijing for the 2018 ICPC World Finals, the fun-filled and world-class event in the world of computing.

CYSC has been committed to engaging the public with science and technology and inspiring innovation in the younger generation through science education programs and public events for more than 40 years. And we are making efforts to offer the greatest opportunities for gaining international experience to both Chinese young scientists and their counterparts overseas.

As the co-host of the 2018 ICPC World Finals, CYSC along with Peking University hopes to provide you with an exciting time and place where a high-integrity contest can be achieved and many long-lasting friendships can be made.

CYSC would also like to recognize and acknowledge the enthusiasm, great efforts, and professional input of volunteers, staff, faculties and officials from ACM, Peking University and other organizations and institutions, which faithfully support the 2018 ICPC World Finals.

Finally, I wish you all a memorable and wonderful stay in Beijing!



LIU Yang

Director General

Children and Youth Science Center (CYSC)

China Association for Science & Technology (CAST)

World Finals Executive Director, 2018 ACM-ICPC World Finals

Welcome from the ICPC Executive Director



Welcome to Beijing!

Welcome to the 2018 ACM-ICPC World Finals hosted by Peking University and CYSC Children and Youth Science Center of CAST! We are delighted that ICPC 2018 Beijing celebrates 120 years of Peking University and science in China.

In particular, I would like to thank 2018 World Finals Director, Professor Jianhua Lin, President of Peking University, and 2018 World Finals Executive Director, Professor Song Gao, Vice President of Peking University, for their extraordinary support. We are thankful for the leadership of CYSC and CAST for recognizing the ICPC as a jewel of applied science.

PKU and ICPC alumni have made ICPC 2018 Beijing possible. Founder Group stepped forward as ICPC Diamond Global Sponsor. Local sponsors with ICPC alumni roots joined in. Thank you for your investment in the next generation.

Our very first global sponsor is JetBrains, the ICPC Programming Tools Global Sponsor. JetBrains is the quintessential ICPC alumni company. They sponsored the regionals worldwide and ICPC 2018 Beijing.

Thanks go to ACM, UPE Honor Society, and Baylor University for your participation.

UPE has participated since 1970. Baylor University has hosted ICPC Headquarters for decades. ACM branding honors ACM members who have contributed to the success of the ICPC in past decades.

The ultimate thanks go to the 49,935 team members and their 4,987 coaches at the 3,098 universities in 111 countries who placed teams in ICPC regional competitions organized into 585 sites. From this crucible, 140 teams have advanced to the 2018 ICPC World Finals here in Beijing.

Congratulations to the 2018 ICPC World Finalists! You have earned the right to compete for global recognition. Your team outperformed 99% of the teams who challenged you to do your best. You are champions all, competing to earn medals – bronze, silver, and gold – and vying to make the “2018 ICPC World Champions” prove their worth! One team will take the trophy home. You all made it precious.

There are many champions in the ICPC universe. There are over 5,000 volunteers who hold competitions worldwide. You will meet some of them. Meet Measures Award recipient Wenxin LI. Wenxin embodies ICPC ideals in spirit, zeal, and competence. As 2018 ICPC Director of Organization, Professor LI was the driving force in drawing together the resources and core team to put the “Beijing” in 2018 ICPC Beijing.

Consider the DeBlasi Award recipients; PKU is a global mainstay of the ICPC. Check out what they have done to create global opportunity while inculcating habits of excellence for a generation. Their contributions are amazing. In particular, I would like to thank Cecca YANG, Mollie LIU, and Guojie LUO for compensating for an old Texan who is better at writing long letters than being truly helpful.

With the combined forces of the 2018 ICPC Beijing volunteers and ICPC Headquarters Staff headed by Lisa Donahoo, we look forward to see what the best ICPC teams ever do in the crucible of the most demanding ICPC Judges ever! Together, we are truly, ICPC Global.

Best Wishes from the ICPC family, the ICPC Foundation, and me!



William B. Poucher, Ph.D., ACM Fellow
ICPC Executive Director



Welcome from the ICPC Deputy Executive Director



It is with great pleasure that I welcome you to the 42nd Annual World Finals of the ACM International Collegiate Programming Contest, hosted by Peking University and CYSC: Children and Youth Science Center of CAST. We are here to celebrate you--the world's best collegiate problem solvers--and the global community supporting you. You are the innovators and problem solvers who will change history. You have persevered through difficult circumstances, mastered the art of teamwork, and dedicated yourselves to the pursuit of excellence. The work you do here will set the standard for future generations. By solving some of the most difficult problems in ICPC World Finals history, you will transform the "impossible" into the conventional. What better place could we be than Beijing to celebrate your excellence and the 120th anniversary of Peking University and science in China?



Beijing is a city steeped in a heritage of excellence: Excellence in ancient architecture, such as the Forbidden City, the Summer Palace, the Temple of Heaven, and the Great Wall of China, resplendent landmarks that have stood the test of time, enduring the elements and inspiring generations the world over with their strength and magnificence. Excellence in community with a clarity of vision and inspiration that we celebrate as we observe the anniversary of science in China. Excellence in preservation of history, seen in the National Museum of China, where priceless relics showcase exquisite skill and ignite the imagination of future generations. Excellence in literature and the arts, which can be seen all around us in this grand city, the cultural capital of China. Excellence in education and problem solving, as shown by the dedication of Peking University in making the 2018 World Finals an experience you'll never forget, and by the presence of you here today, the champions of champions, the greatest problem solvers in the world.

This year's ICPC contests included over 50,000 of the most outstanding students and faculty members from over 3,000 universities in 111 countries. The ICPC community is dedicated to the mission of no barriers to any students in preparing to be great problem solvers. You are a prime example of what is possible through education and competition. Through your actions, you are shining a bright spotlight on yourselves, your families, your coaches, and your universities. You will make history this week, and the ICPC is proud of all you have and will accomplish.

I'd like to offer a personal word of thanks to the ICPC volunteers, particularly those from PKU, who have made planning and executing the 42nd World Finals a labor of love for over a year. Your hospitality is unparalleled. You are the community that allows our amazing 140 teams to discover the possible in themselves.

Best wishes to all of you in the contest!



Michael J. Donahoo
ICPC Deputy Executive Director
Executive Director of the World Finals

Welcome from Founder Group



On behalf of the Founder Group, I would like to extend my warmest welcome to all of you here in Beijing, attending the 42nd Annual ACM International Collegiate Programming Contest (ICPC) World Finals!

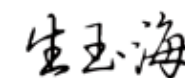
Founder Group was established by Peking University in 1986. With our DNA rooted in independent innovation, Founder Group has been continuously contributing to the development of technology and supporting the industrialization process of the University's research. By gradually diversifying our business structure, we have established a synergistic layout with four core business segments: IT, healthcare, industry finance and an innovation center.

It is our great honor to be the first Chinese company to sponsor the world's largest and most prestigious programming competition. We would like to congratulate all the brightest members from the 140 teams qualifying for this year's championship, who represent the most talented students of all the world, and the coaches who devoted so much time and effort throughout the preparation. It has taken tremendous efforts and extraordinary teamwork to be at this place. I am sure that this contest will help grow a new generation of innovation leaders.

Also, I would like to give my utmost gratitude to the ICPC leadership and all the volunteers. Thank you for your passion, dedication and commitment over the past years to make this week truly unique and unforgettable for all the participants.

Now, all the talented students and leaders have gathered here for the Final events. I hope you will enjoy these wonderful days and stay active in the ICPC family.

Best regards,



SHENG Yuhai
Chairman of the Board
Founder Group



Welcome from JetBrains



It is an honor for me to welcome you, on behalf of JetBrains, to Beijing, for the 42nd Annual ACM ICPC World Finals.

For all the teams that qualified for this year's world championship, it's already a great achievement. There were months of competitions, a lot of hard work, a lot of things to learn and accomplish, even before you get to the World Finals. Congratulations, it's great to see you here!

I wish to specifically thank the coaches and regional contest and site directors who have dedicated so much of their efforts into organizing the contests and coaching the teams. JetBrains supports the education of computer science students and runs various educational programs in cooperation with several universities. We believe students and teachers should all have access to the benefit of cutting-edge technologies, so we offer JetBrains technologies to them free.

The organizers have made the week full of activities. So on that note. I would like to recognize and thank the ICPC leadership and their staff of volunteers and our hosts, Peking University, who have all worked incredibly hard throughout the year to make this week an enjoyable and memorable one for all of you.

Don't miss our booth at Showcase, where we can introduce you to some of our technologies or to Kotlin, our new programming language, which many of you might find yourselves using in the future. We have a Tech Talk the morning of April 16th, where we are delighted to be talking about the technologies which we are developing. Also, be sure to check out the Chill Zone, where you can take part in some brain-training and relaxing activities and win a prize from JetBrains.

Finally, I'd like to wish Peking University a Happy Birthday. 120 years of upholding the pioneer spirit.



Eugene Toporov
VP of Marketing
JetBrains

Welcome from Two Sigma



On behalf of Two Sigma Investments, welcome to the 2018 ACM International Collegiate Programming Contest (ICPC) World Finals in Beijing. This is an exciting moment for all those involved, from contestants to organizers and volunteers, and Two Sigma is proud to continue to support ICPC.

Two Sigma partners with ICPC because we share the belief that programming competitions are an important way to encourage students to follow their passions and ultimately find fulfilling careers. Many of our hundreds of engineers launched their own careers through competitions like ICPC. In fact, we proudly employ a number of ICPC alumni and a current employee is participating in ICPC competition this week. We also run our own coding competitions for employees every year to always maintain that fun, competitive spirit.

We are particularly excited to support the World Finals in Beijing. Two Sigma has deep and meaningful connections in China. A significant portion of our employee base is from China, and we opened our Hong Kong office in 2012 to help expand our work with Chinese investors. China's advances in artificial intelligence and the country's appreciation for systematic, scientific learning make it an ideal partner for Two Sigma.

Leaders from across Two Sigma and recruiters will be on location at the World Finals. We are looking forward to meeting ICPC contestants and encourage those interested in internships or job opportunities to come meet with us.

Congratulations again to all those participating in the events this week. Two Sigma would also like to give special thanks to Baylor University, ACM and the team at ICPC. Good luck!

David Siegel

John Overdeck

David Siegel and John Overdeck
Co-founders
Two Sigma



Welcome from ACM



Welcome to the 42nd Annual World Finals of the ACM International Collegiate Programming Contest (ICPC). ACM is proud to participate in the life of the ICPC community.

I am personally excited to be here in Beijing, especially during the 120th Anniversary of Peking University and science in China. I know the events will be spectacular.

I would like to thank Peking University, the ICPC Foundation, and ICPC Headquarters at Baylor University, for producing and funding the regionals and the 2018 World Finals. Thank you, UPE, for your participation since 1970.

In addition to fostering the personal rewards of making new friends and lifelong memories at ICPC, ACM is happy to provide a tangible reward to all finalists by extending free student memberships. With ACM student membership, you join a global community of like-minded computing professionals and students. On behalf of ACM's nearly 100,000 members, I welcome you to ACM.

I congratulate each of you on reaching the World Finals and wish you every success in your chosen careers. There's never been a more exciting time to be in computing!

Sincerely,



Vicki L. Hanson
ACM President

Welcome from Upsilon Pi Epsilon



On behalf of UPE, I would like to welcome the student teams and their coaches, ICPC support personnel, and guests to Beijing for the 2018 ACM ICPC World Finals. This competition is truly a significant event for all of us in UPE as we are again privileged to recognize the World's best and brightest students in the computing and information disciplines. The ICPC World Finals is always an exciting time for UPE as we strive and continue to expound on the primary mission of the ICPC as "an extra-curricular, competitive programming sport of the universities of the world."

The ICPC will show to the world that we can provide new venues for our student participants so they can be recognized as the best of the best in the globally-competitive world of computing. We wish to encourage everyone to experience as much of the Beijing environment as they possibly can with the knowledge that this city is the academic and cultural center of the world's most populous country.

Finally, I take the opportunity to say xièxie to our hosts and sponsors, especially Peking University, the Children and Youth Science Center of the China Association for Science and Technology, and Baylor University who have all collaborated successfully to ensure the success of the 2018 ICPC World Finals.

Sincerely yours,



Orlando Madrigal Ph.D.
Executive Director of UPE



Welcome from Baylor University's Vice Provost for Academic Affairs and Policy



Dear ICPC participants,

I'm quite pleased to welcome you on behalf of Baylor University to the 42nd Annual ACM International Collegiate Programming Contest World Finals.

We extend our heartiest congratulations to those of you who have qualified, as a result of your dedication to your discipline, to compete as contestants and coaches. We also want to express our deep appreciation to those of you who are contributing your expertise, time, and energy on behalf of the competition by overseeing the many technical and logistical arrangements for the event.

We're privileged to collaborate this year with our host institution, Peking University, and we are deeply indebted to our colleagues at this institution for their hospitality and for all the ways that they are ensuring that this event will be a wonderful experience for all involved. We always value opportunities such as this one to make new acquaintances and relationships as we work with partners in education around the globe.

Baylor is gratified to have been able to serve ICPC for 35 years. This event is distinctly consonant with our institutional mission "to educate men and women for worldwide leadership and service." The skills and aspirations that competitors develop in order to compete at all levels of the ICPC address exactly these goals: students are both inspired to lead as they develop the ability to solve programming challenges, and, even more importantly, to serve as they are challenged to solve the types of problems that can enhance the ability of people throughout the world to flourish.

Please accept our best wishes, to all of you who have gathered here, for a deeply rewarding time of competition and fellowship in Beijing.



James Bennighof
Professor of Music Theory and
Vice Provost for Academic Affairs and Policy
Baylor University

Welcome from Baylor University's Vice Provost for Strategic Initiatives, Collaboration, and Leadership Development



Dear ICPC participants,

It is my pleasure to welcome you on behalf of Baylor University to the 42nd Annual ACM International Collegiate Programming Contest World Finals in Beijing, China.

Congratulations to the 2018 finalists who represent the world's best and brightest students in the science of programming, and our sincere thanks to their coaches for their invaluable mentorship that led to this achievement. We are also grateful for all of those who committed their time and expertise to the regional competitions which included almost 50,000 contestants from 3,098 universities in 111 countries and on six continents. Lastly, we would like to extend our deepest appreciation to those who have planned and prepared for well over a year, as well as to those who will work tirelessly during the competition, to make this ICPC World Finals the best yet.

The ACM ICPC is the oldest, largest, and most prestigious competition in computing science and engineering. It is a privilege to have ICPC headquartered at Baylor University and an honor to join ACM and UPE in support of this commendable organization. In addition, we are grateful to Peking University for hosting this extraordinary event.

We are excited to have the world's brightest students on the World Finalist teams, and our best wishes go out to each of them.

Best wishes!



Lori E. Baker
Vice Provost for Strategic Initiatives, Collaboration,
and Leadership Development
Baylor University



ABOUT THE CONTEST





The 42nd Annual World Finals of the ACM International Collegiate Programming Contest (ICPC)

hosted by Peking University and CYSC
in Beijing, China, April 15-20, 2018

ACM-ICPC

The ACM International Collegiate Programming Contest (ICPC) is the premiere global programming competition conducted by and for the world's universities. The ICPC is affiliated with the ICPC Foundation, enjoys the auspices of ACM, and is headquartered at Baylor University. For over four decades, the ICPC has grown to be a game-changing global competitive educational program that has raised aspirations

and performance of generations of the world's problem solvers in the computing sciences and engineering.

In ICPC competitions, teams of three students represent their university in multiple levels of regional competition. Volunteer coaches prepare their teams with intense training and instruction in algorithms, programming, and teamwork strategy. Several ICPC universities and ICPC volunteers



provide online judging systems to all free of charge. Top teams from regional competition advance to the final round. This year's regional competitions will advance teams to the World Championship round - the 2018 ACM-ICPC World Finals hosted by Peking University and CYSC: Children and Youth Science Center of CAST – which will be conducted on 19 April, 2018 in Beijing, China.

The ICPC traces its roots to a competition held at Texas A&M in 1970 hosted by the Alpha Chapter of the UPE Computer Science Honor Society. The idea quickly gained popularity within the United States and Canada as an innovative initiative to raise the aspirations, performance, and opportunity of the top students in the emerging field of computer science.

The contest evolved into a multi-tier competition with the first Finals held at the ACM Computer Science Conference in 1977. Operating under the auspices of ACM and headquartered at Baylor University since 1989, the contest has expanded into a global network of universities hosting regional competitions that advance teams to the ACM-ICPC World Finals.

In the past 20 years alone, ICPC participation has increased by more than 2000%. Last year, ICPC Regional participation included 49,935 of the finest students and faculty in computing disciplines from 3,098 universities in 111 countries on six continents. A record 53,446 students and 5,411 coaches competed in ICPC and ICPC-assisted competitions last year, setting new records in participation.

The contest fosters creativity, teamwork, and innovation in building new software programs, and enables students to test their ability to perform under pressure. Quite simply, it is the oldest, largest, and most prestigious programming contest in the world.

The annual event is comprised of several levels of competition:

- **Local Contests** – Universities choose teams or



hold local contests to select one or more teams to represent them at the next level of competition. Selection takes place from a field of over 300,000 students in computing disciplines worldwide.

- **Regional Contests** – In last year's regionals, 49,935 contestants from 3,098 universities in 111 countries on six continents competed at over 530 sites to advance to the World Finals.
- **World Finals** (15-20 April, 2018, Beijing, China) – Hosted by Peking University and CYSC: Children and Youth Science Center of CAST, the World Finalist teams will compete for awards, prizes, and bragging rights. These teams represent the best of great universities on six continents - the cream of the crop.

Battle of the Brains

The contest pits teams of three university students against eight or more complex, real-world problems, with a grueling five-hour deadline. Huddled around a single computer, competitors





race against the clock in a battle of logic, strategy, and mental endurance.

Teammates collaborate to rank the difficulty of the problems, deduce the requirements, design test beds, and build software systems that solve the problems under the intense scrutiny of expert judges. For a well-versed computer science student, some of the problems require precision only. Others require a knowledge and understanding of advanced algorithms. Still others are simply too hard to solve – except, of course, for the world’s brightest problem-solvers.

Judging is relentlessly strict. The students are given a problem statement – not a requirements document. They are given an example of test data, but they do not have access to the judges’ test data and acceptance criteria. Each incorrect solution submitted is assessed a time penalty. You don’t want to waste your customer’s time when you are dealing with the supreme court of computing. The team that solves the most problems in the fewest attempts in the least cumulative time is declared the winner.

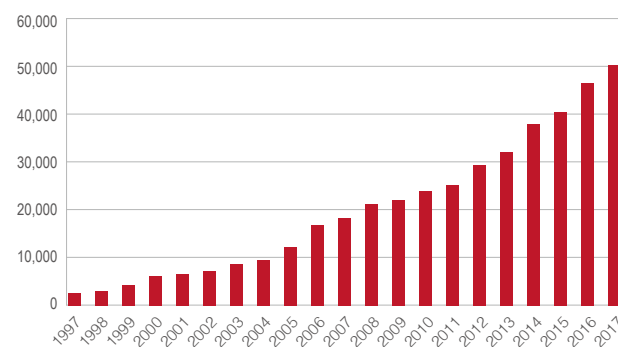
To learn more about the ICPC, please visit icpc.baylor.edu.

For full coverage of the World Finals including social media, photos, video, live coverage, and live scoreboard go to ICPCNews, icpcnews.com.

Contest Growth

ACM, UPE, and Baylor University are thrilled that the contest continues to attract the best and brightest students from around the world. This year 49,935 contestants from 3,098 universities in 111 countries competed in regional competitions at over 530 sites worldwide. The ICPC student participation has increased by 20X in 20 years. For more information on previous contests, and last year’s final standings and problem sets, please see icpc.baylor.edu.

ACM-ICPC Student Participation



World Finals 2018 hosted in Beijing, China – the final round following the 2017 Regionals

Teams from regional contests servicing universities worldwide will advance to the World Finals to be held in Beijing, China, 15-20 April, 2018. The 2018 World Finals is hosted by Peking University and CYSC: Children and Youth Science Center of CAST.

Recent medal winners in order of finish are:

- 2017**
- Gold**
 - St. Petersburg ITMO University
 - University of Warsaw
 - Seoul National University
 - St. Petersburg State University
 - Silver**
 - Moscow Institute of Physics & Technology
 - Tsinghua University
 - Peking University
 - Fudan University
 - Bronze**
 - KAIST
 - Ural Federal University
 - KTH - Royal Institute of Technology
 - The University of Tokyo



- 2016**
- Gold**
 - St. Petersburg State University
 - Shanghai Jiao Tong University
 - Harvard University
 - Moscow Institute of Physics & Technology



- 2015**
- Gold**
 - St. Petersburg National Research University ITMO
 - Moscow State University
 - The University of Tokyo
 - Tsinghua University



- 2014**
- Gold**
 - St. Petersburg State University
 - Moscow State University
 - Peking University
 - Taiwan University



- 2013**
- Gold**
 - St. Petersburg National Research University ITMO
 - Shanghai Jiao Tong University
 - The University of Tokyo
 - Taiwan University



Organizers



About the ICPC Foundation

The ICPC Foundation is a 501(c)(3) organization founded to advance the art and sport of competitive programming for the benefit of society. The foundation is responsible for ICPC sponsorship, fundraising, outreach, and operational matters. The ICPC Executive Director is an officer of the ICPC Foundation. For more information about the ICPC and the ICPC Foundation visit icpc.foundation.



About Peking University

Peking University is a comprehensive and national key university. The campus, known as "Yan Yuan" (the garden of Yan), is situated at Haidian District in the western suburb of Beijing, with a total area of 2,743,532 square metres (or 274 hectares). It stands near to the Yuanmingyuan Garden and the Summer Palace. Peking University is proud of its outstanding faculty, including 53 members of the Chinese Academy of Sciences (CAS), 7 members of the Chinese Academy of Engineering (CAE), and 14 members of the Third World Academy of Sciences (TWAS). The university has effectively combined research on important scientific subjects with the training of personnel with a high level of specialized knowledge and professional skill as demanded by the country's socialist modernization. It strives not only for improvements in teaching and research work, but also for the promotion of interaction and mutual promotion among various disciplines. Thus Peking University has become a center for teaching and research and a university of a new type, embracing diverse branches of learning such as basic and applied sciences, social sciences and the humanities, and sciences of medicine, management, and education. Its aim is to rank among the world's best universities in the future. Learn more at english.pku.edu.cn.



About CYSC

Children & Youth Science Center (CYSC), a non-profit organization affiliated with the China Association for Science and Technology (CAST), was founded in 1978. CYSC is committed to engaging the public with science and technology and inspiring innovation in the young generation through science education programs and public events.



About ACM

ACM, the Association for Computing Machinery, with more than 100,000 members, is the world's largest educational and scientific computing society, uniting computing educators, researchers, professionals, and students to inspire dialogue, share resources, and address the field's challenges. ACM strengthens the computing profession's collective voice through strong leadership, promotion of the highest standards, and recognition of technical excellence. ACM supports the professional growth of its members by providing opportunities for life-long learning, career development, and professional networking. For more information, see acm.org.



Baylor University's Commitment

Baylor University has been the home of the ICPC since the late 1980s, where it has been managed under the direction of Executive Director and Professor, Dr. William B. Poucher, with global enterprise technology development headed by Dr. Jeff Donahoo, Deputy Executive Director. The ICPC contributes to Baylor's global mission to encourage the next generation to develop and apply their problem-solving talents to the challenges that face the world today and the world to come. Chartered by the Republic of Texas, Baylor is the oldest institution of higher learning in the State of Texas. You may find more about Baylor at baylor.edu.



Upsilon Pi Epsilon's Commitment

The Upsilon Pi Epsilon International Computer Science Honor Society recognizes the best students of computer science and engineering in the world. Since its earliest participation, the UPE has provided support and scholarships to the World Finals teams. The UPE boasts the longest continuous relationship to the ICPC, dating back to 1970 with the first event held at Texas A&M by members of the Alpha Chapter of the UPE. For more information about other UPE activities, its chapters, and its membership, click on upe.acm.org.





About Founder Group

Founder Group, a large state-owned enterprise, was established by Peking University in 1986. As its founder, Academician Wang Xuan laid the cornerstone for Founder's legendary development with his invention, the Chinese Character Informatization Technology and Laser Photo Typesetting System.

With independent innovation as its DNA, Founder continuously advanced technology and service innovation, gradually evolving into a diversified business structure maximizing industry synergy, with the core business segments of IT, healthcare, industry finance and an innovation center as pillars.

IT Segment, a leading enterprise in the Chinese IT industry, covers the fields of a Chinese character type library, printing and publishing, wideband communication, Healthcare IT, smart city solutions, etc.

Healthcare Segment, with its medical services, innovation and investment, R&D, manufacturing and sales of medicine preparation as its main businesses, is committed to growing into a leading international comprehensive health enterprise.

The Industry and Finance Integration Segment, including security, insurance and bulk commodity trading, keeps developing its full-industry chain financial product and service system, and exploring an innovative new model to develop industrial and finance integration.

The Innovation Center, focusing on a three-in-one development strategy of 'park construction, platform operation and enterprise incubation', supports the commercialization of scientific and technological achievements.

Deeply rooted in Peking University, Founder Group will keep following its values of serving education and scientific development and committing itself to the practice of the 'industry-university-research cooperation' development model, devoting itself to education and scientific research, serving the country through industrial development and continuing to be a respectable conglomerate.

About JetBrains



JetBrains is the creator of the leading Java IDE, IntelliJ IDEA, and a vendor of world class professional software development tools. Starting from the 2018 World Finals, JetBrains will provide ICPC teams with C++, Java, and Python tools, and their modern programming language Kotlin, to help participants reach new levels of productivity, creativity, and problem-solving. The JetBrains suite of IDEs is used by over half a million students from around the world and is provided free to education to support the next generation of programmers. For more information visit www.jetbrains.com/student.

World Finals Rules for 2018



Mission

The ACM International Collegiate Programming Contest (ICPC) provides college students with opportunities to interact with students from other universities and to sharpen and demonstrate their problem-solving, programming, and teamwork skills. The contest provides a platform for ACM, industry, and academia to encourage and focus public attention on the next generation of computing professionals as they pursue excellence. (from the ICPC Policies and Procedures)

Introduction

The contest is a two-tiered competition among teams of students representing institutions of higher education. Teams first compete in Regional Contests, held around the world from September to December each year. The winning team from each Regional Contest advances to the ACM International Collegiate Programming Contest World Finals, typically held between March and June. Additional high-ranking teams may be invited to the World Finals. Up to 135 teams will be invited. These rules are subject to change.

Organization

The ICPC is organized according to the ICPC Policies and Procedures. The Executive Committee, chaired by the Executive Director, sets the policy and general rules for the conduct of the contest. The Executive Director is solely responsible for interpreting the rules and for ruling on unforeseen situations.

World Finals Site and Dates

The 2018 World Finals will be held in Beijing, China, April 15 - 20, 2018, hosted by Peking University and CYSC: Children and Youth Science Center of CAST. The World Finals and associated events are planned to be on the university campus.

Team Requirements

Teams qualify to advance to the World Finals through Regional Contests. Only one team from a given institution may advance to the World Finals. Contestants and registered student team members will be provided free one-year memberships in





ACM. No team member on the qualifying team may have competed as a contestant in two previous World Finals.

The coach of a qualifying team is the point-of-contact prior to and during World Finals activities. A contestant of a team may not serve as the coach. The coach must complete certification at the Team Certification Web Site within five (5) business days of notification. Qualifying teams will be issued an invitation by email and postal mail (if requested) soon after completing certification.

All team members who are attending the team's institution on visas must have permission to return to their destination after the World Finals. Qualifying teams requiring visas must initiate the process of applying for visas within 10 business days of being issued an invitation to apply for a visa. Teams failing to comply with any of these requirements will be ruled ineligible to compete in the World Finals. Upon completion of these requirements, a qualifying team will be advanced to the World Finals.

A team advancing to the World Finals will be comprised of the same three members as when it qualified. (Reserves are not allowed at the Finals.) In the event that a team member is unwilling, unable, or unfit to compete in the World Finals, the coach must notify the manager in a timely manner. A team member who is unwilling or unfit to compete in the World Finals will be disqualified from further ICPC competitions. The team member may appeal disqualification to the Appeals Committee.

At on-site registration, participants must provide picture ID (passport, driver's license, etc). Contestants must show proof of enrollment at the university during the term of the regional contest at which they qualified. A letter on university stationery with the signature of a university official accompanied by an English translation is sufficient.

Attendance

Finalists must attend all required events from On-Site Registration to Celebration as indicated in the Schedule of Events. Failure to attend any required event will result in disqualification and forfeiture of scholarships and prizes. Coaches must be accessible during On-Site Registration, Dress Rehearsal, the World Finals, and the Closing Ceremony.

Support and Prizes

Each finalist team will be provided with hotel accommodations for the coach and three contestants according to dates published on ICPC Invitations. The hotel accommodations will provide gender privacy. The teams and coaches will be treated to a full schedule of activities including a full course of complimentary food functions.

Transportation to the World Finals is the responsibility of the finalists. The ICPC encourages teams to raise funds for transportation and extracurricular activities from local sources to better strengthen community ties among academia, industry, and government.

Teams finishing in the top four positions will be awarded Gold Medals. Those teams finishing fifth through eighth place will be awarded Silver Medals. Those teams finishing ninth through twelfth place will receive Bronze Medals. Additional Bronze Medals may be awarded to teams solving the same number of problems as the twelfth place team and in a total elapsed time no more than 60 minutes more than the twelfth place team. Such teams will be awarded twelfth place.

The highest scoring team is the World Champion and will receive the World Champion Cup and plaques. The other top eleven teams, the



Africa & Middle East Champions, the Asia East Champions, the Asia Pacific Champions, the Asia West Champions, the Europe Champions, the Latin America Champions, the Northern Eurasia Champions, and the North America Champions will also receive plaques.

The World Champion team will be awarded \$15,000. Each of the other three Gold Medal teams will be awarded \$7,500. Each Silver Medal team will be awarded \$6,000. Each Bronze Medal team will be awarded \$3,000. Courtesy of the UPE Computer Science Honor Society, the First Solution Award will be \$1,500. For the other solved problems, The First to Solve Award will be \$1,200.

Conduct of the Finals

Ten or more problems have been posed in recent World Finals.

Problems will be posed in English. During the





contest, all communications from contest officials to contestants will be in English. Each team may identify an interpreter for translating questions posed by contestants to contest officials. Contestants may bring electronic natural language translators provided that they do not support math operations.

Solutions to problems submitted for judging are called runs. Each run is judged as accepted or rejected, and the team is notified of the results. Rejected runs will be marked as follows:

- run-time error
- time-limit exceeded
- wrong answer

Notification of accepted runs may be suspended at the appropriate time to keep the final results secret. A general announcement to that effect will be made during the contest. Notification of rejected runs will continue until the end of the contest.

A contestant may submit a claim of ambiguity or error in a problem statement by submitting a clarification request. If the Judges agree that an ambiguity or error exists, a clarification will be

issued to all contestants.

While the contest is scheduled to last five hours, the Finals Director has the authority to lengthen the contest in the event of unforeseen difficulties. Should the Contest duration be altered, every attempt will be made to notify contestants in a timely and uniform manner.

Scoring of the Finals

The World Finals Judges are solely responsible for determining the correctness of submitted runs. In consultation with the World Finals Judges, the Director of Judging is responsible for determining the winners of the World Finals. They are empowered to adjust for or adjudicate unforeseen events and conditions. Their decisions are final.

Teams are ranked according to the most problems solved. Teams placing in the first twelve places who solve the same number of problems are ranked first by least total time and, if need be, by the earliest time of submittal of the last accepted run.

The total time is the sum of the time consumed

for each problem solved. The time consumed for a solved problem is the time elapsed from the beginning of the contest to the submittal of the first accepted run plus 20 penalty minutes for every previously rejected run for that problem. There is no time consumed for a problem that is not solved.

Computing Environment

The World Finals programming language tools include Java, C, C++, Kotlin and Python. See the Programming Environment Web Site for detailed configuration information. Prior to the World Finals, the judges will have solved all problems in Java and C++.

Each team will be provided with a single computer and a calculator. All teams will have equivalent computing equipment. Contestants may not bring any printed materials or machine-readable versions of software or data to the Contest Area. Contestants may not bring their own computers, computer terminals, calculators, or other electronic devices to the Contest Area.

Each team member may bring an unannotated

natural language printed dictionary. On-line reference materials will be made available as described in the Reference Materials section of the Programming Environment Web Site. Each team will be permitted three copies of the Team Reference Document described in the On-Site Registration Instructions.

Contestant Conduct

DO NOT TOUCH ANYTHING at the team workstations until so directed by the Finals Director.

Contestants are not to converse with anyone except members of their team and personnel designated by the Finals Director. Systems support staff may advise contestants on system-related problems such as explaining system error messages.

A team may be disqualified by the Finals Director for any activity that jeopardizes the World Finals such as dislodging extension cords, unauthorized modification of contest materials, or distracting behavior.



Activities



Team Registration

All teams and coaches must present themselves for registration at the time selected by appointment. Registration is provided by UPE and Baylor University, whose representatives certify that team paperwork and Team Reference Documents comply with ICPC rules.



Participant Welcome

A dinner is hosted to welcome all registered attendees.



ChillZone

Sponsored by JetBrains and Two Sigma, an area where contestants can relax, play games, engage with other teams, and interact with demos featuring varied, innovative technologies.



PKU/ICPC Showcase

Make connections with companies sponsoring the World Finals. Learn about their products, innovations, ICPC involvement, and potential career opportunities.



Tech Trek

Creative innovators lead the industry in developing interesting and important technology for the world's needs. This event includes presentations on some fascinating new projects from JetBrains, ICPC Global Programming Tools Sponsor. Attendance is required for teams and coaches.



Great Wall Excursion

Visit Juyong Pass [built 770 – 476 BC], the final checkpoint before the direct road to Beijing, and one of its most important defenses. Two high watchtowers built at each gate [Nan (south) Guan (gate) and Bei (north) Guan] provide the best views of the pass. Juyongguan has ramped wheelchair access as well as steeper climbs for those looking for something more challenging.



Opening Ceremony

This required event recognizes some of the hundreds of volunteers who have worked to make this year's World Finals a reality and represents the first public introduction of this year's World Finals contestants – the best of the best collegiate programmers.



Musicode - A Welcome Concert

The Central Conservatory of Music and Peking University Chinese Music Institute (CMI) collaborate to present *Musicode*, a fascinating dialogue between traditional Chinese music and modern computer science.



The World Finals Dress Rehearsal

A full-scale rehearsal and practice of the World Finals.



UPE Dinner

This event features dinner and an evening of fun and interaction.



The World Finals

The time has come. Teams from six continents battle in a five-hour competition to see who takes home this year's prizes, accolades, and bragging rights as the top collegiate programmers in the world.



Closing Ceremony

This required event will be held to crown the ACM-ICPC World Champions and medal winners!



The World Finals Celebration

The location and activities are always exciting. The end result is always a phenomenally fun time for contestants and volunteers alike. This event is sponsored by Founder Group.



Juyongguan Great Wall

Juyong Pass is situated in a valley surrounded by mountains on two sides; it has long been a military stronghold. The pass is roughly circular with a perimeter about 4,530 yards (4,142 meters) long. The widest point of the wall is 18 yards (16.7 meters), while the narrowest measures only 1.3 yards (1.2 meters).

It consists of two gates, one in the south and the other in the north, respectively called Nan (south) Guan (gate) and Bei (north) Guan. Two high watchtowers were built at each gate. They are now the best view points to see the full picture of the

pass. No. 13 Beacon Tower at the west section is the highest point of the scenic area. You can have a bird's-eye-view of the pass there, too.

There is a high platform called Cloud Platform in the center of the pass. It is a white marble construction. There used to be buildings on top of the platform, but they were destroyed by fire and only the marble base remains. An arched doorway penetrates the platform. On the walls of the doorway, statues of four heavenly gods and sutra scriptures were carved.

What's the story?

It was first built in the Spring and Autumn Period (770 – 476 BC) and Warring States Period (476 – 221 BC) by Yan State as a fortification, and was linked to the Great Wall of China in the Southern and Northern Dynasties (386 – 589).

While fortifications of sorts had been stationed at Juyongguan for centuries before, after overthrowing the Mongol Yuan dynasty in 1368, the first Ming emperor Zhu Yuanzhang wanted to make sure they couldn't get back in, and ordered the construction of a stronger wall here. As the final checkpoint before the direct road to the

capital, it would serve as one of its most important defences.

Why choose this section?

Juyong Pass ranks as the first of the three impregnable passes along the Great Wall. Besides being the closest to the city, Juyongguan also has ramped wheelchair access to some of its milder gradients, although it has steeper climbs for those looking for something more challenging, with its highest point reaching 350 meters. The section also circles round the Guangou valley on a four-kilometer loop, so you won't need to retrace your steps.



承 · Musicode - A Welcome Concert

In collaboration with China's finest musicians from the Central Conservatory of Music, Peking University Chinese Music Institute (CMI) will present participants of the 42nd ACM-ICPC World Finals with a concert titled *Musicode* on the 16th of April, at the Peking University Centennial Hall.

In this fascinating dialogue between traditional Chinese music and modern computer science, *Musicode* aims to inspire new possibilities and prospects in music making and interdisciplinary research. In commemoration of Peking University's 120th anniversary, students from PKU will collaborate with China's most established musicians to put up a combined performance



which will not only be a display of the exuberance and vigor of the youth of today, but also a demonstration of the vitality of the Chinese Traditional Arts scene. This concert will not merely be a reflection of the past and its achievements, but will also serve to motivate and embolden the young generation to embark on a new journey worthy of their era.

PROGRAM

1. The Fishermen's Triumphant Song- Percussion Medley

Arranged by PKUCMI
Performed by PKUCMI Chinese Orchestra

2. Galloping Warhorses

Composed by Yaoxing CHEN
Performed by Central Conservatory of Music Bowed Strings Band

3. Picking Red Water Chestnuts

Arranged by Chunjia YANG
Performed by Central Conservatory of Music Bowed Strings Band

4. Dragon Boat

Composed by Zijing CHEN
Performed by Central Conservatory of Music Plucked Strings Band

5. Journey Beyond Xikou - Green Willow

Arranged by Yuankai BAO

Performed by Central Conservatory of Music Plucked Strings Band

6. Garden After Rain

Composed by Wen-Cheng SU and Tsui-Ping CHENG
Liuqin Solo by Mingxuan WANG
Performed by PKUCMI Chinese Orchestra

7. Spring

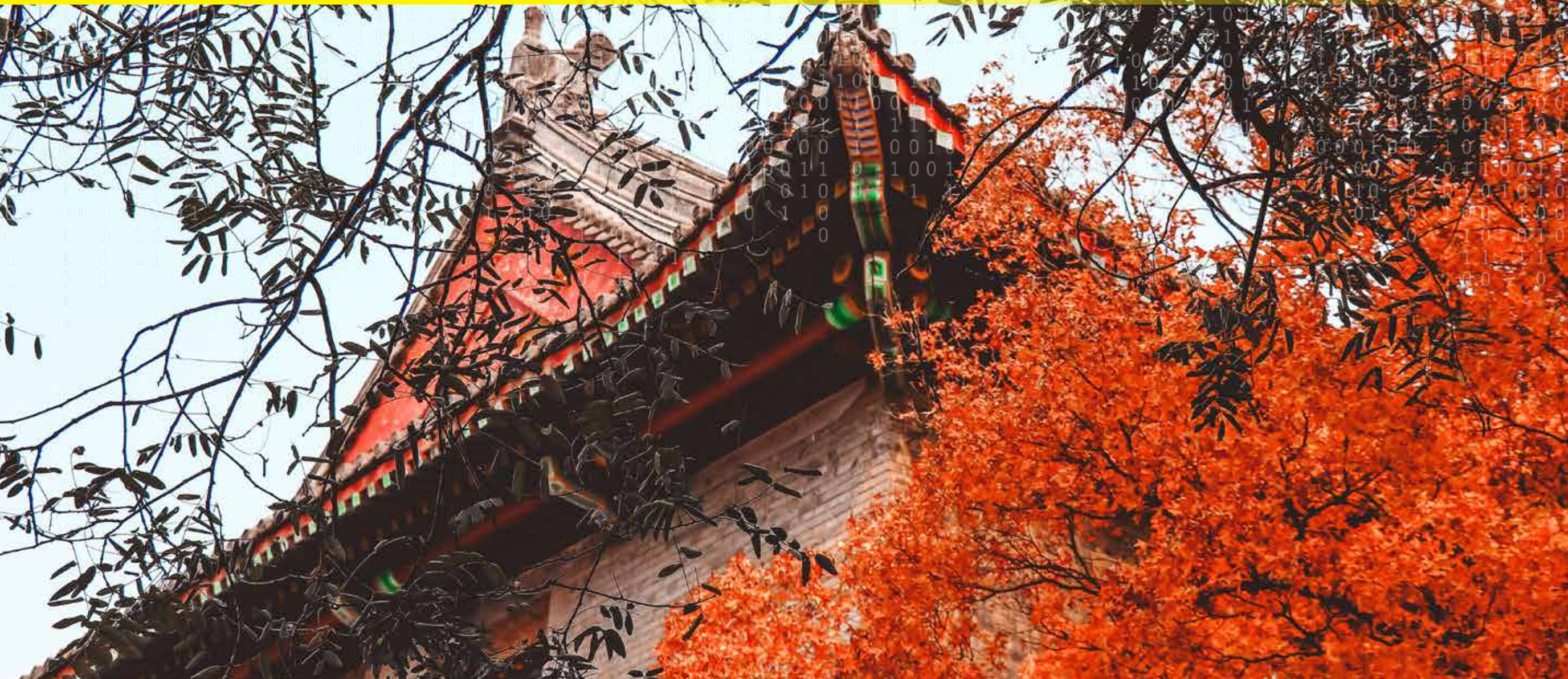
Composed by Leung-fai LO
Performed by PKUCMI Chinese Orchestra

8. Winter

Composed by Leung-fai LO
Performed by PKUCMI Chinese Orchestra



YOUR HOSTS





Peking University

Founded in 1898, Peking University was originally known as the Imperial University of Peking. It was the first national university covering comprehensive disciplines in China, and has been a leading institution of higher education in China since its establishment. It also served as the highest administration for education at the beginning of its founding.

In 1912, the university adopted its present name. At the end of the 20th century, the Chinese government put Peking University at the top of its agenda for promoting higher education, with

the aim to build a world-class university in the 21st Century. After merging with Beijing Medical University in 2000, Peking University once again was strengthened in its disciplinary structure.

Peking University has continually played the essential role of pioneers in the course of China's modernization. The university's traditional emphasis on patriotism, progress, democracy, and science, together with its educational standards of diligence, precision, factualism, and innovation, have been passed down from generation to generation.

The School of Electronics Engineering and Computer Science (EECS) is the largest school at Peking University with more than 390 faculty and staff members, 1300 undergraduate students, as well as 1300 Master/Ph.D. students.

We are proud of our world-class faculty who conduct outstanding teaching and cutting-edge research. As the team grows, we have seen an increasing number of not only leading senior scholars who have been renowned in their respective fields, but also young scholars who have shown great academic potential, specifically including 4 members of the Chinese Academy of Sciences (CAS), 2 members of the Chinese Academy of Engineering (CAE), 7 Fellows of the Institute of Electrical and Electronics Engineers (IEEE).

Nurturing leading professionals with an international outlook is one of our top goals. The School of EECS offers undergraduate/postgraduate programs in the areas of Computer Science and Technology, Electronics Science and Technology, Microelectronics, and Machine Intelligence. We give students flexibility in choosing their majors, and provide opportunities

for custom-tailored education. According to the 2017 QS World University Rankings by Subject, we ranked 16th and 22nd at "Computer Science and Information Systems" and "Electrical and Electronic Engineering", respectively.

The School of EECS has undertaken extensive research responsibilities with respect to basic research, as well as high-tech development and transformation. Since 2002, EECS has been in charge of more than 5300 research projects at both national and provincial levels. The School has received a total of about 3 billion RMB research funding. This not only helps to drive further progress within the School of EECS itself, but also helps to further foster interdisciplinary cooperation between EECS and other academic and/or industrial organizations, domestic and overseas.

During the past 15 years, both faculty and students at the School of EECS have made remarkable achievements which have profound influence worldwide. The School will continue its efforts to nurture young talents, to pursue excellence in education, and to take the lead in research by exploring new frontiers.





Beijing is a glamorous city with a long history of more than 2,900 years. As China's political, cultural and educational center, Beijing is a rapidly developing metropolis longing for various exchanges with other countries in this increasingly globalizing world.

Beijing is a hub of Chinese civilization and culture and boasts 7300 cultural relics and historic sites and more than 200 scenic spots. Traversing for several kilometers on lofty and rugged mountain ranges, the Great Wall is the only man-made structure that can be seen in the outer space. Noted for its undisturbed tranquility, the Summer Palace is a classic representative of royal gardens and summer retreats. Situated at the city's heart, the Forbidden City is a fine embodiment of China's long history and vibrant culture. Beijing is also well-known for its labyrinthine hutongs and square

courtyards, which have become an integral part of this city after hundreds of years. This city has become a cultural monument with great vitality, encompassing great past glories and modern progress in economics, social systems, science and technology. Beijing also takes great pride in its cultural heritage and environment. Through adopting a strategy of sustainable development, this ancient city will display a brand-new image to the world.

Traditional Festivals

Spring Festival is the first day of the Chinese lunar new year. It is the most important, most featured and grandest traditional festival, and it has a history of over 4000 years. People eat dumplings, set off fireworks and pay visits to relatives and friends during Spring Festival. Due to the difference between the Chinese lunar year and the

common calendar year, Spring Festival normally takes place in January or February.

Tomb Sweeping day is one of the most important sacrifice days, and it is the day when people sweep tombs and offer sacrifices to ancestors. Tomb Sweeping day is normally in early April. In this season, spring returns and the world is full of vigor; therefore people also go out to enjoy the beautiful scenery on Tomb Sweeping day.

Dragon Boat Festival is on the fifth day of the fifth month of the Chinese lunar year (in late June of the calendar year), and it has a history of over 2000 years. People eat rice dumplings and hold dragon-boat racing on this day.

Mid-autumn Festival is on the fifteenth day of the eighth month of the Chinese lunar year, and it is the second grandest traditional festival in China. People eat moon cakes and enjoy the beauty of

the full moon during the Mid-autumn Festival.

Offering Food and Other Things

Chinese people are not accustomed to opening gifts on the spot when they receive gifts. Usually they would accept the gift and say "thank you" politely, but it does not mean that he/she does not love your gift.

In China, people would insist on the guest taking more food several times and then make sure that the guest indeed has had enough. This is different from other Western cultures.

Appellation Etiquette

Appellation is the way of addressing the targeted person politely. In Chinese schools, "laoshi" is a polite appellation. Professors and administrative officers are all addressed as "XX laoshi", for instance, "Li laoshi", "Sun laoshi", etc. It is not polite to address people with their full name.





Host a Dinner vs. Go Dutch

Chinese people are warmhearted and hospitable. They love to invite their friends to dinner in restaurants. As a matter of fact, what people care about is not the delicious food but the fun of friends gathering together.

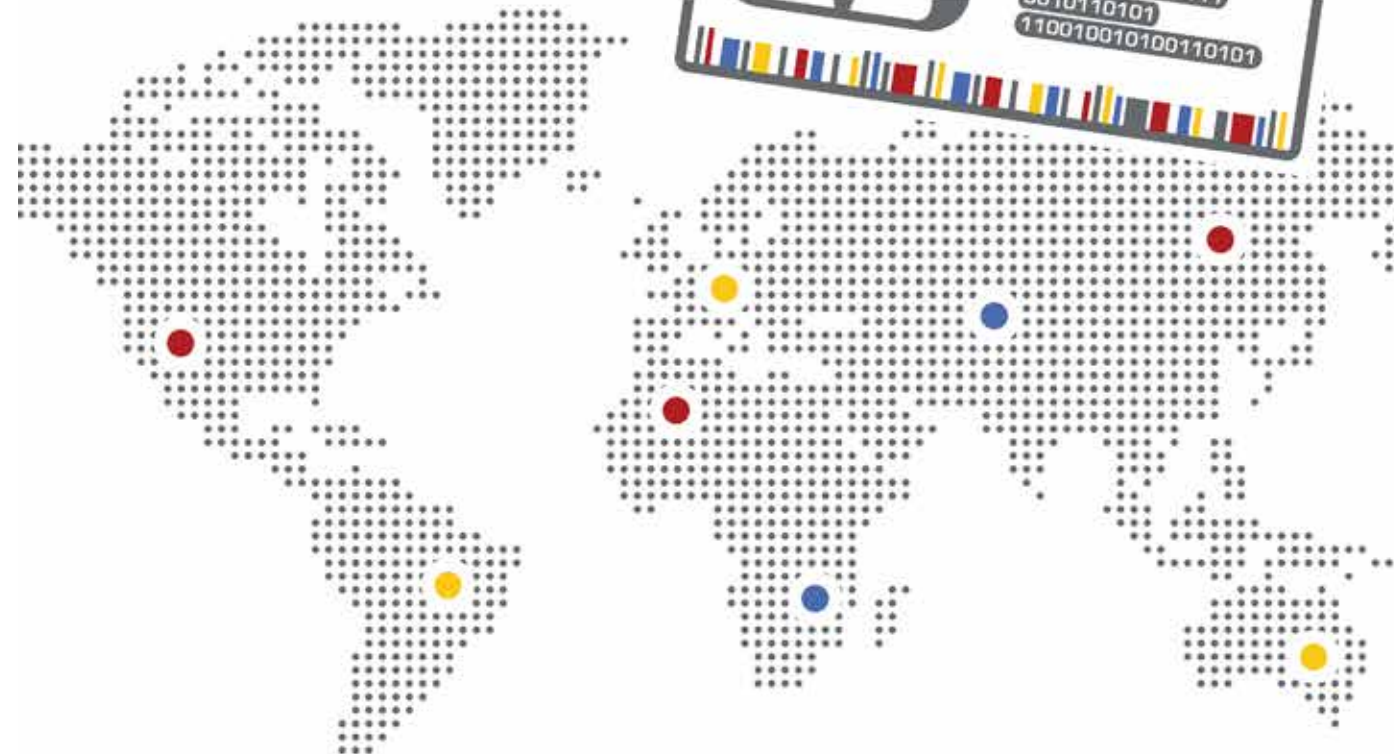
To host a dinner is another way of establishing and deepening friendship. People take turns to host dinners. It is considered impolite to be always invited to dinner and never host a dinner. Sometimes it happens in restaurants that people fall over each other to pay the bill. They seem to be fighting, but that is not a real fight.

In China, to go Dutch is not popular. Young people accept such a way of paying a bill. But if you invite Chinese friends to dinner, you'd better confirm with your friends beforehand whether it is your treat or you will go Dutch with each other.

Show the world your ICPCID!

ICPCID is an official record of your verified participation as an ACM-ICPC contestant, coach, or volunteer. By default, nobody can see your ICPCID. Activating your ICPCID will allow everybody to see your ICPC history at icpc.baylor.edu. Once activated, you can share your ICPCID URL to show your accomplishments.

Distinguish yourself.

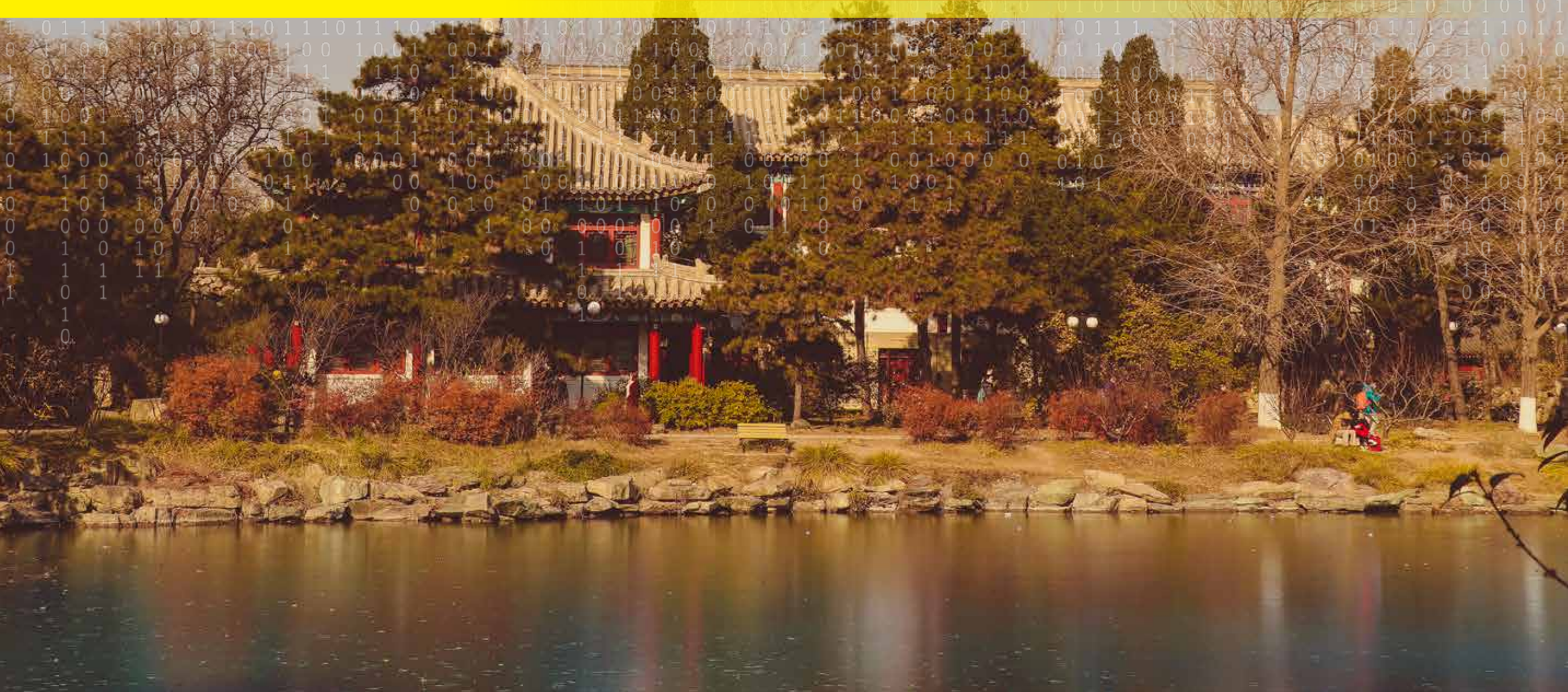


Activate your ICPCID today!

Visit bit.ly/start_ICPCID



THE JUDGES





Jo Perry

NORTH CAROLINA STATE UNIVERSITY

Director of Judging since 2010

World Finals judge since 1987

Our aim as judges is to challenge you for 5 straight hours. We hope you will not only excel but also delight in that challenge. The best of luck and the best of times to all of you!



Babak Behsaz

GOOGLE

World Finals judge since 2013

I hope you enjoy the contest and problem set. Also, I wish for you to realize your potential and use this experience to achieve future success. Best of luck!



John Bonomo

WESTMINSTER COLLEGE

World Finals Chief Judge since 2010

World Finals judge since 2002

Enjoy yourself! Think about it: someone else has paid for you to travel around the world in order for you to do something you love. Opportunities like this don't happen often, so make the most of it!



Michael Goldwasser

SAINT LOUIS UNIVERSITY

World Finals judge since 2015

As for wishes I have for the contestants: First and foremost, my hope is that contestants celebrate their accomplishments in getting this far and have a wonderful experience. Of course, I also hope they find success in solving our problems!



Per Austrin

KTH ROYAL INSTITUTE OF TECHNOLOGY,
STOCKHOLM

World Finals judge since 2008

Here is a small hint about the problem set: hvs qcbhsgh
dfcpzsag ofs bchog sogm og hwwg Qosgof qwdvsf.



Walter Guttman

UNIVERSITY OF CANTERBURY

World Finals judge since 2011

Every problem in our set
has an answer, you can bet.
Code it quick if you can find it,
else move on and never mind it.





Greg Hamerly
 BAYLOR UNIVERSITY
World Finals judge since 2014

Congratulations on making it to the ICPC World Finals. Being here is a great opportunity for you not only to show your skills and have fun, but also to meet people and grow. Good luck in the competition!



Shahriar Manzoor
 SOUTHEAST UNIVERSITY, CODEMARSHAL,
 BAPS, BACS
World Finals judge since 2003

Man became selfish when he was convinced by the society to believe that he can only create copies biologically and not by disseminating knowledge. You are contestants today, but your ultimate job is to disseminate your knowledge to the upcoming generation, because in that way you can create your copies fast.



Martin Kacer
 CZECH TECHNICAL UNIVERSITY
World Finals judge since 2003

Have fun and enjoy this week as if it was one of the best in your life.
 Wait, it really is one of the best in your life!
 I wish you a good luck, not only for now, but also for the future.



Deon Nicholas
 FORETHOUGHT.AI
First Time World Finals Judge

"Every Day is Contest Day". And I mean it. Most of you have been practicing daily to be where you are today. You deserve it. Don't be nervous, and don't worry about the scoreboard. Have fun, stay focused, and do what you do best!



Derek Kisman
 LASERLIKE
World Finals judge since 2004

As for "advice," I'd say "Never stop honing your skills!"



Dick Rinewalt
 TEXAS CHRISTIAN UNIVERSITY
World Finals judge since 1982

Meet people. Make friends. Have fun.





Bob Roos

RETIRED FROM ALLEGHENY COLLEGE

World Finals judge 1996-2012 & 2017

Meet and talk to as many people as you can!
 Take lots of photos! Tweet, post, and blog about your experiences!
 Be proud - after all, you worked hard to get here.
 But also be humble. Lots of people helped you--your teachers, your coaches, your teammates, and many, many others.
 Good luck in the contest, but remember that you're already a winner!



Stan Wileman

UNIVERSITY OF NEBRASKA - OMAHA

World Finals judge since 1979

I've been involved with the contest in many roles since the mid 1970s. And while the machines have certainly gotten faster since the punched card days, the problems have gotten much harder. It's ALWAYS the case that judges know the fastest (to date) algorithms to solve problems, and brute force is almost NEVER the best way (although...) . Compilers can optimize your code only so much. Wouldn't it be nice if they could choose better algorithms for us?



Matthias Ruhl

ACCOMPANY

World Finals judge since 1997

Good luck in the contest! Don't let the code bugs bite.
 And the best wishes for your future careers! This is an exciting time to be in computer science - learn as much as you can, build something great and change the world!



Jakub Wojtaszczyk

GOOGLE

World Finals judge since 2011

I wish for every one of you that this is only a start to achieving great things. Computer science is cool, because once you write a program, it can change the lives of billions of people without any extra work. So, a software engineer can change the world similarly to great inventors - by improving the lives of people they will never meet and never know. Skill at creating software is something that should be cherished and used - and I hope you all manage to make good use of it.



THE TEAMS



Africa and the Middle East

Al Akhawayn University

alakhawayn.ma

Team name: The Losers: Pinky & The Brain
 Mohammed Khalil Ait Brahim
 Ahmed Amine Boustani
 Achraf Mamdouh
Coach: Mohamed Riduan Abid

Cairo University - Faculty of Computers and Information

fci.cu.edu.eg

Team name: 1e-15
 Seif Gamal
 Khaled Hamed
 Amr Magdy
Coach: Mohammad Yasser

Al-Baath University

albaath-univ.edu.sy

Team name: NoNameFoundException
 Malek Hakki
 Hussain Hussain
 Marsil Zakour
Coach: Majd Akleh

Damascus University

damascusuniversity.edu.sy

Team name: Y!
 Ahmad Gafer
 Mohammad Shahhoud
 Said Sryheni
Coach: Ghassan Khazaal

Al-Baath University

albaath-univ.edu.sy

Team name: O(n)
 Daniar Jarrous
 Maala Mhrez
 Mahdi Qanas
Coach: Ghadeer Al Hasan

Faculty of Computer and Information Sciences, Ain Shams University

cis.shams.edu.eg

Team name: Triple Dark Music
 Mohamed Anany
 Hossam Eissa
 Mohamed Yosri Yehia Ahmed
Coach: Nour ElRashidy

Alexandria University - Faculty of Engineering

eng.alexu.edu.eg

Team name: New Folder (1)
 Essam AlNaggar
 Khaled Ali
 Amr Mahmoud
Coach: Omar Mohamed Eissa

Faculty of Engineering, Cairo University

eng.cu.edu.eg

Team name: WF Please
 Ahmed Gamal
 Omar Hashim
 Mina Magdy
Coach: Mohamed Abd El-Wahab

Arab Academy for Science and Technology (Alexandria)

aast.edu

Team name: The Old Guard
 Walid Ghallab
 Osama Hatem Sharafeldin
 Abdelrahman Ramadan
Coach: Mohamed Abd El-Wahab

German University in Cairo

met.guc.edu.eg

Team name: Legend Mode Activated
 Ahmad Elsagheer
 Ahmed Kamel
 Omar Morsi
Coach: Slim Abdennadher

Higher Institute for Applied Sciences and Technology

hiast.edu.sy

Team name: Saiyan Squad
 Farouk Hjabo
 Nemane Jessri
 Anas Kastantin
Coach: Nizar Zarka

Tishreen University

tishreen.edu.sy

Team name: NCD#1
 Zeinal Abeedin Ali
 Fudail Hasan
 Anas Khaddour
Coach: Hussain Kara Fallah

Princess Sumaya University for Technology

psut.edu.jo

Team name: Aurora (PSUT)
 Motasem AL-Kayed
 Mohammed Abu Aboud
 Hamza Zagha
Coach: Sufyan Almajali

University of Pretoria

up.ac.za

Team name: AwesomeSource
 Jaco Plooy
 Brent Walsh
 Ulrik de Muelenaere
Coach: Frank Christoph Stallmann

Asia East

Beihang University

ev.buaa.edu.cn

Team name: Three Investigators
 Xin Huang
 Ziyuan Liu
 Jingzhe Tang
Coach: You Song

Fudan University

fudan.edu.cn

Team name: Wood Cube
 Xi Gao
 Zhihao Ma
 Dongjian Tang
Coach: Weiwei Sun

Beijing Normal University

bnu.edu.cn

Team name: MilkCandy
 Wenqi Sun
 Ke Sun
 Yaohui Zeng
Coach: Su Feng

Fuzhou University

fzu.edu.cn

Team name: Pachirisu
 Mingqin Chen
 Haohui Zheng
 Peng Zou
Coach: Yanggeng Fu

Beijing University of Posts and Telecommunications

bupt.edu.cn

Team name: CodeMao_Gregtech
 Ran Dong
 HeXiang Pan
 KaiChen Zhang
Coach: Ya Yang

Guangdong University of Technology

gdut.edu.cn

Team name: Travel_poorly
 Xuanzhu Lin
 Mingkai Tang
 Fuqiang Yang
Coach: Xuandong Sun



Asia Pacific

Hangzhou Dianzi University
hdu.edu.cn
Team name: HDU-AcmKeHaoWanLe

Songyang CHEN

Kaichen Wang

Jingshi ZHENG

Coach: Chunying LIU

Tsinghua University
tsinghua.edu.cn
Team name: jssssssssshiverb

Kefan Dong

Zhizhou Ren

Xiaoyao Zou

Coach: Xiaojun Wu

Huazhong University of Science & Technology
hust.edu.cn
Team name: Nebula

Hao Fan

Lingyun Liao

Wenhao Song

Coach: Kun He

University of Electronic Science and Technology of China
uestc.edu.cn
Team name: UESTC_Maglev

Xu Hao

Ke Shen

Yutong Yang

Coach: Xiaoping Wang

Northwestern Polytechnical University
nwpu.edu.cn
Team name: NPU_Hawaii_Guitar

Jiachen Dong

Hongpeng Li

Jia Zhao

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Coach: Ali Orooji

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Team name: UT 1: Vertex Cover

Oliver-Matis Lill

Oliver Nisumaa

Andres Unt

Coach: Yauhen Yakimenka

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Team name: Ural FU: Kek

Kirill Borozdin

Vladimir Leskov

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Coach: Oleg Merkurev

Vilnius University

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Team name: VU #1

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AWARDS

The 2018 ICPC Foundation
**Outstanding International
 Contribution Award**

Presented to



北京大学
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Song GAO Wendong GONG Suiyan FU Hongwei XIA Xinxiang ZHANG Bei ZHANG Shengqun ZHANG Ru HUANG



Zhongpeng WEI Wenxin LI Yun JIANG Xiaoliang XIONG Hong LEI Yongli CHEN Lin ZHANG Yuning LI



Ning LI Jie LI Rong LI Shouan LIU Zhong LI Zhiyue FENG Hao MA

*for serving as a principal partner and ICPC global leading academic institution
 for drawing together community, industry, and academia to secure and assure the success of the 2018 ICPC
 World Finals as the premier computing science event celebrating the 120th anniversary of Peking University
 and science in China.*

The ICPC Foundation Outstanding International Service Award
 is presented to an individual or group that has played an instrumental role
 in the success in advancing the art and science of competitive programming
 through support of the International Collegiate Programming Contest.

The 2018 ICPC Foundation
**Outstanding International
 Contribution Award**

Presented to



Children and Youth Science Center of CAST



Yang LIU



Zhenwei ZHANG



Jian YAO



Cheng QIAN

*for serving as a principal partner and advocate for the 2018 ICPC World Finals
 by drawing together community, industry, and academia
 to secure the resources and support that will open doors of opportunity for students in science,
 mathematics and technology, in China and globally.*

The ICPC Foundation Outstanding International Service Award
 is presented to an individual or group that has played an instrumental role
 in the success in advancing the art and science of competitive programming through support of
 the International Collegiate Programming Contest.



The 2018 ICPC Foundation presents the
**First Alumni
 Sponsor Award**

Presented to



Mr. Rui GUO

**Peking University
 Class of 1990**

for stepping forward as an individual to become the first alumni sponsor of the 2018 World Finals hosted by Peking University on this the 120th anniversary of Peking University and science in China.

The ICPC Foundation ICPC Alumni Award is presented to an individual or group that has played an instrumental role in the success of the International Collegiate Programming Contest World Finals and strengthening global commitment to develop consummate problem solvers among the next generation of university graduates.

The 2018 ICPC Foundation
**Mark Measures
 Distinguished Service Award**

Presented to



**Wenxin LI
 Peking University**

for ICPC leadership in Asia since 2001, organizing regional competitions; championing the art and science of competitive programming among universities in China; engaging community and leadership locally, within the city of Peking, and throughout China, in support of ICPC programs; and for her global leadership and indefatigable devotion to producing the 2018 ICPC World Finals as a premier event of the 120th anniversary of Peking University and science in China.

*In service and spirit, Wenxin LI embodies the ideals of the ICPC.
 She serves as the 2018 World Finals Director.*

The Mark Measures Distinguished Service Award Is presented annually to a volunteer who has played an instrumental role in the success of the International Collegiate Programming Contest for fifteen or more years.



The 2018 ICPC Foundation
Joseph S. DeBlasi
Outstanding Contribution Award

Presented to

The ICPC Organizational Team at Peking University



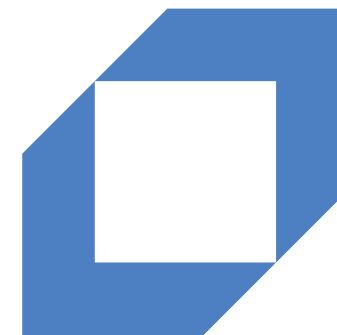
for building PKU's globally recognized academic program in competitive programming program; for providing training and educational services to the global community and uplift for gifted students prior to college, for organizing many Asia regional contests; and for organizing the 2018 ICPC World Finals as a premier event of the 120th anniversary of Peking University and science in China.

The Joseph S. DeBlasi Outstanding Contribution Award is presented annually to a person or group who has played an instrumental role in the success of the ICPC for five or more years.

The 2018 ICPC Foundation
Global Service Award

Presented to

2018 ICPC GLOBAL SPONSOR
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*for their unparalleled generosity and commitment
 to encourage youth to pursue excellence in problem solving;
 and as ICPC Global Sponsor, assuring the success of the 2018 ICPC World Finals
 as the premier computing science event celebrating
 the 120th anniversary of Peking University and science in China.*

The ICPC Foundation Global Service Award is presented
 to an individual or group
 that has played an instrumental role in the success
 of the International Collegiate Programming Contest World Finals.



The 2018 ICPC Foundation
Global Sponsor Award

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JetBrains

*for serving as ICPC global programming tools sponsor;
 for providing outstanding programming tools for the ICPC global community;
 for sponsoring the 2017 regional contests;
 for their generous support for the 2018 World Finals;
 and for their generosity to the ICPC community.*

The ICPC Foundation Global Sponsor Award is presented for global contributions to the success of the International Collegiate Programming Contest global community in keeping with the mission of the ICPC Foundation to advance the art and the sport of competitive programming.

The 2018 ICPC Foundation
Gold Medal Local Partner Award

Presented to



SenseTime

for stepping forward to assist and recognize PKU as a leading ICPC global university and source of extraordinary talent by serving as a Gold Medal Local Partner for the 2018 World Finals hosted by Peking University on this the 120th anniversary of Peking University and science in China.

The ICPC Foundation ICPC Global Medal Local Partner Award is presented to a group, institution, or company that has played an instrumental role in the success of one International Collegiate Programming Contest World Finals and thereby strengthening global commitment to develop consummate problem solvers among the next generation of university graduates.



The 2018 ICPC Foundation
Gold Medal Local Partner Award

Presented to



Kuaishou Technology

for stepping forward to assist and recognize PKU as a leading ICPC global university and source of extraordinary talent by serving as a Gold Medal Local Partner for the 2018 World Finals hosted by Peking University on this the 120th anniversary of Peking University and science in China.

The ICPC Foundation ICPC Global Medal Local Partner Award is presented to a group, institution, or company that has played an instrumental role in the success of one International Collegiate Programming Contest World Finals and thereby strengthening global commitment to develop consummate problem solvers among the next generation of university graduates.

The 2018 ICPC Foundation
Global Impact Award

Presented to

**Arab Academy for Science,
 Technology and Maritime Transport**



Ismail Abdel Ghaffar



Ossama Ismail



Yousry ElGamal



Mohamed Fouad

for leadership uniting the leading academic institutions throughout North Africa and the Middle East to empower the next generation of problem solvers in the computing sciences and engineering.

In eight years, participation has grown from 66 teams from 27 universities to 1036 teams from 191 universities with 9 country-level competitions advancing to a spectacular finals, the ACPC.

The ICPC Global Impact Award is presented to an individual or group that has played an instrumental role in the growth of the International Collegiate Programming Contest World Finals.



The 2018 ICPC Foundation
James Comer
Distinguished Regional Contest Director Award

Presented to



C. Jinshong Hwang
Texas State University

For advancing excellence in the software arts

by serving as Director of Asia Contests since the inception of the role.

Dr. Hwang's leadership has contributed 40% of the participation in the ICPC globally.

The James Comer Distinguished Regional Contest Director Award is presented annually to ICPC regional leaders who have played instrumental roles in the success of the International Collegiate Programming Contest for twenty or more years.

The 2018 ICPC Foundation
Asia
Distinguished Leadership Award

Presented to



Anand Shenoi

Gu Aijun

Kiyoshi Ishihata

Lizhi Zhang

Nguyen Long



Normaziah A. Aziz

Sandesh Gupta

Wandong DING

Xuefeng Jiang

Yen Lina Prasetyo

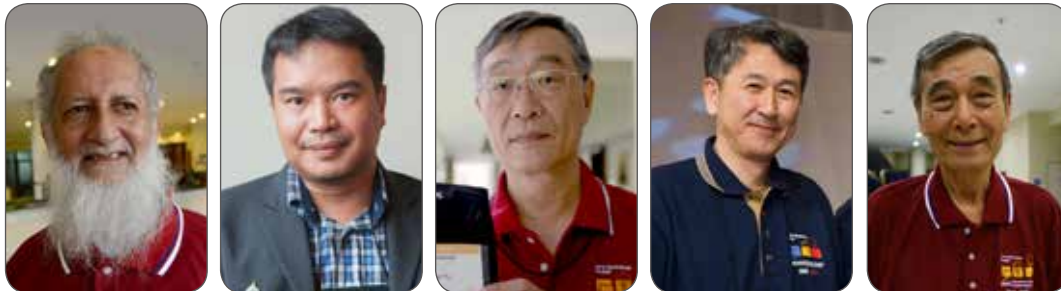
*in recognition of service to the communities, industry, academia,
and students of computing sciences and engineering in Asia
through strengthening the ICPC throughout Asia*

The Asia Leadership Award is presented to an individual, group, or institution who has played an instrumental role in advancing international educational programs that open doors of opportunity for future opportunity creators, and doing so within the open, encouraging ICPC spirit and problem-solving ideals of the ICPC Community.



The 2016 Asia Leadership Award

Presented to



Abul L. Haque

Amarin Deemagarn

Jingshan Yu

Katsuhiko Kakehi

Kyung Yong Chwa



Mohammad Ghodsi

Phalguni Gupta

Wei Xu

Wenxin LI

*in recognition of service to the communities, industry, academia,
and students of computing sciences and engineering in Asia through
strengthening the ICPC throughout Asia*

Distinguished Leadership in Asia

The Asia Leadership Award is presented to an individual, group, or institution who has played an instrumental role in advancing international educational programs that open doors of opportunity for future opportunity creators, and doing so within the open, encouraging spirit and problem-solving ideals of the ICPC Community.

2018 ICPC Foundation Lifetime Coach Award (20+ Years)



Krzysztof Diks University of Warsaw

Why do you continue coaching ICPC teams?

The ICPC is a great contest. It touches the core of computer science, i.e. algorithmics and programming. Coaching ICPC teams means shaping not only students' technical skills but also developing important social attributes such as: diligence, constant striving for self-development, self-discipline, hunger for knowledge, self-improvement, ability to work in a team, honesty, ambition, eagerness to compete, hunger for success. And last but not least, coaching is simply fun for me.



2018 ICPC Foundation Senior Coach Award



Chris Gouge
University of Central Florida

Why do you continue coaching ICPC teams?

There's something about competition that inspires people to hard work and commitment. I love seeing students motivated to push beyond their perceived boundaries and achieve levels they previously thought impossible. This is a lesson that they can take with them into all aspects of their lives. I hope that my coaching helps them to conquer challenges and make the world a better place.



Kamran Bavar
Sharif University of Technology

Why do you continue coaching ICPC teams?

As a coach, I greatly enjoy being able to work with the brightest and most dedicated students. It is very rewarding to guide the students and see them grow throughout the competition. I also enjoy designing and thinking about the problems, and we have a lot of fun organizing regional contests.

2018 ICPC Foundation Coach Award (5+ Years)



Danny Sleator
Carnegie Mellon University

Why do you continue coaching ICPC teams?

There are many reasons that I have continued my involvement in ICPC for so many years. First of all, this activity is of great value to students. Training for ICPC involves learning a wide range of classic algorithm design and programming techniques. It also fosters a deeper and more creative kind of thinking about algorithms. Independent of participating in ICPC, these skills are useful to students both during their college years and after. I also enjoy solving these problems myself!



David Kempe
University of Southern California

Why do you continue coaching ICPC teams?

There are several reasons. A simple one is that - like many other (former) contest participants, I'm a competitive person, and I want my university to do well competing against the best in the world. Someone has to help make that happen, and it might as well be me (and my wonderful co-coaches). But at another level, I also think that contests - local, regional, and global - are a great way to challenge our top students. A degree program at a university is necessarily designed to appeal to a wide spectrum of students, and while most of our students are very, very good, the truly exceptional students often don't find clear avenues to be genuinely challenged and pushed. Local contests and training for later stages is one of the great ways of challenging those students, while teaching them really useful problem solving techniques. Indeed, many great students have distinguished themselves in our contests, and subsequently found great fits in research projects with myself or my colleagues. This "talent identification" benefit to me is at least as important as the contest itself.





Yuriy Aydarov

Perm State University

Why do you continue coaching ICPC teams?

I continue coaching ICPC teams because the number of participants grows, and there's more and more work to do. Both our medals are unforgettable, and it is the greatest lesson that luck comes when you are prepared for opportunity. More than 50 people from Perm State University have participated in regionals; more than a dozen have advanced to the World Finals. It is really the club of the best programmers in the area. They continue to do incredible things and excel professionally. My advice to other coaches and contestants is to network as much as possible.



Heon Young Yeom

Seoul National University

Coach Yeom has brought teams to the World Finals in 2010, 2011, 2012, 2015, 2017 and this year 2018 makes the 6th time!



Taisook Han

KAIST

How have you seen ICPC affect your life and/or your students' lives?

I have been working for the Daejeon Regional Contest as staff and a coach since 1999. It is quite valuable experience to understand the role and spirit of ACM ICPC. Even though many KAIST teams have participated in the World Finals, it is my sixth appearance as a coach, of which I am very proud. But I am more proud of my service to the Daejeon Regional Contest as staff for 18 years, which always motivates me to serve as a coach and encourage my students to participate in ACM ICPC. As a coach, my role is planning team practice schedules and motivating them continuously to refresh from tiredness and boredom. I wish to be a good coach and provide expertise in algorithms and problem solving.



Godmar Back

Virginia Tech

How have you seen ICPC affect your life and/or your students' lives?

Having been a 1995 World Finalist myself, I took a long break from the ICPC while I pursued my academic career. In 2012, I was given the chance to start coaching at Virginia Tech. Since then, I've been lucky enough to help many really talented students grow successfully. In 6 years, we have grown a program from very little to now hosting our own ICPC regional site. I am looking forward to many more years of coaching.





Chunying Liu
Hangzhou Dianzi University

How have you seen ICPC affect your life and/or your students' lives?

I have been an ICPC coach for 14 years. I am so lucky to have entered the world of ICPC. ICPC not only gave me a chance to train some excellent students, but also gave me a chance to enjoy customs and landscapes all over the world. More importantly, it gave me a chance to grow alongside my students. I hope more and more students participate in this contest.



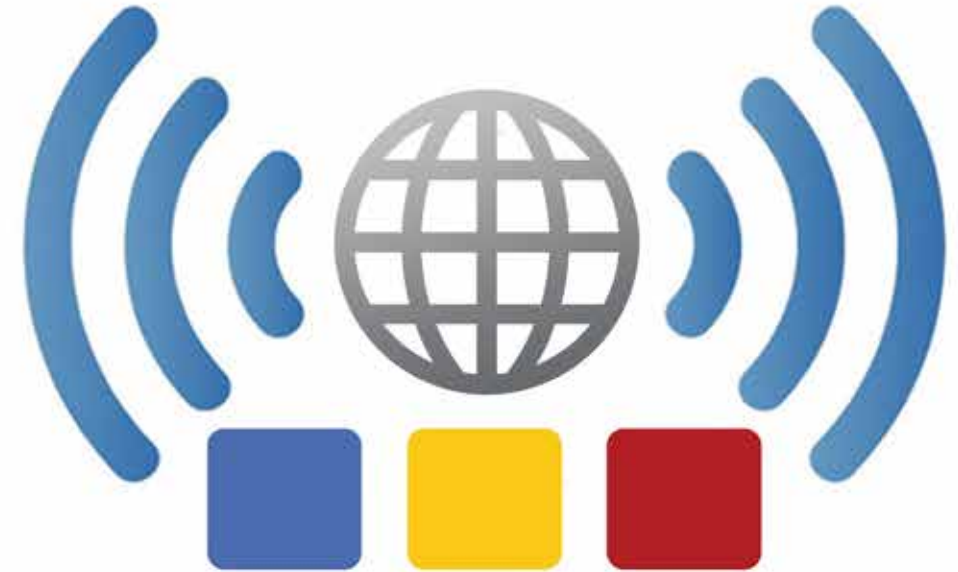
Aleks Ignjatovic
University of New South Wales

Why do you continue coaching ICPC teams?

Coaching our ICPC teams is by far the most enjoyable part of my job as an academic at the University of New South Wales. I believe I get much more from my students than what they get from me; after each interaction with them I feel rejuvenated and motivated to do a good job as a teacher. Their enthusiasm for problem solving is pure and infectious; every moment with them is refreshing and enchanting. I feel privileged to be their coach, and even after they graduate I stay in touch with them and enjoy their successes as the best computer scientists at top companies and universities.



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LOCAL INFORMATION

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Contest Venues



University Hall

Opening and Closing Ceremonies will be held in Peking University Hall, the 2000+ seat massive performance hall built to celebrate the 100-year birthday of Peking University. Covering more than 5,600 square meters, this spacious venue is the biggest multifunctional complex among universities and colleges in China, with advanced establishment and complete functionality. It hosts a varied array of cultural events that attract a huge crowd time after time. Students and art-lovers from all over the city congregate for a slice of the cultural offerings available at this venue.



Khoo Teck Puat Gymnasium

Peking University's Khoo Teck Puat Gymnasium is an indoor arena that was originally constructed for the 2008 Summer Olympics. With 26,900 m² of floor space and room for 6,000 permanent seats and 2,000 temporary seats, this gym is the first in the world specifically designed for table tennis. Built in an architectural style called "China Ridge" to reflect the spirit of sports, the gym was remodeled to meet international and domestic needs: major sporting events and other large-scale events.



China National Convention Center (CNCC)

The celebration dinner will be held at CNCC. It officially opened in October 2009 for its originally intended function – providing international standard, purpose-built convention and exhibition facilities. The Center was an important element in the overall plan for the 2008 Beijing Olympic Games when it served as the main press center and international broadcasting location as well as providing the venue for fencing and pistol shooting competitions. CNCC is ideally located in the heart of the Olympic Green adjacent to the National Stadium (Bird Nest), the National Aquatics Center (Water Cube) and the National Indoor Stadium – all of which are proving popular places for people to visit in post Olympic Games times.

Hotels



Sheraton Grand Beijing Dongcheng Hotel

Address:
36 North Third Ring Road East, Dongcheng District,
Beijing 100013, China

Tel. (86 10) 5798-8888

Soak up the vibrant energy of China's capital at the Sheraton Grand Beijing Dongcheng Hotel. Strategically located in the northeast part of Beijing and merely 25 minutes from Beijing Capital Airport, our hotel is the perfect jumping-off point for discovering Beijing's iconic destinations such as the Great Wall, Summer Palace, Forbidden City, Olympic Bird's Nest, Lama Temple and the ancient dwellings and alleys at Wudaoying hutongs.

Learn more, see more and do more every time you stay at Sheraton. Settle in one of our warm and inviting guestrooms and suites or simply relax and enjoy the panoramic sunset view in our Sheraton Club. Stay fit at our 24-hour access state-of-the-art Fitness Center, rejuvenate in our indoor lap pool or work smart with Wi-Fi and dynamic meeting spaces. After a long day of exploring, savor a fresh take on our distinct food and beverage venues offering local and international flavors from Chinese to Italian or Japanese fares to regional and western dishes.



Marco Polo Parkside, Beijing

Address:
78 Anli Road, Chaoyang District,
Beijing 100101, China

Tel. (86 10) 5963-6688

Centrally located in the prime business district of Yayuncun, the 315-room Marco Polo Parkside Beijing is two kilometers away from the some of the city's most vibrant and recognizable landmarks, such as the China International Convention Centre, Beijing International Convention Centre, the 4,000 acres Olympic Park, the "Bird's Nest" Stadium and the "Water Cube" Aquatics Centre, and the China National Science Centre. Accessible by a quick 25-minute drive from the Beijing International Airport and only a five-minute walk to the Line 5 subway station, Marco Polo Parkside Beijing is also in between two major food streets - Yayuncun Food Street and Jinquan Food Plaza, catering to every taste and palate with over 100 restaurants for you to choose from. The hotel is also easily accessible to key commercial and IT zones such as Zhongguancun and Wangjing IT zone.



Crowne Plaza Beijing Zhongguancun

Address:

No. 106 Zhi Chun Road, Haidian District,
Beijing 100086, China

Tel. (86 10) 5993-8888

China's Silicon Valley - Zhongguancun is a technology hub in Haidian district, Beijing. Crowne Plaza Beijing Zhongguancun, the first five star international hotel in the Zhongguancun area, opened on 19th September 2008. The hotel is ideally located within walking distance to the subway and with easy access to 3rd and 4th ring roads. With its convenient location, upscale facilities and professional service, Crowne Plaza Beijing Zhongguancun will truly assist you in "Travelling For Success" as you find yourself surrounded by famous high-tech companies such as Microsoft, Sohu, Lenovo, and China Steel and neighboring renowned institutions Peking University, Tsinghua University and Renmin University; Yuanminyuan and Summer Palace are all also nearby.

Each of the Hotel's 298 guestrooms and suites offers panoramic city views and a vast spectrum of amenities, including high-speed internet access, a mini-bar, an electronic safe, a natural light bathroom with a separate rain forest shower stall, a 37-inch flat screen LCD television and generous floor space starting at 45 square meters.



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2018 World Finals ICPC Volunteer Delegations

Analytics & Graphics

Tim deBoer
ICPC Graphics

Stein Norheim
ICPC Analytics Director

David Sturgill
ICPC Graphics

Iakov Dlugach
ICPC Analytics

Monika Steinova
ICPC Analytics

Michal Svagerka
ICPC Analytics

CLI Symposium

William Booth
CLI Symposium Director

Felix Halim
ACM - ICPC Live Archive

Vinit Shah
ACM - ICPC Live Archive

Donna Furon
North America Southern California
- Registrar and General Factotum

Miguel A Revilla
ACM - ICPC Live Archive

Borja Sotomayor Basilio
North American Invitational
Programming Contest - Director
and NA Mid-Central USA - Director
of Systems

Marc Furon
Regional Contest Problem Sharing
Coordinator

Miguel Revilla Rodríguez
ACM - ICPC Live Archive

Contest Control System

Mattias de Zalenski
World Finals Contest Control
System

Keith Johnson
World Finals Contest Control
System

Anders Sjöqvist
World Finals Contest Control
System

Jacob Eldering
World Finals Contest Control
System Co-director

Fredrik Niemelä
World Finals Contest Control
System

Pehr Söderman
World Finals Contest Control
System

Nicky Gerritsen
World Finals Contest Control
System

Tobias Polzer
World Finals Contest Control
System

Tobias Werth
World Finals Contest Control
System - Director

ICPC Events

Brad Elliott
ICPC Events

Laura Gladwish
ICPC Events

Zara Hemmings
ICPC Events

Melissa Elliott
ICPC Director of World Finals Events

ICPC Live

Vitalii Aksenov
ICPC Live

Roman Elizarov
Northern Eurasia Chief Judge and
ICPC Live Director

Anna Evseeva
ICPC Guest

Pavel Krotkov
ICPC Live - Software

Mikhail Kutsov
ICPC Live

Lidia Perovskaya
ICPC Live Video Director

Egor Kulikov
ICPC Live Commentator and ICPC
Analytics

Pavel Mavrin
ICPC Live Art Director

Viktoriia Volochai
ICPC Live and ICPCNews

Niyaz Nigmatullin
ICPC Live

ICPC Services

Robert Cepa
ICPC Services

Michael Eamma
ICPC Services

Ruolin Wang - ICPC Services

Tomáš Černý
ICPC Headquarters Lead Developer

Antonin Smid
ICPC Services

ICPC Staff

Roy Andersson
ICPC Director of Regional Contests

Taylor First
ICPC Ceremonies

Susan McNealy-Minor
ICPC Ceremonies

Helén Augustini
Regional Contest Symposium
Assistant

Aleksandr Galperin
ICPC Operations

Karen Moawad
ICPC Volunteer

Erich Baker
ICPC Headquarters

Lucy GUO
ICPC Industry Advisory Board

Doug Mohr
ICPC Industry Advisory Board

Evgeny Barskiy
ICPC Volunteer

Jennifer Hobbs
ICPC Volunteer

Vladimir Novakovski
ICPC Industry Advisory Board

James Bennighof
Baylor University Vice Provost for
Academic Affairs and Policy

Mark Hobbs
ICPC Volunteer

Betty Orooji
ICPC Volunteer

Stephen Bourne
ACM President Emeritus and ICPC
Director of Ceremonies

Sharon Humphrey
ICPC Registrar

Marsha Poucher
ICPC Advisor

Kevin Clevenger
ICPC Ceremonies Coordinator

Patrick Hynan
ICPC Deputy Director of
Operations

William Poucher
ACM - ICPC Executive Director
and ICPC Foundation Director

James Comer
Director of Regional Contests
Emeritus

Matvey Kazakov
ICPC Director of Operations

Maddy Renström
ICPC Guest Services Assistant

Marjene Comer
ICPC Manager Assistant

Muhammed Ikbal KAZAR
ICPC Industry Advisory Board

Mikael Renström
ICPC Director of Guest Services

Joseph DeBlasi
ICPC Awards Committee

Ben Kelley
ICPC Chief Marshal

Laura Sepanski
ICPC Assistant Manager

Jeff Donahoo
ICPC Deputy Executive Director
and Executive Director of World
Finals Contests

Sofya Kondrashina
ICPC Operations and
Ceremonies

Mark Sepanski
ICPC Headquarters

Lisa Donahoo
ICPC Contest Manager

Dmitry Korolev
ICPC Volunteer

Cheryl Tucker
ICPC Registrar Assistant

Jan Madey
ICPC Advisor

Holly Tucker
ICPC Registrar Assistant

Egle Uljas
ICPC Manager Assistant



ICPCNews

Katie Allison ICPCNews Video	ICPCNews Social Media and ACPC Media - Director
Fadi Ashy My ICPC Story Winner	Bettina Johnson ICPCNews Producer
Daniel Beard ICPCNews - Video	Justin Philalack ICPCNews Video
Hans Domjan ICPCNews Producer/Photo Management	Charles Piland ICPCNews Photographer
Oliver Fischer ICPCNews Video	Emily Rhyné ICPCNews Video
Nicole Hosh	Michael Roytek ICPCNews Photographer

SysOps

Samir Ashoo ICPC SysOps	John Clevenger ICPC Technical Director	Patrick Sweitzer ICPC SysOps
Troy Boudreau ICPC SysOps	Douglas Lane ICPC SysOps	

Judges

Per Austrin World Finals Judge	Martin Kacer World Finals Judge	Robert Roos World Finals Judge
Babak Behsaz World Finals Judge	Derek Kisman World Finals Judge	Jan Matthias Ruhl World Finals Judge
John Bonomo World Finals Chief Judge	Shahriar Manzoor World Finals Judge	Stanley Wileman World Finals Judge
Michael Goldwasser World Finals Judge	Deon Nicholas World Finals Judge	Jakub Wojtaszczyk World Finals Judge
Walter Guttmann World Finals Judge	Jo Perry ICPC Director of Judging	
Greg Hamerly World Finals Judge	Dick Rinewalt World Finals Judge	

2018 World Finals Championship Volunteer Delegations

ICPC Africa and the Middle East Contest Directors

Faisal Abu Khzam Lebanese Collegiate Programming Contest Contest - Director	João Manuel de Azevedo Leão Angolan ICPC Headquarters - Director	Ossama Ismail Arab Collegiate Programming Contest - Director
Mousa Alrefaeh Palestinian Collegiate Programming Contest West Bank Contest - Director	Yousry Elgamal Arab Collegiate Programming Contest - Steering Committee Chair	Valeriano Messele Angolan ICPC - Executive Director
Mohammed Al-Badawi Oman Collegiate Programming Contest Contest - Director	Diaa Alhak El Fallous Moroccan Collegiate Programming Contest - Director	GNIMADI Prosper West Africa Contests - Director
Jafar Alkheir Syrian Collegiate Programming Contest Contest - Director	Mohamed Fouad ICPC Director of Logistical Operations and Arab Collegiate Programming Contest - Executive Director	Sidi Ali Maelainin Maghreb Area Chair

ICPC Africa and the Middle East Contest Support & Future World Finals Delegations

Ahmed Abdelrazek Arab Collegiate Programming Contest - Chief Judge	Anagheem Alnagm Azzam Arab Collegiate Programming Contest - ERCD Assistant in Damascus	Hani Chaaban Tishreen University President
Ashraf Ahmad Arab Collegiate Programming Contest - Levant Area Chair and Jordan Delegation	Tarek Barakat RCD Representative in Syria	Yomna Darwich Arab Collegiate Programming Contest Guest Relations - Director
MarieBelle Alhabr Arab Collegiate Programming Contest - ERCD Assistant in Lebanon	Maha Ben Abdallah Arab Collegiate Programming Contest - Deputy ERCD in Tunisia	Hugues Degla West Africa Contests - Deputy Director
Sufyan Almajali Jordan Delegation	Noura Boubou Arab Collegiate Programming Contest Deputy Media Director	Asmae EL MAHDI Arab Collegiate Programming Contest - Maghreb Area Coordinator
Ahmed Aly Arab Collegiate Programming Contest - Chief Judge	Nourhane Bziouech Arab Collegiate Programming Contest - Systems	Ahmad El-sayed Arab Collegiate Programming Contest - System Administrator



Amal Fayed

Arab Collegiate Programming Contest - Deputy ERCD in Gulf Area

Mustafa Fayed

Kuwait Collegiate Programming Contest - Operations

Mohamed Fayez

Arab Collegiate Programming Contest - Headquarters

Rudolf Fleischer

Gulf Area Representative

Mounir Frikha

RCD Representative in Tunis

Mustpha Hamza

Maghreb Area Chair
Representative in Tunis

Maher Kabakibi

Damascus University President

Abdelrahman Mostafa

Arab Collegiate Programming Contest - Director of Operations

Ibrahim Salah

Arab Collegiate Programming Contest - Operations

Sam Obossa TOSSOU

Benin Contest Organization Manager

Tomás Orlando Junco Vázquez

Angolan ICPC - Assistant Director and Havana Delegation

ICPC Asia East, Asia Pacific & Asia West Contest Support & Future World Finals Delegations

Normaziah Abdul Aziz

Asia Council Member

Kyar Nyo Aye

Asia Yangon Committee

Jun Cao

Asia Shanghai Committee

Doojin Choi

Asia Daejeon Advisor

Kyung Yong Chwa

Asia Daejeon Committee

Wandong Ding

Asia Beijing Committee & WF Delegation

Bilkis Jamal Ferdosi

Asia Dhaka Coordinator and Dhaka Delegation

Xuesong Fan

Asia Beijing Committee & WF Delegation

Wei Guo

Asia Beijing Committee & WF Delegation

Sandesh Gupta

Asia Kolkata-Kanpur Committee

Bernard Gunawan Hadipoespito

Asia Jakarta Advisor & CEO Binus Uvi.

Abul Haque

Asia Dhaka Associate Director

Kiyoshi Ishihata

Asia Yokohama Senior Consultant

Felix Jingga

Asia Jakarta Committee

Don Khue Le

Asia Hanoi Committee

Kyungmi Lee

Asia Daejeon Committee

DongMei Li

Asia Provincial/National/Invitational Contest Coordinator

Junrui Liu

Asia EC-Final Committee Member

Nguyen Long

Asia Hanoi Committee Advisor

Zhongke Li

Asia EC-Final Committee Member

Guojie Luo

Asia Beijing Committee & WF Delegation

Pau Suan Mung

Asia Yangon Coordinator

Sheng-Lung Peng

Asia Taipei Committee

Fredy Purnomo

Asia Jakarta Committee

Sanjay Sanjay

Asia Yangon Committee

Wudhichart Sawangphol

Asia Nakhon Pathom Associate Director

Chan-Su Shin

Asia Daejeon Committee

Noriko Suzuki

Asia Yokohama Committee

Enqiang Qin

Asia EC-Final Advisor

Nam Tran Quy

Asia Hanoi Coordinator

Shiyuan Wang

Asia Shenyang Coordinator

Qi Wang

Asia EC-Final Committee Member

Anita Wu

Beijing Didi Infinity Technology and Development Co., Ltd. - IMC Manager

Wei Wu

Asia Shanghai Coordinator

Min-Zheng Shieh

Asia Taipei Committee

Rie Shigetomi Yamaguchi

Asia Yokohama Committee

Wei Yan

Asia EC-Final Committee Member

Boyang YANG

Asia EC-Final Advisor

Yao Yao

Asia EC-Final Committee Member

Yunli Yang

Asia Beijing Committee & WF Delegation

Jingshan Yu

Asia Council Member

Hamid Zarrabi-Zadeh

Asia Tehran Associate Director

Liyin Zheng

Asia Qingdao Committee Member

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Asia Kabul Director

Fangming Bi

Asia Xuzhou Coordinator

Prabir Kumar Biswas

Asia Kharagpur Director

Jamilur Choudhury

Asia Dhaka RCD & UAP Chancellor & Dhaka Delegation

Joydip Dhar

Asia Gwalior Director

Mohammad Ghodsi

Asia Tehran Director

Aijun Gu

Asia Shanghai Coordinator

Phalguni Gupta

Asia Kolkata - Kanpur Director & Asia Associate Director

Steven Halim

Asia Singapore Director

C Jinshong Hwang

Asia Super-Regional Director

XueFeng Jiang

Asia EC-Final Coordinator & Asia Associate Director

Katsuhiko Kakehi

Asia Super-Region Associate Director

Nabeel Khan

Asia Lahore Director

Minming Li

Asia Hong Kong Director

Wenxin Li

Asia Beijing RCD & Asia Associate Director & WF Delegation

Jarernsri Mitranont

Asia Nakhon Pathom Director

Khine Moe Nwe

Asia Yangon Director

Yen Lina Prasetio

Asia Jakarta Director

Anand Shenoj

Asia Amritapuri Associate Director

Shingo Takada

Asia Yokohama Director

Phuong Tu

Asia Hanoi Director

TaeCheon YANG

Asia Daejeon Director

Hsu-Chun Yen

Asia Taipei Director

Lizhi ZHANG

Asia Shenyang Director

Xuehui ZHANG

Asia Qingdao Coordinator

Chunran Zou

Asia Nanjing Coordinator



ICPC Europe Contest Directors

Antoine Amarilli Southwestern Europe Regional Contest - Director	Jan Kubr Central Europe Regional Contest - Director	Nicolae Țăpuș Southeastern Europe Contest - Director
Rachid Hourizi Europe Northwestern Europe Regional Contest - Director	Bozena Mannova Europe Contests - Super-Regional Director	Kevin Verbeek Northwestern Europe Regional Contest - Director

ICPC Europe Contest Support & Future World Finals Delegations

Hugo Abreu Porto Delegation	José Paulo Leal Porto Delegation	Serhii Petrov Ukraine Delegation
Vitalii Bondarenko Ukraine Delegation	Krešimir Malnar Central Europe Regional Contest - Advisor	Fernando Silva Porto Delegation
Carlos Brito Porto Delegation	Volodymyr Mesyura Europe Vinnytsia Site Director & Ukraine Delegation	Natia Zarkua Northern Eurasia Georgia Subregional Contest Trans-Caucasian Site - Assistant
James Davenport Northwestern Europe Regional Contest - Director Emeritus	Bertrand Meyer Southwestern Europe Regional Contest - Deputy Director	Lenka Zerzanova Europe Contests - Assistant
Václav Herman Europe CTU Open - Organizer		

ICPC Northern Eurasia Contest Directors

Magaz Asanov Northern Eurasia Eastern Subregional Contest - Director	Ramin Mahmudzade Northern Eurasia Azerbaijan Subregional Contest - Director	Katsiaryna Paziura Northern Eurasia Western Subregional Contest - Director
Gennadii Desiatkov Northern Eurasia Kyrgyzstan Subregional Contest - Director	Bakhyt Matkarimov Northern Eurasia Kazakhstan Subregional Contest - Director	Mikhail Royak Northern Eurasia West Siberian Subregional Contest - Director
Vahram Dumanyan Northern Eurasia Armenia Subregional Contest - Director	Anton Pankratyev Northern Eurasia Moscow Subregional Contest - Director	Sergey Videnin Northern Eurasia East Siberian Subregional Contest - Director
Alexander Klenin Northern Eurasia Far Eastern Subregional Contest - Director	Vladimir Parfenov Northern Eurasia Contests - Super-Regional Director	Teodore Zarkua Northern Eurasia Trans-Caucasian Site - Director
Elena Kryuchkova Northern Eurasia Siberian and Far-Eastern Site - Director		

ICPC Northern Eurasia Contest Support & Future World Finals Delegations

Artem Belyaev Northern Eurasia Kyrgyzstan Subregional Contest - Operations Director	Georgiy Korneev Northern Eurasia Contests - Deputy Director	Tatyana Nesterenko Novosibirsk Delegation
Tatyana Churina Novosibirsk Delegation	Martynova Ksenia Moscow Delegation	Darya Nosova Novosibirsk Delegation
Iurii Dedenev Kazan Delegation	Michael Lavrentiev Novosibirsk Delegation	Vladimir Pinaev Northern Eurasia Central Subregional Contest - Deputy Director
Gleb Evstropov Northern Eurasia Moscow Subregional Contest - Chief Judge	Anatoliy Lokot Mayor of Novosibirsk - Novosibirsk Delegation	Bulat Satrutdinov Kazan Delegation
Antonina Fedorova Northern Eurasia Southern Subregional Contest - Director	Nikita Lukianov Moscow Delegation	Tatiana Semenova Northern Eurasia Southern Subregional Contest - Organizing Committee Secretary
Mikhail Fedoruk Novosibirsk University Rector - Novosibirsk Delegation	Alexandr Lyulko Head of the Department of Industry and Innovations- Novosibirsk Delegation	Etibar Seyidzade Northern Eurasia Azerbaijan Subregional Contest - Chief Judge
Darya Galeeva Kazan Delegation	Alexey Maleev Northern Eurasia Moscow Subregional Contest - Deputy Director and Moscow Delegation	Margarita Shadrina Northern Eurasia Ural Subregional Contest - Operations Director
Aleksandr Ipatov Northern Eurasia Ural Subregional Contest- Strategy Director	Pavel Mandrik Northern Eurasia Western Subregional Contest - Organizing Committee Director	Alexey Steblev Moscow Delegation
Kamil Khadiev Kazan Delegation	Evgeniy Molin Chairman, Committee on International Cooperation - Novosibirsk Delegation	Alexander Stenenko Novosibirsk Delegation
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ICPC Latin America Contest Directors

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ICPC Latin America Contest Support & Future World Finals Delegations

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Latin America/South America/
South - Argentina Staff Member

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Latin America/Brazil - Judge

Carla Gallardo
Latin America/South America/
South - Logistics Coordinator/Chile

Rafael Garcia
Latin America/South America/North
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Latin America/Mexico - Assistant
to Mexico Contest Director

Juan Pablo Marin Rosas
Latin America/Mexico - Chief
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Latin America/Caribbean Contest
- Assistant Director at UCI and
Havana Delegation

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President at UCI; Member of the
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Latin America Contests - Judge

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Camilo Rocha
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- Systems/Colombia

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Alejandro Sazo
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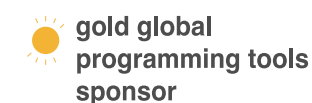
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