ACM International Collegiate Programming Contest 2010
Sponsored by IBM
Hosted by Harbin Engineering University

Harbin, China 1-6 February, 2010
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Welcome to Harbin

Welcome to Harbin! Harbin is honored to be the host for the ACM-ICPC World Finals 2010. We are happy to have your presence in this beautiful city, Harbin, about which beauty in ice and snow is often praised. Known as the “Oriental Paris” and the “Ice City”, Harbin is delighted to be the magnificent venue for the ACM World Finals 2010. Here you would find yourself a piece of lasting memory about her sharp but inviting winter spell. Harbin is not only a city of beauty, but also of legend and history. Just as Chairman Mao delineates in his poem Snow:

North country scene:
A hundred leagues locked in ice,
A thousand leagues of whirling snow.
Both side of the Great Wall
One single white immensity.
The Yellow River’s swift current
Is stilled from end to end.
The mountains dance silver snakes
And the highland charge like wax—hued elephants,
Vying with heaven in stature.
On a fine day, the land,
Clad in white, adorned in red,
Crows more enchanting.

This land so rich in beauty
Has made countless heroes bow in homage.
But alas! Qin Shihuang and Han Wudi
Were lacking in literary grace,
And Tang Taizong and Song Taizu
Had little poetry in their souls;
That proud son of Heaven,
Genghis Khan,
Knew only shooting eagles, bow outstretched.
All are past and gone!
For truly great men
Look to this age alone.

With this brochure, Harbin strongly wishes her beauty, history, and hospitality would witness a wonderful time for all the guests here, and an impressing story of youself, by youself and for yourself.
Greeting from Heilongjiang Province Government

On behalf of Heilongjiang province government and 38 million hospitable people, let me extend our heartfelt congratulations on the grand opening of the contest and warm welcome to the all guests.

ACM International Collegiate Programming Contest is unanimously recognized as a top-level computer-programming contest for college students in terms of scale, requirements and participants number. As a result, it has become an influential contest that is always closely attended by all the well-known universities and computer fans across the world. It is a great honor for us to hold the 2010 ACM International Collegiate Programming Contest World Finals in Heilongjiang province.

In the geographical picture of China, Heilongjiang province lies in the northeast. As an important and lasting base of industry, energy and commodity grain of China, Heilongjiang boasts beautiful environment, abundant natural resources, well-grounded infrastructure, solid industrial and agricultural foundation and well-developed education as well as science and technology. It has long been our tradition to attach importance to the development of science and technology in order to uphold and implement the development policy of promoting development and prospering Heilongjiang through science and technology. To these ends, great efforts has been devoted to improve higher education towards a new stage and cultivate the talents in high technology accordingly. Rewardingly, this contest provides a good learning opportunity for us to exchange with the students from other universities at home and abroad. We will take full advantage of this great event to learn from those renowned universities and computer talents, drawing on each other’s strengths and make great progress together. For us, this event as an impetus would greatly energize the development of computer science in Heilongjiang as well as broaden our perspectives to promote communication and cooperation in the field of international education.

I firmly believe that with the support of Ministry of Industry and Information Technology and Ministry of Education, 2010 ACM-ICPC hosted by Harbin Engineering University will be a successful and exciting event with unique characteristics and sparkling highlights. Let’s look forward to each and every team’s wonderful performance in the contest.

Finally, I wish 2010 ACM-ICPC a great success! I wish all the guests and friends will have a good time and happy stay in Harbin.

Governor of Heilongjiang Province Government
Greetings from Harbin City Government

On behalf of the Harbin Municipal People's Government, I would like to extend my warm congratulations on the opening of this contest and heartfelt welcome to all the delegates, especially the contestants and coaches from all over the world. As an eminent city with a long history, Harbin not only boasts the history and culture of northern ethnic minorities, but also integrates the Chinese and foreign cultures. In Harbin, Confucian Temple, Kek Lok Si Temple and the Western classical architectures, the Orthodox, Catholic and Christian churches contrast finely with each other. Honoured as the "Oriental Paris", with its extraordinarily beautiful sceneries, four distinctive seasons, and diverse and colorful living styles, Harbin is a well-known tourist resort. Well known as "Ice City & Summer Capital", Harbin is also one of the world's cradles of ice and snow culture. Yabuli Alpine skiing, Ice and Snow World, winter swimming in the Songhua River, snow sculptures, ice and snow entertainment have enjoyed a high reputation at home and abroad. Furthermore, Harbin has the world-famous "Harbin Summer Concert", and the annual China Harbin Economic and Trade Fair.

ACM / International Collegiate Programming Contest is the “Olympic Game” among the world's computer programming contest for college students. As 2010 ACM / ICPC World Finals is hosted in Harbin, a good opportunity is available to us for a full display of the city's charm and strength. In 2009, Harbin successfully held the 24th Winter Sports Universiade, and has accumulated rich experience in preparation for large-scale international events. Harbin Municipal Government has spared no effort in supporting Harbin Engineering University’s preparation of 2010 ACM / ICPC World Finals, striving to provide better conditions and environment of high qualities to all the contestants. By constructing a good platform for the communication and cooperation between universities throughout the world, another window for collaborative development would be opened.

In the end, I wish all the contestants will have great performances and this contest a great success. I hope that all of the distinguished guests here will fully enjoy this competing contest, and be able to have a beautiful and unforgettable time in Harbin.

Mayor of Harbin Municipal Government
Greeting from HEU

In this snow-covered, enchanting winter of Harbin 2010, on behalf of the 20,000 faculty, staff, and students in Harbin Engineering University, I would like to send my warmest congratulations on the grand opening of 2010 ACM International Collegiate Programming Contest World Finals. I'm also honored to extend our warm welcome and sincere gratitude to all the officials, guests, contestants and journalists who have come here to attend the event as well as this opening ceremony.

For a long time, HEU has been paying close attention to the development of ACM/ICPC, and also started to take part in the contest at regional level since the year 2005. Actually, we hosted the First Computer Programming Contest in the region of Northeastern China and ACM/ICPC Asian Trials (Harbin). All the staff and students here are highly motivated to undertake this world-class event.

Harbin Engineering University is among the first batch of "Project 211" universities that are entitled to enjoy first priority from the state in construction and development and also one of the universities that have Graduate School. Moreover, HEU is an important base for talent cultivation and scientific research in the fields of ship industry, ocean exploration, nuclear application and industrialization and informationization integration. In the field of computer and information, we have developed certain distinctive research directions such as special application software, information security, informationized modeling and emulation, e-government, etc., in which we still have strong potential for further development.

Today, collegiate programming teams are gathering together here in HEU from universities all over the world, which I suppose will be an excellent opportunity to integrate cutting-edge knowledge as well as to challenge high-level intelligence. I firmly believe that the ACM/ICPC World Finals 2010 hosted by HEU will promote thorough communication and comprehensive cooperation between all the contestants as a whole. As the immediate beneficiary of this event, we are grateful to this contest since our campus culture has been better enriched and academic atmosphere further fostered. In particular, this contest avails us of so many friends all over the world. This, to us, is going to be a great piece of wealth to be valued forever!

Sincerely, I wish the 2010 ACM/ICPC World Finals a complete success!

Zhigang Liu, Ph.D.
President of Harbin Engineering University
Greetings from ACM

Welcome to the 34th annual ACM International Collegiate Programming Contest World Finals. ACM is extremely proud to participate in the life of the ICPC community. I am personally excited to be here in Harbin with you and experience the vitality of the final round of this global event.

We also welcome you to ACM. We are pleased to continue free student memberships to all student participants in the ICPC, with the highest privileges given to you, the 2010 World Finalists.

I would like to express ACM gratitude to Harbin Engineering University for hosting this year’s fabulous event. Another ICPC university partner, Baylor University is home to ICPC Headquarters. My thanks to the Baylor team that makes every year a better one. Additionally, UPE, the international honor society for the computing and information disciplines, deserves thanks for being an ICPC partner since the beginning.

Thanks to all of the industry supporters and sponsors. A special thanks to IBM for its long-term commitment to the ICPC and the global community. The growth of the ICPC has been fueled by IBM’s commitment to global opportunity for students.

I wish you all good fortune in the days ahead, both here at the World Finals and as your career unfolds. Join the computer scientists, engineers, innovators, and inventors who have made ACM part of their career since industry first emerged. You will be glad you did.

Best wishes!

Alain Chesnais
ACM Vice President
Welcome to Harbin!
Welcome to the 34th Annual ACM International Collegiate Programming Contest World Finals sponsored by IBM and hosted by Harbin Engineering University!
The ACM-ICPC World Finals culminates the efforts of faculty and students from 1,931 universities in 82 countries competing at 242 regional sites worldwide. The top 103 teams have advanced to the World Finals. Congratulations to the 2010 World Finalists and to those who have made this possible!

You have earned the right to compete here in Harbin for a simple reason. You bested 21,648 of the finest university students on six continents who challenged you to do your best. So here you are, champions all, with the opportunity to earn medals – bronze, silver, and gold – while vying to make the “2010 World Champions” prove their rights to the title.

There are so many stars visible in the ICPC Community. UPE has served for 40 years, ACM has served for 34 years, and Baylor University has served for 27 years. In 13 years of IBM sponsorship, the ICPC has extended opportunity on six continents!

Consider Measures Award winner Wei Min Zhou and the Asia Award Winners, who have extended the ICPC Community to engage universities throughout Asia while raising the bar of performance and aspirations to extraordinary levels throughout the globe.

Consider your regional leadership, the organizers, the judges, the systems teams, the media teams, your coaches, your universities, industry leaders, and community leaders who join together to make certain that the efforts of the ICPC Community make a lasting difference.

Here, in Harbin, during the world’s greatest Snow and Ice Festival, where great civilizations have crossed roads, trading goods and ideas; here, where the cold of winter only accentuates the warmth of the HEU welcome, with city, province, and country opening its arms in a hearty welcome; let us draw from that strength and purpose as we celebrate the opportunities before us. HEU has made ready an extraordinary World Finals experience. So, let’s look forward to an outstanding World Finals forged in the crucible of judges’ problems and the energy of the finest teams ever to compete in the World Finals.

Best Wishes!

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

Welcome to the 34th Annual ACM International Collegiate Programming Contest World Finals! IBM is the proud sponsor of this event—the world’s largest and most prestigious programming competition featuring the best and brightest university students in the world. We are delighted to be here with you in Harbin, China, world renowned for its famous Ice and Snow Festival!

All of you have worked very hard to prepare for this World Finals competition. Whether you’re a contestant, coach, regional contest or site director, participant, or volunteer, I commend you for your dedication, and hard work. I also want to thank the ICPC leadership and volunteers, our host, Harbin Engineering University, and the IBM team for their outstanding commitment and tireless efforts to make this week a memorable one for all.

I hope that you will take full advantage of meeting and networking with the other participants here from all over the world. Many long-lasting friendships began at an ICPC World Finals; we hope you will continue this tradition.

The ACM-ICPC World Finals is a gathering of the world’s brightest young programmers, and you should be very proud to be a part of this elite group. We look forward to spending time with you throughout the week, especially at one of the many fun activities that are being planned around the amazing Snow and Ice Festival. Of course the highlight of the week for me, and for all of my IBM colleagues, will be the main event and watching you compete on the international stage on Friday.

After months of preparation, the 2010 ACM-ICPC World Finals is finally here! Be proud of what you have already accomplished. Try to get as much as you can out of this extraordinary life experience, try to relax and try to have lots of fun this week. The memories that you will make during this exciting and momentous time will remain with you forever!

Doug Heintzman
ACM-ICPC Sponsoring Executive
Director of Strategy, Lotus Software
IBM Software Group
Message from Upsilon Pi Epsilon:
On behalf of Upsilon Pi Epsilon, I welcome the students, coaches, and ICPC volunteers to the 2010 competition here in Harbin. We also wish to say a special thanks to our host, the Harbin Engineering University (哈尔滨工程大学), for their hospitality and for giving all of us the opportunity to experience a winter wonderland that we expect to be truly unique and will cherish for the rest of our lives.

The ICPC in Harbin marks the 34th year for this international competition. There are several factors that have contributed to the continuing success of this annual event including the backing of the ACM, the world's largest professional organization in computing, and the financial sponsorship of the IBM Corporation. In addition, UPE presents team cash awards and we have institutional supporters including Baylor University and Harbin Engineering University. More than our financial sponsors, however, the ICPC functions well because of the many volunteers from around the world who serve as team coaches, regional coordinators, contest organizers, the colleges and universities represented by the 100 participating teams, and staff members who work all year to oversee and carry out the various local and regional contest functions - that culminate in the one-week event that we all know as the ICPC. UPE wishes to extend our heartfelt thanks to all of these volunteers.

To the students who are represented here this week, we extend to you our best wishes and, regardless of the contest outcome, be assured that you are returning home as winners by your participation in the 2010 ICPC.

Sincerely,

Orlando S. Madrigal, Ph.D.
UPE Executive Director
Greeting from OCD

On behalf of all the staff of the 2010 ACM/ICPC HEU Organizing Committee, I would like to extend a warm welcome to the arrival of all the leaders and distinguished guests. Welcome to Harbin! Welcome to Harbin Engineering University!

Harbin is a city full of innovation and so is Harbin Engineering University. The sense of innovation, together with practical competence, has long been attended and listed in the curriculum design with first priority in our university. Accordingly, the edge of students’ competence in these two aspects is attached with great importance as a critical indicator to the comprehensive evaluation of instruction and administration of HEU. To these ends, we have steadily increased our support to sharpen the students’ cutting edges respectively via bettered condition, upgraded activities, and extended access to the students. All these steps and measures have lent force to foster an innovative vein of HEU as the host of 2010 ACM/ICPC World Finals.

It is my earnest hope that all the contestants will take best advantage of this event to further widen their perspectives globally. While you are busy improving their professional skills in computer science and technology via this contest, please spare equal concern to your productive friendship investment. Simply, it is your wisdom and enthusiasm that would advance the development of computer education towards prosperity both locally and globally, which is of unique significance to human well-being.

As we all know, ICPC has been successfully held 33 times ever since 1970. I firmly believe that this contest is bound to be an unforgettable and unparalleled event under the strong support of Chinese government and the engaging guidance of distinguished experts and scholars, with the broad participation of computer fans from universities all over the world, and the warm concerns from news media and all walks of life. Definitely, 2010 World Finals hosted by HEU will be a great success!

Desen Yang, Ph.D.
Director of Organizing Committee
Vice President of Harbin Engineering University
Greetings from College of Computer Science and Technology of HEU

Welcome to Harbin, a beautiful City of Ice in Northeast China! On behalf of the College of Computer Science and Technology of Harbin Engineering University, I would like to extend my sincere congratulations to all the contesting teams on your getting to the 2010 ACM/ICPC World Finals, and wish you all would harvest brilliant achievements.

The College of Computer Science and Technology of HEU is a place for computer talents at all levels, including two undergraduate programs (computer science & technology and software engineering), one master's program (computer science & technology), one doctoral program (computer application technology), and one center for post-doctoral studies on computer science and technology. Our college boasts a faculty who bring to the college a depth and range of experience rarely matched provincially. Ever since its birth in 2005, the ACM programming team admitted by HEU has been trying its cutting edges in contests in Heilongjiang province, northeast China, and Asia, bringing home gratifying achievements. To our delight, ACM contesting event has entrenched itself firmly in HEU for further development in that talents for ACM class has already been founded to this end.

Our college is rich in contesting experience as a host since we have successfully hosted ACM contests consecutively in HEU, Heilongjiang province and Asian Trials. All the staff and faculty in the College of Computer Science and Technology of HEU will spare no effort to promise a smooth running of the 2010 World Finals with fully charged competence and confidence.

I sincerely wish 2010 ACM/ICPC World Finals a tremendous success.

Guisheng, Yin, Ph.D.
Dean of College of Computer Science and Technology
Schedule of Events
The 2010 ACM-ICPC World Finals
sponsored by IBM
Attendance: * Required attendance for Teams with On-Site Coach Accessible.
Team: Contestants    Coach: On-Site Coach    Coach++: All coaching staff
Team++: All registered with teams

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
<th>Location</th>
<th>Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:00</td>
<td>Team Registration</td>
<td>at your Hotel</td>
<td>Teams++</td>
</tr>
<tr>
<td>18:00</td>
<td>Welcome Reception: Come &amp; Go</td>
<td>at your Hotel</td>
<td>All attendees</td>
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<td>* Courtesy of IBM</td>
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<td></td>
<td>Clothing Distribution</td>
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<tr>
<td>06:00</td>
<td>Breakfast at your hotel</td>
<td>Inc. with room</td>
<td>All with badges</td>
</tr>
<tr>
<td>17:00</td>
<td>Team Excursion to Snow Sculpture Art Exposition</td>
<td>Sun Island Park</td>
<td>Teams++</td>
</tr>
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<td>Excursion to Snow Sculpture Art Exposition</td>
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<tr>
<td>18:00</td>
<td>Dinner</td>
<td>Shangri-La Hotel</td>
<td>Teams++</td>
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<td>* Courtesy of HEU</td>
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<tr>
<td>18:30</td>
<td>Welcome and Snow Sculpture Orientation</td>
<td>Shangri-La Hotel</td>
<td>All with badges</td>
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<tr>
<td>20:30</td>
<td>Transportation to Hotels</td>
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<td>7:30:00</td>
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<td>* Transportation</td>
<td>Your Hotel</td>
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<tr>
<td>8:30:00</td>
<td>10:30:00</td>
<td>* Opening Ceremony</td>
<td>Student Union Auditorium</td>
</tr>
<tr>
<td>11:00:00</td>
<td>12:30:00</td>
<td>* World Finals Orientation</td>
<td>Library Team Area</td>
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<tr>
<td>12:30:00</td>
<td>13:30:00</td>
<td>Lunch</td>
<td>Dining Hall</td>
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<td>17:00:00</td>
<td>ICPC Snow Sculpture</td>
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<td>IBM Technology Showcase</td>
<td>Student Union Lobby</td>
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<td>16:30:00</td>
<td>CLI Symposium 1 - Schedule</td>
<td>Academic Lecture Hall</td>
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<tr>
<td>16:30:00</td>
<td>17:30:00</td>
<td>Regional Contest Director's Business Meeting</td>
<td>Multifunction Activity Hall</td>
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<td>18:00:00</td>
<td>* Answers to World Finals Orientation questions</td>
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<td>20:00:00</td>
<td>UPE Dinner</td>
<td>Shangri-La Hotel</td>
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<td>* Courtesy of IBM</td>
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<td>Transportation to Excursion</td>
<td>Harbin Ice &amp; Snow World</td>
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<td>6:00:00</td>
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<td>7:00:00</td>
<td>8:00:00</td>
<td>* Transportation</td>
<td>Your Hotels</td>
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<tr>
<td>7:30:00</td>
<td>9:00:00</td>
<td>Teams and Spectators arrive</td>
<td>Library Auditorium</td>
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<tr>
<td>9:00:00</td>
<td>Noon</td>
<td></td>
<td>Library Auditorium</td>
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<tr>
<td>9:00:00</td>
<td>9:15:00</td>
<td>Spectators prepare to enter Spectator Gallery</td>
<td>Library Auditorium</td>
</tr>
<tr>
<td>9:15:00</td>
<td>9:30:00</td>
<td>* Contestants prepare to enter Library Team Contest Area</td>
<td>Library Foyer</td>
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<tr>
<td>9:30:00</td>
<td>Noon</td>
<td>* World Finals Dress Rehearsal</td>
<td>Library Team Area</td>
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<tr>
<td>Noon</td>
<td>13:00:00</td>
<td>Teams wear ICPC T-Shirts as outer layer.</td>
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<tr>
<td></td>
<td></td>
<td>Teams leave reference materials at workstations.</td>
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<tr>
<td>Noon</td>
<td>13:00:00</td>
<td>Regional Leadership Appreciation Luncheon</td>
<td>Dining Hall</td>
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<td>13:00:00</td>
<td>18:00:00</td>
<td>IBM TechTrek and Fun Activities</td>
<td>Student Union Auditorium</td>
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<td>13:00:00</td>
<td>17:00:00</td>
<td>CLI Symposium 2 - Schedule</td>
<td>Academic Lecture Hall</td>
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<td>15:30:00</td>
<td>17:00:00</td>
<td>IBM Technology Showcase</td>
<td>Student Union Auditorium</td>
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<td>Coaches Meet with Executive Director</td>
<td>Academic Lecture Hall</td>
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<td>18:00:00</td>
<td>Proposals for Future World Finals</td>
<td>Academic Lecture Hall</td>
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<td>* ICPC Challenge Tournament Dinner</td>
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<td>All with badges</td>
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<td>7:00:00</td>
<td>8:00:00</td>
<td>* Transportation to HEU</td>
<td>Your Hotel</td>
<td>All with badges</td>
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<tr>
<td>7:30:00</td>
<td>9:00:00</td>
<td>Teams and Spectators arrive</td>
<td>Library Auditorium</td>
<td>Public</td>
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<tr>
<td>9:00:00</td>
<td>15:00:00</td>
<td>ICPCLive Theater - Have fun and watch the World Finals</td>
<td>Library Auditorium</td>
<td>Public</td>
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<td>9:00:00</td>
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<td>* Spectators prepare to enter Spectator Gallery</td>
<td>Library Auditorium</td>
<td>Public</td>
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<td>9:15:00</td>
<td>9:30:00</td>
<td>* Contestants prepare to enter Library Team Area</td>
<td>Library Auditorium</td>
<td>Teams</td>
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<tr>
<td>9:30:00</td>
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<td>2010 ICPC World Finals</td>
<td>Team Area</td>
<td>Teams</td>
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<td>Noon</td>
<td>13:00:00</td>
<td>Coaches Appreciation Reception</td>
<td>Library Auditorium Foyer</td>
<td>All with badges</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Courtesy of HEU</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:00:00</td>
<td>15:30:00</td>
<td>Spectators move to Contest Floor for ICPCLive Wrap-up</td>
<td>Library Auditorium</td>
<td>Public</td>
</tr>
<tr>
<td>15:30:00</td>
<td>16:15:00</td>
<td>ICPCLive Wrap-up</td>
<td>Team Area</td>
<td>All with badges</td>
</tr>
<tr>
<td>17:00:00</td>
<td>18:30:00</td>
<td>* 2010 World Finals Awards Ceremony</td>
<td>Student Union Auditorium</td>
<td>Public</td>
</tr>
<tr>
<td>18:30:00</td>
<td>23:00:00</td>
<td>* ICPC Celebration</td>
<td>TBA</td>
<td>All with badges</td>
</tr>
</tbody>
</table>

**Hosted by IBM**

### Saturday February 6th

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Description</th>
<th>Location</th>
<th>Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00:00</td>
<td>9:00:00</td>
<td>Breakfast at your hotel</td>
<td></td>
<td>All with badges</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Teams checkout from hotel</td>
<td>at your hotel</td>
<td>All with badges</td>
</tr>
</tbody>
</table>
Activities

Welcome to Harbin
Volunteers from Harbin Engineering University will be on hand to provide transportation from Harbin Taiping International Airport (HRB) to the contest hotels.

Team Registration and Clothing Distribution
All teams and coaches must present themselves for registration at their hotel at the time selected by appointment. Registration is provided by UPE, whose representatives certify that team paperwork and notebooks comply with ICPC rules. In addition, UPE honors each team with $300. Teams from schools with UPE chapters receive an additional $450. Teams will also be presented with winter wear (coat, hat, gloves) courtesy of Harbin Engineering University.

IBM Welcome Dinner-Reception
This event features dinner and a chance to get to know the participants of the ACM-ICPC and will be held at your hotel.

Harbin Snow Sculpture Excursion
IBM transports you to the Harbin Snow Sculpture Park, the world's largest and most impressive display of snow sculpture, as part of the Harbin International Snow and Ice Festival.

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.
Activities

ICPC Snow Sculpture
Let the experts from Harbin teach you Tuesday night, and then on Wednesday, take your own chance to create your frosty masterpiece from the abundant snow in Harbin. Teams compete in a new whole way.

IBM Technology Showcase
Come meet some of the bright minds who work for IBM and see what the company is doing to help create a smarter planet at this information fair featuring prominent IBM researchers.

UPE Dinner Reception, courtesy of IBM
This event, hosted by IBM, features dinner and an evening of fun and interaction.

IBM TechTrek
IBM’s innovators lead the industry in developing interesting and important technology for the world’s needs. This event will include presentations on some fascinating IBM projects. Attendance is required for teams and coaches.

ICPC Challenge Tournament and Dinner
Located at Harbin Engineering University's Student Union, the teams who entered the ICPC Challenge in January will get to see their entry compete against other teams for bragging rights and prizes.
Activities

The World Finals
The time has come. One hundred 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.

Awards Ceremony
This required event will be held at Harbin Engineering University’s Student Union Auditorium. We will crown the ACM-ICPC World Champions and medal winners!

The World Finals Celebration sponsored by IBM
The place and activities are always a mystery. But the end result is always a phenomenally fun time for contestants and volunteers alike, hosted by ACM-ICPC sponsor IBM.

Cyber Café
Wireless access to the Internet is available in the Harbin Engineering University Student Union and the ssid is ICPC. Bring your laptops, PDAs, or smart phones to check e-mail and keep up with friends and family. Some computers with Internet access will be available to participants.

Art Exposition
On Tuesday afternoon, you will visit Sun Island Park, the world’s largest and most impressive display of snow sculpture, as part of the Harbin International Snow and Ice Festival.

Excursion to Harbin Ice and Snow World
On Wednesday evening, IBM transports you to the Harbin Ice and Snow World, the world's largest and most impressive display of ice sculpture, as part of the Harbin International Snow and Ice Festival.
The ACM International Collegiate Programming Contest sponsored by IBM and hosted by HEU - Harbin Engineering University

About the Contest
The ACM International Collegiate Programming Contest (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.

Since IBM became sponsor in 1997, the contest has increased over 800%. Participation has grown to involve twenty-two thousand of the finest students and faculty in computing disciplines from over 1,931 universities from 82 countries on six continents. 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 (September to November 2009)** – This past year, nearly 22,000 contestants from 1,931 universities from 82 countries on six continents competed at 242 sites.

- **World Finals (February 1-6, 2010, Harbin, China)** – One hundred three (103) world finalist teams will compete for awards, prizes and bragging rights in Harbin hosted by Harbin Engineering University. These teams represent the best of the 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.
Contest Growth

ACM, IBM, UPE, and Baylor University are thrilled that the contest continues to attract the best and brightest students from around the world with nearly 22,000 contestants from 1,931 universities in 82 countries competing this year. Since the beginning of IBM’s sponsorship in 1997, participation has increased over 800%.

World Finals 2010 – the final round for the 2009 Regionals

One hundred three (103) teams from regional contests servicing universities worldwide will qualify to advance to the World Finals to be held in Harbin, China, February 1-6, 2010. The World Finals is hosted by Harbin Engineering University. Recent medal winners in order of finish are:

- 2009 Gold: St. Petersburg University of Information Technology, Mechanics & Optics (Russia)
  Tsinghua University (China)
  St. Petersburg State University (Russia)
  Saratov State University (Russia)

- 2008 Gold: St. Petersburg University of Information Technology, Mechanics & Optics (Russia)
  Massachusetts Institute of Technology (U. S. A.)
  Izhevsk State Technical University (Russia)
  Lviv National University (Ukraine)

- 2007 Gold: Warsaw University (Poland)
  Tsinghua University (China)
  St. Petersburg University of Information Technology, Mechanics & Optics (Russia)
  Massachusetts Institute of Technology (U. S. A.)
About ACM
The Association for Computing Machinery (ACM) is a major force in advancing the skills of information technology professionals and students. ACM serves its global membership of 80,000 by delivering cutting edge technical information and transferring ideas from theory to practice. ACM hosts the computing industry’s leading Portal to Computing Literature. With its journals and magazines, special interest groups, conferences, workshops, electronic forums, Career Resource Centre and Professional Development Centre, ACM is a primary resource to the information technology field.

About IBM
IBM believes intelligence will change more aspects of human life, including the way people live, work, and govern themselves; the way services are ordered and delivered; and the way air, water and forests are protected. The world is already connected economically, technically and socially. However, being connected alone is not sufficient. The world needs new generations of talent, problem solvers and leaders to infuse intelligence into our life such as power grids, transportation, and food safety.

IBM is the world's largest information technology and service provider. IBM has 30,000 software engineers in more than 80 research and development laboratories around the globe, who focus on solving real-world business issues for customers in more than 170 countries. IBM offers software services and dynamic infrastructure for customers to manage their systems, processes and applications across standard platforms. IBM has customers in industries such as telecommunications, utility, retail, public service, health care, education, transportation, finance, insurance, petroleum, manufacturing, etc. IBM explores new services using technology such as Web 2.0, virtualization, social networking, RFID, and cloud computing for new enterprise data centers.
IBM’s Commitment
IBM’s sponsorship commitment to the ACM International Collegiate Programming Contest is part of a company-wide effort to advance the next generation of technology leaders and problem solvers who have combined skills of computing science and business management.

Harbin Engineering University’s Commitment
HEU is pleased to host the 2010 World Finals during our International Snow and Ice Festival. From point of arrival, to our finest hotels, to our spacious university campus, or to the Festival, we are committed to provide the finest of hospitalities to the 2010 World Finals. HEU is pleased to host the World Finals at our new library building.

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. 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.

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.
Past Winners

1977- Michigan State University
1978- Massachusetts Institute of Technology
1979- Washington University, St. Louis
1980- Washington University, St. Louis
1981- University of Missouri, Rolla
1982- Baylor University
1983- University of Nebraska, Lincoln
1984- Johns Hopkins University
1985- Stanford University
1986- California Institute of Technology
1987- Stanford University
1988- California Institute of Technology
1989- University of California, Los Angeles
1990- University of Otago
1991- Stanford University
1992- University of Melbourne
1993- Harvard University
1994- University of Waterloo
1995- Albert-Ludwigs-Universität Freiburg
1996- University of California, Berkeley
1997- Harvey Mudd College
1998- Charles University, Prague
1999- University of Waterloo

2000- St. Petersburg State University
2001- St. Petersburg State University
2002- Shanghai Jiao Tong University
2003- Warsaw University
2004- St. Petersburg Institute of Fine Mechanics and Optics
2005- Shanghai Jiao Tong University
2006- Saratov State University
2007- St. Petersburg University of Information Technology, Mechanics & Optics
2008- St. Petersburg University of Information Technology, Mechanics & Optics
2009- Warsaw University
Policies and Procedures for the ACM International Collegiate Programming Contest
Submitted: July 3, 2001
Approved by ICPC Executive Committee Action: Approved July 3, 2001 (8 for, 0 against, 1 on vacation)
Changes since May 21, 2001:
1. Renamed the ICPC Steering Committee to the ICPC Executive Committee to avoid confusion with the ICPC International Steering Committee
2. Renamed the ICPC Director the ICPC Executive Director to avoid confusion with site, regional, super regional directors, and other directors.
3. changed “best efforts” to reasonable efforts (in red)
4. added a section on changing the PPG (in red)

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.

Goals
Decisions shall be governed by the following goals:
Attract as many students as possible.
Attract as many colleges and universities as possible.
Draw from as many areas of the world as possible.
Provide equitable access to the ACM-ICPC World Finals.
Strive for competitive contests.
Involve industry and shine the spotlight on students.
Maintain and support the volunteer base.
Culture
Organization:
Promote regional integrity.
Provide global coordination.
Policy:
Keep it simple.
Serve, don’t rule.
Never have the same problem for the same reason.
Principles:
Put people first.
Follow the Golden Rule.
Solve all solvable problems; then resolve all resolvable problems; finally, avoid the rest.
Grow strong by resolving conflicts.

Membership and Tenure
The ICPC Executive Committee is composed of the ICPC Executive Director, the ICPC Secretary, the Director of Regional Contests, the Finals Director, the Director of Judging, and at most five but not less than two other members. The ICPC Executive Director serves as chair. The immediate past ICPC Executive Director shall continue for one year as an additional member of the ICPC Executive Committee.
The contest is managed at Baylor University under the direction of Dr. William B. Poucher who serves as the ICPC Executive Director. All other members of the ICPC Executive Committee are appointed by the ICPC Executive Director for renewable terms of office not to exceed two years. Every member of the ICPC Executive Committee shall have served for at least four years as a director, judge, or in some other critical volunteer management role, or shall be a sponsor representative. It is further expected that the ICPC Executive Director shall have served at least two years in organizing the ACM-ICPC World Finals.
In the event that the ICPC Executive Director cannot fulfill the duties of the office, the ICPC Executive Committee will select one of its members or a past ICPC Executive Director to assume those duties.

The ICPC International Steering Committee consists of the Director of Regional Contests who serves as chair, the ICPC Secretary, the Super Regional Directors, and at most five but not less than two other members. The ICPC Executive Director serves as an ex-officio member of this committee. The members of the committee other than the ICPC Secretary are appointed by the ICPC Executive Director upon the recommendation of the Director of Regional Contests for renewable terms of office not to exceed two years. Every member of the ICPC International Steering Committee shall have served for at least two years as a director, judge, or in some other critical volunteer management role, or shall be a sponsor representative.

The ICPC Executive Director makes all other appointments annually. An appointment to a committee or operational unit requires a recommendation from the committee chair or unit head. All appointees shall receive letters of appointment and annual recognition of service certificates. Every effort is made to continue those who have served, but not necessarily in the same role. The ICPC Executive Director may remove any appointee after consultation with those to whom the appointee reports.
Organization
The ICPC is a two-tiered competition among teams of students representing institutions of higher education. Teams compete in Regional Contests, from which top scoring teams advance to the ACM-ICPC World Finals. As determined by the ICPC Executive Committee, Regional Contests are grouped into Super Regions. Super Regional Champions and the overall ICPC World Champions are recognized at the ACM-ICPC World Finals. Gold, Silver, and Bronze medal winners are also recognized. The ICPC Executive Committee is responsible for establishing contest rules, policy, and guidelines. The ICPC Executive Committee shall operate independently in order to assure the integrity of the ICPC. The ICPC International Steering Committee establishes the Regional Rules within the context of the contest rules, resolves regional appeals, rules on internationalization issues, and recommends ways to make the contest more accessible and attractive to international participants. The ICPC International Steering Committee approves regional variations to the Regional Rules.

The ICPC Executive Director shall manage contest affairs, oversee budgetary matters, and assure conformance with policies, procedures and sponsoring agreements. The ICPC Executive Director allocates, disburses, and authorizes the expenditure of all ICPC funds in consultation with affected ICPC leadership and in accordance with sponsoring agreements.

The ACM-ICPC World Finals and Regional Contests are organized and directed by their respective directors. The Director of Judging is responsible for the oversight of past contest problems and defining the problem domain. The Finals Chief Judge supervises judging and resolves judging exceptions during the World Finals. The Director of Judging and Finals Chief Judge recruit and recommend judges and work together with them to formulate problems and establish judging criteria for the ACM-ICPC World Finals. Super Regional Directors are responsible for recruiting and recommending the appointment of Regional Contest Directors and coordinating their efforts with the ACM-ICPC World Finals.
Rules
Contest Rules are determined by the ICPC Executive Committee in conjunction with the ICPC International Steering Committee and will be published within one week of the previous year's ACM-ICPC World Finals. These rules are interpreted and enforced by the ICPC Executive Director. If unforeseen circumstances dictate a rules change, the ICPC Executive Director shall make reasonable efforts to confer with affected parties before making such a change.

ACM-ICPC World Finals
The ACM International Collegiate Programming Contest World Finals, hereinafter called the "World Finals," is an event held each year, typically during the month of March. Teams competing in the World Finals are selected from teams competing in Regional Contests. The World Finals is organized and administered by the ICPC Executive Director who also negotiates and arranges for World Finals facilities, activity meeting space, and hotel room accommodations. The ICPC Executive Director shall coordinate with the sponsor to assure availability of suitable space for sponsor events and activities. If the event is hosted by a conference, a letter of agreement shall be executed identifying all space and setup requirements and registration requirements as part of the joint agreement.

The Finals Director is responsible for the conducting of the World Finals competition within the Contest Rules and guidelines established by the ICPC Executive Committee. The Director of Regional Contests is responsible for conducting the Regional Contest Directors' Symposium, the Regional Contest Directors' Meeting, and the ICPC International Steering Committee Meeting.
Regional Contests
Regional Contests are held each year according to the Regional Contest Rules, typically no later than the Sunday following the third Saturday in November. Each Regional Contest is organized and operated by a Regional Contest Steering Committee, chaired by a Regional Contest Director who appoints the members. At least one of the members must be a faculty or staff member from another university willing to host a Regional Contest in the future.

The ICPC Executive Director appoints Regional Contest Directors at the recommendation of the Director of Regional Contests. Each Regional Contest Steering Committee localizes the Regional Rules for its own Regional Contest, subject to approval by the Director of Regional Contests. There must not be any deviation in eligibility criteria or in the process for appeal. It is presumed that regional contest rules will not deviate significantly from the Contest Rules so that teams might not be at a disadvantage when competing in the ACM-ICPC World Finals.
Funding of Regional Contests
Regional Contests are financially autonomous, ACM-ICPC-branded events of the host institutions. Nevertheless, Regional Contests must submit budgets for review to assure that funding and expenses are reasonable and that all sponsorship requirements are met, before administrative and logistical support for the Regional Contest may commence. All Regional Contests must award ICPC certificates, use ICPC badges, and provide conforming ICPC T-shirts. All Regional Contests must comply with ICPC sponsoring agreements regardless of whether ICPC or sponsor funding is provided.

Upsilon Pi Epsilon
Upsilon Pi Epsilon, the International Computer Science Honor Society, has supported the ICPC longer than any other society. UPE sponsors awards for all ICPC World Finalists. UPE traditionally hosts a reception or luncheon for contest participants the day preceding the ACM-ICPC World Finals. The ICPC shall provide space and the basic set up for the UPE business meeting and reception or luncheon at no charge. The basic set up includes chairs, tables, risers, dais, and house microphone. Any other set up or decoration is at UPE expense.

Sponsorship of the Contest
The ICPC Executive Director shall notify contest volunteers in a timely manner of requirements to comply with ICPC sponsoring agreements. Every effort shall be made to preserve sponsor benefits.

Modifying the Policies and Procedures
These Policies and Procedures may only be modified by a 2/3 vote of the ICPC Executive Committee. The current Policies and Procedures shall be posted at the ICPC Web Site.
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IBM is the world’s largest information technology and service provider. IBM has 30,000 software engineers in more than 80 research and development laboratories around the globe, who focus on solving real-world business issues for customers in more than 170 countries. IBM offers software services and dynamic infrastructure for customers to manage their systems, processes and applications across standard platforms. IBM has customers in industries such as telecommunications, utility, retail, public service, health care, education, transportation, finance, insurance, petroleum, manufacturing, etc. IBM explores new services using technology such as Web 2.0, virtualization, social networking, RFID, and cloud computing for new enterprise data centers.
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Rules for the ACM International Collegiate Programming Contest

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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 that is typically held in March or April. Additional high-ranking teams may be invited to the World Finals as Wild Card teams. 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
The World Finals will be held in Harbin China on Friday, February 5, 2010. Teams will arrive by Monday, February 1, 2010 and depart on or after Saturday, February 6, 2010. The Schedule of Events will be posted by December 1, 2010.
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. 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.

Qualifying teams requiring visas must initiate the process of applying for visas within 10 business days of being issued an invitation. 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. 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 stationary 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, the Practice Session, the World Finals, and the Awards Ceremony.

Support and Prizes
Each finalist team will be provided with hotel accommodations for the coach and three contestants for five nights, arriving four days before the World Finals and departing the day after. The hotel accommodations will be two separate sleeping rooms, with a third room for gender privacy if necessary. 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.

The UPE Computer Science Honor Society provides $300 to each World Finals team, plus an additional $450 to teams representing institutions with UPE chapters or who are in the process of establishing UPE chapters.

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.

The highest scoring team is the World Champion and will receive the World Champion Cup and plaques. The North American Champions, the Latin American Champions, the European Champions, the South Pacific Champions, the Asian Champions, and the Africa & Middle East Champions will be presented plaques.

The World Champion team will be awarded $10,000. Each of the other three Gold Medal teams will be awarded $3,000. Each Silver Medal team will be awarded $2,000. Each Bronze Medal team will be awarded $1,000. In the event of a tie, benefits of the affected places will be pooled and distributed evenly among the tying teams.
Conduct of the Finals
Eight 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, and C/C++. 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/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. Each team will be permitted to provide a PDF file of up to 25 pages of notes within the limits described at the Team Notebook.

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.
Wenxin Li
Peking University
for creating a popular on-line judge and a large problem bank in China.

Wenhu Wu
Tsinghua University
as a great scholar for moving China colleges and universities into the global ICPC Community.

Katsuhiro Kakehi
Waseda University
for leading all Japan universities into the global ICPC Community.

Mohammad Ghodsi
Sharif University of Technology
for substantial growth in Iran and for leading the Iran universities into the global ICPC Community for all these years.

Wei Xu
Shanghai University
as a pioneer in running PC’2 and ICPC management software for the contest in China in 1996 and for many years thereafter.

Kiyoshi Ishihata
Meiji University
for driving Japanese judges to prepare high quality problems and supporting Asia regional contest sites and the World Finals in Tokyo.

Abul L. Haque
North South University
for being the first host university (HSU) and leading the efforts among Bangladesh universities in the Asia Region.

Greg C. Lee
National Taiwan Normal University
for continuing effort and long-term ICPC growth in Taiwan.

Kyung-Yong Chwa
Korea Advanced Institute of Science and Technology
for uniting effort and steady ICPC growth in Korea.

Phalgungi Gupta
Indian Institute of Technology, Kanpur
for steadfast effort and steady ICPC growth in India.
acm Programming Contest
sponsored by IBM

The 2010 UPE Outstanding International Service Award

Presented to

Baylor University Computer Science

in appreciation for distinguished service to the world's universities by hosting the ICPC Headquarters and for extraordinary support for the

2010 ACM-ICPC World Finals

- 5 February 2010
  Harbin, China

The Thirty-fourth Annual acm International Collegiate Programming Contest
sponsored by IBM

The 2010 UPE Distinguished International Service Award

Presented to

Harbin Engineering University

in honor of the university's accomplishment by her teams, by hosting regional contests, and culminating as University Host of the

2010 ACM-ICPC World Finals

- The UPE Distinguished International Service Award is presented annually to an institution that has played an instrumental role in the success of international educational programs for ten or more years.
- 5 February 2010
  Harbin, China
Dr. Wei-Min Zhou has championed ACM-ICPC growth in China since 1996. He has served in various roles as regional chief judge and mentor for new regional contest host sites.

When the ACM-ICPC Council-China was organized, Dr. Zhou was appointed Secretary General of the Council. He played a key role in this organization, and registration and participation have grown rapidly in mainland China in recent years.

With more than 4500 teams participating in various levels of ACM-ICPC China contests today, Dr. Zhou's continuing enthusiastic efforts are one of the most important factors in the success of ACM-ICPC in Asia, especially in China.
Asia First Award

presented to

The first university to send an Asia team to ACM-ICPC World Finals:

National Chiao Tung University

Established in 1958, National Chiao Tung University (NCTU) in Taiwan, offers 15 bachelor, 41 masters and 29 doctoral degree programs. NCTU attracts students from more than 36 countries. NCTU leads industry collaboration and receives most of the research funding in Taiwan. Located near national laboratories and the Hsinchu Science Based Industrial Park, NCTU provides students opportunities to collaborate with top high-tech companies and participate in leading technology experiments. In addition, 64% of CEOs and general managers in Hsinchu Science Park are NCTU alumni.

NCTU was the first university to send an Asia team to the ACM-ICPC World Finals 1991 in San Antonio that laid the ground work for the growth of today’s ACM-ICPC Asia Contests.
The 2010 ACM-ICPC World Finals List by Regions
(In alphabetical order by region)

Africa and the Middle East
Faculty of Computers and Information, Cairo University
The British University in Egypt
American University of Beirut
University of Cape Town

Asia
Bangladesh University of Engineering and Technology
Beijing Jiaotong University
Beijing University of Posts and Telecommunications
Fudan University
Fuzhou University
Guangdong University of Technology
Hangzhou Dianzi University
Harbin Engineering University
Harbin Institute of Technology
National University of Defense Technology
Peking University
Shanghai Jiaotong University
South China Agricultural University
Southeast University
Tsinghua University
University of Electronic Science and Technology of China
Wuhan University
XiDian University
Zhejiang University
Zhejiang University of Technology
Zhongshan (Sun Yat-sen) University
Chinese University of Hong Kong
DJ Sanghvi College of Engineering
International Institute of Information Technology - Hyderabad
National Institute of Technology, Trichy
Amirkabir University of Technology
Sharif University of Technology
Kyoto University
University of Tokyo
KAIST
Seoul National University
Sogang University
University of the Philippines - Diliman
National University of Singapore
National Chiao Tung University
National Taiwan University
Ho Chi Minh City University of Science

Egypt
Egypt
Lebanon
South Africa
Bangladesh
China
China
China
China
China
China
China
China
China
China
China
China
Hong Kong
India
India
Iran
Iran
Japan
Korea, Republic of
Korea, Republic of
Korea, Republic of
Philippines
Singapore
Taiwan
Taiwan
Vietnam
Europe & the Russian Federation

Belarusian State University  
Friedrich-Alexander-University Erlangen-Nuremberg  
Universitat Politècnica de Catalunya  
University of Helsinki  
École Normale Supérieure ULM  
University of Warsaw  
University of Wroclaw  
Izhevsk State Technical University  
Moscow State University  
Novosibirsk State University  
Petrozavodsk State University  
Samara State Aerospace University  
Saratov State University  
St. Petersburg State University  
St. Petersburg State University of IT, Mechanics and Optics  
State University - Higher School of Economics  
Ufa State Technical University of Aviation  
Ural State University  
KTH - Royal Institute of Technology  
National Technical University "Kharkiv Polytechnic Institute"  
Taras Shevchenko Kiev National University

Belarus  
Germany  
Spain  
Finland  
France  
Poland  
Poland  
Russian Federation  
Russian Federation  
Russian Federation  
Russian Federation  
Russian Federation  
Russian Federation  
Sweden  
Ukraine  
Ukraine

Latin America

Facultad de Matemática - Astronomía y Física (UNC)  
Universidad de Buenos Aires - FCEN  
Universidad Nacional de La Plata  
Institute of Computing - University of Campinas  
Instituto de Matemática e Estatística da Universidade de São Paulo  
Instituto Tecnológico de Aeronáutica  
Pontificia Universidad Católica do Rio de Janeiro  
Universidade Federal de Pernambuco  
Universidade Federal de Santa Catarina  
Universidade Federal de Sergipe  
Universidad de los Andes  
Universidad Central Marta Abreu de las Villas  
ITESM Campus Queretaro  
Universidad de Guanajuato  
Universidad Simón Bolívar

Argentina  
Argentina  
Argentina  
Brazil  
Brazil  
Brazil  
Brazil  
Brazil  
Colombia  
Cuba  
Mexico  
Mexico  
Venezuela
North America

University of British Columbia  Canada
University of Waterloo  Canada
Columbia University  Canada
Cornell University  United States
Duke University  United States
Florida Institute of Technology  United States
Harvey Mudd College  United States
Massachusetts Institute of Technology  United States
Northwestern College  United States
Stanford University  United States
The University of Texas at Austin  United States
University of Central Florida  United States
University of Kentucky  United States
University of Maryland  United States
University of Michigan at Ann Arbor  United States
University of North Texas  United States
University of Rochester  United States
University of Wisconsin - Madison  United States

South Pacific

The University of Western Australia  Australia
University of Canterbury  New Zealand
TEAM Rostr

Africa and the Middle East

American University of Beirut
Nagi Nahas, Coach
Mario Ghandour Achkar
Jad Hachem
Oussama Hariz

Faculty of Computers and Information, Cairo University
Mohamed Abd El-Wahab, Coach
Ahmed Mohammed Abdelsadek
Mohammad Refaat
Amr Samir

The British University in Egypt
Ghada Alaa, Coach
Ayman Abdelaziz
Tamer ElDeeb
Mamdouh Tawfik

University of Cape Town
James Gain, Coach
Keegan Carruthers-Smith
Muhammad Saadiq Moolla
Max Rabkin

Asia

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Mohammadjavad Rezayee Seraji
Pooya Zafar Asadollahpoor

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Tanaeem M. Moosa
Tasnim Imran Sunny

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Tianyu Lou
Nanzhu Wang

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Ming Fang, Coach
Jie Fan
Wang Kun
Zhenhao Zhang

Chinese University of Hong Kong
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Chun Ho Hung
Cheuk Ting Li
Wai Hon Law

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Neepa Shah, Coach
Krunal Manik
Purav Shah
Pratik Tandel
Fudan University
Yonghui Wu, Coach
Xiaocheng Hu
Mingyun Li
Yi Yang

Guangdong University of Technology
Tao Han, Coach
Haochuan Cui
Wei Dai
Jinghao Li

Harbin Engineering University
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Guang Hu
Jiaming Xu
Zhe Yuan

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Hoang Nam Le Do
Tuan Vu Pham
Dang Khoa Trinh Tran

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Taejin Chin
YoungWoon Lee
Wonha Ryu

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Zhichun Wu
Xilin Zhang

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Hao Hu
Keqiao Lou
Tianya Zhou

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Haochen Chen
Zilong Lu
Yu Sun

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Stefan Kendall
University of Maryland
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Alan Jackoway
Mitchell Katz
Richard Matthew McCutchen

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Hanson Wang
Wei Nan Wen
Gelin Zhou

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Zhongxia Zhou

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Daniel Hooper
James Pascoe

University of Virginia
Aaron Bloomfield, Coach
Calvin Li
Briana Satchell
George Washington

University of Wisconsin - Madison
Dieter van Melkebeek, Coach
David He
Christopher Hopman
Zef RosnBrick

South Pacific

The University of Western Australia
Luigi Barone, Coach
Peter Alexander
Alexander Mathews
Evgeni Sergeev

University of Canterbury
Tim Bell, Coach
Edwin Flores
Joseph Scarr
Thomas Steinke
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IBM Toronto Software Laboratory
IBM/ICPC Sponsorship Manager

**Douglas Heintzman**
IBM Corporation, Director of Strategy, Lotus SW
IBM/ICPC Sponsorship Executive

**Sponsorship Team**

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IBM Toronto SW Laboratory, IBM Technology Team

**Amanda Carl**
IBM Media Relations Team

**Steve Dale**
IBM Corporation, IBM Recruiting

**Tim Deboer**
IBM Toronto SW Laboratory, IBM Systems Team

**Rodney D'Silva**
IBM Toronto SW Laboratory, IBM Systems Team Leader

**Scott Gilmore**
IBM Events Team

**Mark Guan**
IBM Corporation, Media Relations Team Lead

**Len Hallke**
IBM Events Team

**Chris Kale**
IBM Toronto SW Laboratory, IBM Systems Team

**Debbie Kilbride**
IBM Toronto SW Laboratory,
IBM/ICPC Sponsorship Program Administrator
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IBM Toronto SW Laboratory, IBM Communications

Kim O’Connell
IBM Events Team

Tracey Santilli
IBM Media Relations Team

Meredith Setzman
IBM Media Relations Team

Patrick Sweitzer
IBM Toronto SW Laboratory, IBM Systems Team

Mary Taylor
IBM Corporation, IBM Technology Team

Emilia Tung
IBM Toronto SW Laboratory, IBM Communications

Jo Zacharie
IBM Events Team

World Finals Team

Wanida Anunpreechakorn
IBM Events Team

Paulette Hopkins
IBM Events Team

Wenbin Ma
IBM Toronto SW Lab, IBM Systems Team

Robin Patton
IBM Events Team

Ron Sebastian
IBM Technology Team

Lan Shan
IBM China, IBM Media Relations Team

Brian Taylor
IBM Corporation, IBM Technology Team

Tim Willeford
IBM Corporation, IBM Media Relations Team
2010 World Finals Staff and Volunteers

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Eslam Mohamed Wageed Abd Elaal, Cairo World Finals Committee
Ekram Fathy Abdel-Gawad, Cairo World Finals Committee
Roy Andersson, Subcontest Manager
Samir Ashoo, SysOps Team
Mikael Auno, CLICS – ICPC Live Developer
Per Austrin, World Finals Judge
Osman Ay, World Finals Judge
Radu Berciu, ICPC HQ – Global Services
John Bonomo, World Finals Judge
Bill Booth, CLIS Chief Editor
Troy Boudreau, SysOps Team
Stephen Bourne, ACM President Emeritus
Corey Carbonara, ICPC Digital Media
Carlos Marcelino Casas Cuadrado, CLI - ICPC On-line Judging
Tomáš Černý, ICPC HQ Global Services
Henry Chan, ICPC Photographer
James Comer, Associate Director
Marjene Comer, ICPC HQ Staff
Mattias de Zalenski, CLICS – ICPC Live Developer Lead
Joseph DeBlasi, ICPC Awards Committee
Krzystof Diks, Warsaw World Finals Committee – Co-Chair
Hans Domjan, ICPC Digital Media Production
Jeff Donahoo, ICPC HQ Services Director; Deputy Executive Director
Lisa Donahoo, ICPC Digital Media Production
Brent Edwards, ICPC Baylor Host
Yousry S. Elgamal, Cairo World Finals Committee
Roman Elizarov, ICPC Secretary
Emma Enström, CLICS – Kattis Developer
Matts Erixon, ICPC Live – Technical Director
Mohamed Mohamed Ahmed Fouad, Cairo World Finals Committee
Elias Freider, CLICS – Kattis Developer
Marc Furon, CLI - Problem Pooling
Don Gaitros, World Finals Marshal
Vicki Gaitros, Registrar Assistant
Mikael Goldmann, CLICS – Kattis Developer
Engy Badr El Din Hamed, Cairo World Finals Committee
Andrew Harrington, World Finals Judge
Fredrik Heintz, ICPC Live Analyst
David Hill, ICPC Photographer
Sharon Humphrey, ICPC Registrar
Patrick Hynan, ICPC Operations - Director
Marcus Isaksson, ICPC Live – Analyst
Ossama Mohamed Mohamed Ismail, Cairo World Finals Committee
Martin Kacer, World Finals Judge
Ben Kelley, ICPC HQ Steering Committee
Derek Kisman, World Finals Judge
Peter Kluit, World Finals Judge
Claus Knudsen, ICPC Live – Producer
Georgiy Korneev, St. Petersburg World Finals Committee
Michael Korpi, ICPC Digital Media Producer
Zachary Korpi, ICPC Digital Media
Gunnar Kreitz, CLICS – Kattis Developer Lead
Vladimir Kuznetsov, CLI - Workshop Camps
Mikael Lagerkvist, CLICS – Kattis Developer
Douglas Lane, SysOps Team
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Niklas Lind, ICPC Live - Mixing
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Shahriar Manzoor, World Finals Judge
Jimmy Mårdell, ICPC Live - Analyst
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Robert Roggio, ICPC Registration
Kevin Rooney, ICPC HQ Global Services
Robert Roos, World Finals Judge
Matthias Ruhl, World Finals Judge
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Sinout Delwar Shenouda, Cairo World finals Committee
Fernando Silva, CLI – Porto Contest Systems
Brian Sitton, SysOps Team
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Ria van Ouwerkerk, ICPC ISC Secretary
Trent Voigt, Baylor ECS Advocacy Board
Hui Wang, ICPC Guest Manager Assistant
Stanley Wileman, World Finals Judge
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Angela Wu, ICPC Registration
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Linda Marshall, Africa & the Middle East South Africa
Ziad Najem, Africa & the Middle East Arab & North Africa
Vallath Nandakumar, Asia Amritapuri
Ali Orooji, North America
Vladimir Parfenov, Europe Northeastern & Russian Federation
Kris Rudin, North America Pacific Northwest
Ed Skochinski, North America Southern California
Heinrich Stamerjohanns, Europe Northwestern
Ryan Stansifer, North America Southeast USA
Nicola Tapus, Europe Southeastern
Isaac Traxler, North America South Central USA
Kathryn Traxler, North America South Central USA
Paul Tymann, North America Northeast
Stanley Wileman, North America North Central
Minsheng Wu, Asia Fuzhou
Chang-Biau Yang, Asia Kaohsiung – Co-Director
Desen Yang, Asia Harbin
Jianxing Yu, Asia Tianjin
Sablin Yusuf, Asia Jakarta
Yi Zhang, Asia Chengdu
Regional Contest Support

Ricardo de Oliveira Anido, Latin America - Chief Judge
Magaz Asanov, Europe Northeastern Subcontest – Director
Rodolfo Azevedo, Latin America South America/Brazil – Finals Director
John Buck, North America Greater New York - Chief Judge
Jianmin Chen, Asia Fuzhou - Committee
Wenzhong Cheng, Asia Fuzhou – Committee
Jianwu Dang, Asia Tianjin – Assistant Director
Cassio de Campos, Latin America South America/Brazil - Systems Manager
Zhenzheng Fang, Asia Fuzhou – Vice-Director
Todd Feil, North America East Central – Chief Judge
Donna Furon, North America Southern California - Registrar
Zeinab Ghodsi, Asia Tehran - Assistant to Director
Trino Gomez, Latin America South America/North Venezuela – Director
Kiyoshi Ishihata, Asia - ACM Japan Board
Fuyuki Ishikawa, Asia Tokyo – Vice-Director
Alexander Klenin, Europe Northeastern - Support
Jan Kubr, Europe Central CTU Open – Director
Dong Mei Li, Asia Provincial-National Contests – Coordinator
Shiping Lin, Asia Fuzhou - Committee
Ying-Dar Lin, ACM-ICPC Taiwan Council Chair
Kaichang Liu, Asia Fuzhou – Committee
Teddy Mantoro, Asia Kuala Lumpur – Associate Director
Kim Min, Asia Seoul - Supporter
Mu Niu, Asia Fuzhou – Committee
Jung-Heum Park, Asia Seoul Chief Judge
Katsiaryna Paziura, Europe Northeastern Subcontest – Director
Jian Peng, Asia Chengdu – Assistant Director
Yen Lina Prasetio, Asia Jakarta Coordinator
Haifu Qu, Asia Tianjin – Assistant Director
Charles Riedesel, North America North Central - Site Director
Dovier Antonio Ripoll Mendez, Latin America Mexico & Central America
Cuba - Director
Philip Robbins, South Pacific – Manager
Jefery Roberts, North America Southern California – Judge
Xiaolin Shan, Asia Tianjin – Assistant Director
Nan Sheng, Asia Regional Supporter
Anand Shenoy, Asia Amritapuri - Associate Director
Guillermo Solis, Latin America South America/North Venezuela - Assistant Director
Jan Stoklasa, Europe CTU Open – Judge
Alejandro Strejilevich de Loma, Latin America South America/South Argentina – Chief Judge
Sun-Teck Tan, Asia – Regional Supporter
David Van Brackle, North America Southeast USA - Chief Judge
Denis Vlasov, CLI - Competitive Training Camps
Wenjun Wang, Asia Tianjin – Assistant Director
Yingjie Wu, Asia Fuzhou – Coordinator
Wei Xiong, Asia Chengdu – Assistant Director
Bin Xu, Asia Tianjin – Assistant Director
Hairong Ye, Asia Hangzhou – Coordinator
Ruiguo Yu, Asia Tianjin – Chief Coordinator
Jingshan Yu, Asia Harbin – Chief Coordinator
Wei-Min Zhou, Asia – ACM-ICPC Council China – Secretary General
Zhikai Zhou, Asia - ACM-ICPC Council China – System Support
Jie Zuo, Asia Chengdu – Assistant Director
ICPC Award Recipients

Wei-Min Zhou, 2010 Mark Measures Distinguished Service Award
Kyung-Yong Chwa, Asia Outstanding Contribution Award
Mohammad Ghodsi, Asia Outstanding Contribution Award
Phalgungi Gupta, Asia Outstanding Contribution Award
Abul L. Haque, Asia Outstanding Contribution Award
Kiyoshi Ishihata, Asia Outstanding Contribution Award
Katsuhiko Kakehi, Asia Outstanding Contribution Award
Greg Lee, Asia Outstanding Contribution Award
Wenxin Li, Asia Outstanding Contribution Award
Wenhu Wu, Asia Outstanding Contribution Award
Wei Xu, Asia Outstanding Contribution Award

ACM Team

Alain Chesnais, ACM – Vice-President
Cindy Ryan, ACM – HQ Coordinator

UPE Team

James Comer, Executive Council Member
Orlando Madrigal, Executive Director
Ali Orooji, Executive Council Member
Bill Poucher, Alumni Representative
Robert Roggio, International President
Angela Wu, Ex-officio Council Member
Competitive Learning Institute

Samir Ashoo
Per Austrin
Radu Berciu
Bill Booth, Chief Editor
Troy Boudreau
Carlos Marcelino Casas Cuadrado
Tomaš Černý
Tim deBoer
Jeff Donahoo
Roman Elizarov
Mats Erixon
Marc Furon
C. J. Hwang
Pat Hyman
Derek Kisman
Vladimir Kuznetsov
Douglas Lane
José Paulo Leal
Rujia Liu
Shahriar Manzoor
Ziad Najem
Fredrik Niemelä
William B. Poucher
Miguel Revilla
Miguel A. Revilla
Kevin Rooney
Fernando Silva
Brian Sitton
David Sturgill
Victor Vasiliev
Denis Vlasov
Jing Yang
2010 World Finals Staff and Volunteers

HEU Staff

HEU Harbin Engineering University

Desen Yang
Fenglian Zhao
Lin zhao
Conghui Zheng
Guisheng Yin
Rumin Li
Guoyin Zhang
Wang Cong
Xinji Pan
Jingwei Yin
Jingwei Yin
Zhiqiang Liu
Wen Liu
Yuyan Dong
Shifan Zhu
Xuebin Jin
Yu Zhu
Qingbin Zhang
Yan Chen
Miao Chi
Xiang Yu
Yongyou Wang
Shaobin Huang
Lianfa Li
Yushen Wang
Hongmin Zhang

HEU Staff

Visa Application
Lijun Zhang
Yansheng Mao
Zhiwei Zhu
Jie Gao
Yanlin Zhou

Registration & Transportation

Hongfang Sun
Zhiguo Men
Jun Du
Yun Zhang

Opening & Awards Ceremony

Heng Chen
Yanjun Wu
Jian Wan
Junlong Zhang
Zhen Yang
Ran Pei
Shi Guo
HEU Staff

Visa Application
Zhaoqun Du
Tao Zhao
Guangyu Liu
Yong Li

World Finals Site
Yongchun Zhang
Shusheng Liu
Wenwei Han
Yuning Zhao

Meeting & Food
Xinshi Feng
Zhuo liu
Guiying Sun
Xifeng Peng

Publicity & Digital Media
Shimei Zhang
Sheng Jin
Yi Luo
Zhijun Liu
Xiaoyu Dai
Weiping Ouyang

Network & Equipment Debugging
Xiaoning Feng
Dapeng Lang
Zhiqiang Ma
Linshan Shen

Volunteers Organizing
Rongsheng Li
Feng Guo
Daofu Mu
Fujun Zhang
Xiangji Meng
1. American University of Beirut
2. Amirkabir University of Technology
3. Bangladesh University of Engineering and Technology
4. Beijing Jiaotong University
5. Beijing University of Posts and Telecommunications
6. Belarusian State University
7. Carnegie Mellon University
8. Chinese University of Hong Kong
9. Columbia University
10. Cornell University
11. DJ Sanghvi College of Engineering
12. Duke University
13. école Normale Supérieure ULM
14. Facultad de Matemática-Astronomía y Fisica(UNC)
15. Faculty of Computers and Information, Cairo University
16. Florida Institute of Technology
17. Friedrich-Alexander-University Erlangen-Nuremberg
18. Fudan University
19. Fuzhou University
20. Guangdong University of Technology
21. Hangzhou Dianzi University
22. Harbin Engineering University
23. Harbin Institute of Technology
24. Harvey Mudd College
25. Ho Chi Minh City University of Science
26. Institute of Computing-University of Campinas
27. Instituto de Matemática e Estatística da Universidade de S?o Pau
28. Instituto Tecnológico de Aeronáutica
29. International Institute of Information Technology-Hyderabad
30. ITESM Campus Queretaro
31. Izhevsk State Technical University
32. Korea Advanced Institute of Science and Technology
33. KTH-Royal Institute of Technology
34. Kyoto University
35. Massachusetts Institute of Technology
36. Moscow State University
37. National Chiao Tung University
38. National Institute of Technology, Trichy
39. National Taiwan University
40. National Technical University "Kharkiv Polytechnic Institute"
41. National University of Defense Technology
42. National University of Singapore
43. Northwestern College
44. Novosibirsk State University
45. Peking University
46. Petrozavodsk State University
47. Pontificia Universidad Catolica do Rio de Janeiro
48. Samara State Aerospace University
49. Saratov State University
50. Seoul National University
51. Shanghai Jiao Tong University
52. Sharif University of Technology
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<td>Zhongshan(Sun Yat-sen) University</td>
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Harbin Engineering University

Harbin Engineering University (HEU) holds a unique position in the People’s Republic of China and a growing reputation internationally. It is the only “key” university to combine an engineering focus with the science, management, and arts of the shipping industry in China. It is also among the group of elite schools being enhanced according to the national “Project 211”, which provides engaging support to universities striving to meet the ever-changing demands of the 21st century.

Since its founding in 1953, HEU has nurtured tens of thousands of highly-qualified, talented graduates. In 1970 it was named Harbin Ship Engineering College, and in 1994 it was renamed Harbin Engineering University to reflect its widening focus.

HEU—A Comprehensive University
• 16 colleges
• 6 national first-level doctoral disciplines
• 25 specialties for doctoral candidates
• 95 specialties for master candidates
• 57 specialties for undergraduates
• 7 national key laboratories, plus 42 additional research laboratories
• 44 nationwide partnerships for students to receive advanced practical training

HEU is making unremitting efforts to connect with and learn from the world. Over 1,000 faculty members have been sent abroad to study or conduct research in more than 30 countries, including the United States, Canada, Japan, Germany, Great Britain, France, Italy, Spain, and Belgium. To further raise the university’s teaching and research levels, HEU has attracted respected universities nationally and internationally, as well as scientific research institutes, to join in the construction of a high-tech research and software center.

In addition, HEU is actively developing exchange and cooperative relationships with academic institutions in other countries and across China. So far, it has signed over 20 agreements, involving: (1) mutual visits of presidents; (2) mutual visits and exchanges of faculty members; (3) cooperative research; (4) hosting international workshops; (5) cooperative education. These and other cooperative efforts not only add to the strength of the HEU academic staff but they enhance and economically benefit a variety of disciplines and departments.

This new era of international exchanges also extends to students themselves. Since the early 1980s, HEU has attracted students from the United States, Korea, and other countries. The university is committed to this program and will further strengthen this area of international exchange and cooperation by expanding its academic offerings and improving their quality.

As Harbin Engineering University passes its half-century mark, it continues to press forward—focusing on its core strengths that serve the defense and shipping industries, as well as ocean exploration. At the same time, the university is striving to train innovative and sharply-edged students across all the disciplines; graduates are creating top-level scientific achievements and truly turning HEU into an international university.
Harbin Engineering University is defining her distinctive position in the nation's development strategy by specializing in shipping industry, ocean exploration and nuclear application. By also leading a series of reforms in teaching, scientific research and information management systems, Harbin Engineering University is expanding her role as China's premier comprehensive international university now and into the 21st century.

http://www.hrbue.edu.cn