Under the High Patronage of His Majesty King Mohammed VI of Morocco
2015 World Finals Morocco

acm International Collegiate Programming Contest

IBM event sponsor

مرحبا بكم في المغرب

Welcome to Morocco
Dear guests,

I am pleased to welcome you in Marrakech.

I am glad that the World Finals is taking place in one of the most vibrant Arab and African cities.

You have chosen to specialize in a field that offers you opportunities, not only for achieving professional goals but for contributing to the development of human life at large. It is thanks to brilliant experts like you that new ideas will generate and diffuse worldwide.

Advancing to World Finals is already a great achievement. There is no doubt that your talent, hard work, and creativity will lead you through the complex challenges of this competition. However, the most important gain for you is not to win the contest, but to excel in an environment of high competition, great diversity, and new challenges.

I wish every single one of you the best of luck, and I am confident that being in Marrakech will provide you with a different perspective and insight in proving, once again, that you are the best programmers in the world.

Abdel-Ilah Benkirane
The Head of Government
Kingdom of Morocco

Welcome to Marrakech, Welcome to Morocco!

We are very proud to welcome participants from 65 countries around the globe for the 2015 ACM ICPC World Finals.

Not many people know this, but Morocco is the home of “Al Qarawiyyin University” located in Fez, known as the world’s oldest existing, continually operating and the first degree awarding educational institution. Not only that, but its founder, in 859, was a woman whose name is Fatima Al Fihria. Something we now view as quite progressive for that era.

For us, it is truly an honor to host this great international collegiate event in our country, which throughout history has worked continuously towards the development of Science.

Marrakech is one of the most cosmopolitan cities in the world. Every year, the ocher city welcomes guests from all over the world for various diplomatic, cultural and sport events of national and global importance. I am confident that the 2015 ACM ICPC World Finals will be a success and will stay in your memories forever.

Congratulations to you all for advancing to the World Finals. You are remarkable young people and it is a privilege for our country to host the ICPC that gathers the brightest students from around the world. I wish all participants success and enjoyment. May this event bring you knowledge and strength that will accompany you for the rest of your lives.

Lahcen Daoudi
The Minister of Higher Education, Scientific Research and Training
Welcome from
The City of Marrakech

Welcome to Marrakech!

It is with great honor and particular pleasure that I welcome the organizers and participants of the 39th ACM International Collegiate Programming Contest World Finals to Marrakech.

It is a great honor to be the first Arab and African city to host the World Finals. I’m proud that thanks to the ICPC, about 1300 people from 65 countries are getting a chance to visit this city that I love to serve.

The city hosts several national and international events year-round, every year. A recent report put Marrakech at number 1 best holiday destination! The fact that the ICPC organizers chose Marrakech for the 2015 World Finals is further proof to me that my city is among the most attractive cities worldwide.

I am particularly proud that Cadi Ayyad University, Marrakech’s largest university, has a team participating in these World Finals. These young Marrakchi students are, like the rest of you, among the world’s most brilliant computer scientists.

I wish all the World Finals Participants an exciting competition and an unforgettable time in our city.

Fatima Ezzahra El Mansouri
Mayor of the City of Marrakech

Welcome from
The Marrakech - Tensift - El Haouz Region

Ahlan wa Sahlan! Welcome to Marrakech!

Marrakech has attracted all sorts of international events over the last two decades or so, but I believe it’s the first time that it’s hosting close to 1200 of the most brilliant computer science students in the world.

I’m greatly honored that the ICPC has chosen this city as the first Arab, Mediterranean and African venue for the World Finals. Marrakchis are renowned for their hospitality, and I hope I can convey some of that here. We love our guests, and have worked hard to ensure that they are made to feel welcome during their time here.

The prestigious collegiate programming competition that you are participating in is a gathering of some of the greatest minds in the world. I am particularly proud that two Moroccan teams are among you, including the team from Cadi Ayyad University right here in Marrakech.

All of you have the potential for brilliant futures ahead of you. I have so much hope and faith that you will go on to serve the world with the same passion and positive energy that you put into this competition.

Best of luck! Make the most out of this experience, and enjoy your time in Marrakech!

Abdeslam Bikrat
Wali of the Marrakech - Tensift - El Haouz Region

Fatima Ezzahra El Mansouri
Mayor of the City of Marrakech
Welcome from ICPC Executive Director

Welcome to Marrakech! Morocco Rocks!

Welcome to the 39th Annual ACM International Collegiate Programming Contest World Finals sponsored by IBM and hosted by Mohammed V University, Al Akhawayn University, Mundiapolis University and The Moroccan ACM. We have partnered with the UPE Honor Society and ACM to provide you with the finest possible experience here in Marrakech, Morocco, at the Palmeraie Resorts.

The ACM-ICPC World Finals culminates the efforts of faculty and students from 2,534 universities in 101 countries that placed 38,160 students in teams of three at 459 regional sites worldwide. The top 128 teams have advanced to the World Finals. Congratulations to the 2015 World Finalists and all who have made this possible!

You have earned the right to compete for further recognition for a simple reason. You bested 99% of the finest programmers from 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 “2015 World Champions” prove their worth!

There are so many stars visible in the ICPC Community. UPE has served for 45 years, ACM has served for 39 years, and Baylor University has served for 32 years. Over the 18 years of IBM sponsorship, ICPC has expanded participation by over 1500%!

Consider the Measures Award recipient, Sidi Ali Maelainin and the DeBlasi Award winning ICPC Arab region volunteers led by Ossama Ismail, Mohamed Fouad, and Yousry El Gamal, all have brought opportunity and encouragement to gifted problem solvers by quadrupling participation to 1,000 teams in just five years. Their efforts have transformed and enriched their communities with a reach that spans Africa, the Middle East, and, in hosting the World Finals, the globe.

Here we are in Marrakech, in the heartland of Morocco, in the foothills of the Atlas Mountains where caravans and traders plied their trade for thousands of years in a land of industry, mining, and academic excellence. We stand together to build the strength of mind, character, programming skills, and problem-solving prowess that will bring the bounty so needed today.

Led by World Finals Director, Sidi Ali Maelainin, the 2015 ICPC World Finals volunteers have made ready an extraordinary experience for all. Let’s join them as we look forward to the 2015 World Finals whose medals are forged in the crucible of judges’ problems and the energy of the finest 128 teams ever!

Best Wishes!

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

Welcome from World Finals Director

Dear Participants,

Welcome to the 39th ACM International Collegiate Programming Contest World Finals!

Dear contestants and coaches, your hard work has paid off. You have made it to the World Finals and that alone is a great achievement that deserves recognition. We are very happy to have you with us in Morocco. My team and I have been working hard to make this event a success, and we hope our efforts will also pay off.

Several hundred people have been working tirelessly for nearly a year in preparation for the 2015 ICPC World Finals. University presidents, faculty members, colleagues, volunteers, friends, students, and partners, we all gave it our best in order to prepare what we hope is a memorable event in this city.

It is my great pleasure to welcome you to Marrakech, a city that was very recently named the Number One holiday destination worldwide. As you will soon discover, this city combines beautifully between deep tradition and modernism. In the newer parts of the city, you might feel like you’re walking down the streets of a European city. This blend of old and new is what gives this enchanted city its uniqueness and beauty, and why the organizers of this year’s ICPC World Finals felt it was the perfect venue for this event.

You will get a chance to discover the city soon enough. In the meantime, let’s all focus on the contest. I know that like our team of organizers, you have been working for a long time towards this competition, and you will also put everything you’ve got into it. You are already prepared to achieve greatness.

Good luck!

Sidi Ali Maelainin
World Finals Director

Good luck!
Welcome from
Al Akhawayn University President

For us at Al Akhawayn University in Ifrane, collegiate programming has a special meaning. It is with fondness and pride that we look back to 1998, when our university helped found, organized and hosted the first Arab Collegiate Programming Contest with the participation of eight teams from four countries. It was an eye opening experience for our students and ever since, we have been part of that beautiful experience. As a measure of the success of the competition, last year’s Arab Regional Contest in Sharm Al Shaikh, Egypt gathered 88 teams from 48 universities in some 15 countries, nine of which will be present in Marrakesh.

Situated amidst the cedar forests of the Middle Atlas Mountains, Al Akhawayn University, now in its twentieth year of existence was established by royal decree to serve as an alternative model of education. The university is no stranger to receiving international visitors and to organizing international events. I have but one regret: that participants in the 2015 ICPC may not have a chance to visit our campus and meet other young people. I do hope however, that young participants from around the world will be able to connect, network and establish links among their institutions and countries.

Ifrane is a small resort town at an altitude of 1650 meters. Its particular alpine architecture with sloping tile roofs, its beautiful forest, clean air – it has been named the second cleanest city in the world according to a survey by MBCTimes – and ski slopes, make it a popular destination with local and international tourists. The University, which is based on the American model of education with English as the language of instruction and administration, has secured a reputation for itself and its graduates both nationally and internationally. It is a residential campus with a rich student life where some 2,000 students thrive and prepare their career in the field of their choice.

I wish participants, coaches and administrators a pleasant and successful stay in Morocco.

Driss Ouaouicha, PhD.
President
Al Akhawayn University

Welcome from
Mohammed V University President

In the name of Mohammed V University, welcome to the 2015 ACM ICPC World Finals!

Our university is Morocco’s oldest modern university and also one of its largest. Computer science is one of our main areas of study and research. Several of our institutions and departments are working successfully in this field.

UM5 produces close to 10,000 graduates per year in 85 different fields. In terms of education, UM5 offers 280 diverse programs in all major disciplines and at all levels from the DUT to the doctorate; 50% of programs are job-oriented.

In terms of research, UM5 has approximately 250 accredited research units including 14 accredited by the CNRST (out of a total of 60 accredited nationwide), 10 expertise clusters (out of a total of 18 clusters nationwide) and 5 UNESCO chairs out of the 12 chairs allocated to Morocco.

I hope our gathering here for the world finals will be the start of fruitful cooperation in education and research.

Congratulations to you all! Mohammed V University is proud that the world’s brightest students are gathered here today. I wish you all a lot of luck and success.

Saaid Amzazi, PhD.
President
Mohammed V University
Welcome from Mundiapolis University President

It is my great pleasure to welcome you all to the 39th Annual ACM International Collegiate Programming Contest World Finals! We are delighted to host some of the brightest young minds in the world, and to organize this competition in Morocco.

It is truly a glorious event, a beam of hope, energy and excellence at a time of profound need... a time of opportunity, but also a time when employability among the young generation is a concern in many parts of the world... and a time where Information Technology has come to be equated with connectivity and with living in “virtual mode” (on the Internet) an increasing part of our lives – our relationships.

Can we integrate technology with friendship, genius with teamwork, passion with pertinence to industry, and patriotism with richness of cultural diversity and of being a citizen of the world? What a better way than ICPC to strive for this?!

We at Mundiapolis University treasure these values and are proud to co-host this year’s ICPC World Finals. We have made it our primary mission to mentor students throughout their academic journey, from orientation to employability, and help them create conditions to maximize their personal and professional success and growth. We congratulate all our students and faculty partaking in the organization of the world finals, and we hope this event will be an additional source of inspiration to students in our computer engineering program, which is the oldest program in our Engineering School.

I would like to express my sincere appreciation to William Boucher (ACM ICPC Executive Director) for his vision, energy, experience and support, to Sidi Ali Maelainin (Executive Director of this year’s World Finals and Moroccan ACM President) without whom this year’s World Finals in Morocco could not be, to Driss Ouauicha (Al Akhawayn University President) and Said Amzazi (President of Mohammed V University) and their teams for being wonderful partners.

Co-hosting the ICPC World Finals for the first time in Africa, the Mediterranean and the Arab World is very special to us. We are very proud to welcome in Morocco the world’s best problem solvers for this historic final.

Congratulations to all of you for reaching the finals and best of luck during the contest!

Amine Bensaid, PhD.
President
Mundiapolis University

Welcome from MACM

Greetings from The Moroccan ACM!

On behalf of all the members of the Moroccan ACM, I would like to extend a warm welcome to everyone attending the 39th ACM International Collegiate Programming Contest.

Morocco’s involvement with the ACM dates back to 1997, when I got the first Moroccan team to the South Western European Collegiate Programming Contest. The following year, I founded the Arab and Africa Regional Contest at Al Akhawayn University. 18 years later, Morocco is hosting the ICPC World Finals! This is a first for the African continent, for the Mediterranean, and for the Arab World. I am in awe of this. As a Moroccan I am honored that my country was selected to host this great event, and as the founding President of the MACM, I am proud of Morocco’s continuous involvement in the ACM and in the Competition.

IBM has been committed to the ICPC since 1997, and the MACM is extremely grateful for IBM’s ongoing support and involvement. We thank Upsilon Pi Epsilon, the International Honor Society for Computing and Information Disciplines for its dedication to the ICPC program.

We would like to thank our co-hosts: Mohammed V University, Al Akhawayn University, and Mundiapolis University for choosing to support us, thereby making this event possible.

Dear participants, you are participating in the ICPC because you are among the top computer science and computer engineering students worldwide. You are role models in this field. The ICPC is just the beginning of your paths to success. I wish each one of you the best in the World Finals and in your future careers.

Best wishes!

Sidi Ali Maelainin
President, MACM
Welcome from IBM

On behalf of IBM, it is my great pleasure to welcome you to the 39th Annual ACM International Collegiate Programming Contest (ICPC) World Finals! The ICPC is the world's largest and most prestigious programming competition for the best and brightest students of computing from around the world. This year marks IBM's eighteenth year as sponsor of the competition and we are thrilled to be here with you in Marrakech, Morocco.

Many of you are members of the teams that have qualified for the World Finals and as such are part of an elite group of talented students from the world's best universities and colleges. Congratulations on qualifying for this year's world championship. I know that it has taken a lot of hard work and dedication to reach this significant milestone and you should all be very proud of your accomplishment.

Some of you are part of an extraordinary group of volunteers, including the coaches, regional contest and site directors, who devote an enormous amount of personal time and effort in support of the ICPC. I welcome you and sincerely thank you for your passion, dedication and commitment to developing the next generation of technology leaders.

I also want to recognize and thank the ICPC leadership and their staff of volunteers, our hosts from Mohammed V University, Al Akhawayn University, and Mundiapolis University, the 2015 World Finals Director and his staff of volunteers, and members of Team IBM who have all been working very hard over the past year to make this week a memorable one for all of you.

While you are most certainly focused on the world championship competition that will take place on Wednesday, the organizers have put together a fun-filled week of activities for you to enjoy. I urge you to take advantage of the many opportunities to meet and network with other participants, academic, technical and business leaders who have gathered here with you at the Finals. Many long-lasting friendships began at an ICPC World Finals, and we hope that you will continue this tradition as active members of the ICPC family.

We look forward to spending time with you during IBM TechTrek on Monday and throughout the week to show you how Bluemix, IBM's Cloud Platform, helps you to rapidly build, manage, and run web and mobile applications. We also have some of IBM's technical leaders here in the IBM ChillZone to support you in a fun Hackathon activity. Do you remember IBM Watson, the artificially intelligent computer system capable of answering questions posed in natural language? This year, you will have an opportunity to play with IBM Watson services in Bluemix to create some cool and innovative mobile applications during your free time! I also urge you to take advantage of the opportunity to talk to any of us about what we do at IBM, what it's like to create the technology of the future, and the opportunities we have at IBM for student and full-time employment.

The IBM team is very excited to be here with you this week. 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 Wednesday. I wish you all the best of luck.

After months of preparation, the 2015 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. Relax and have a lot of fun this week. The memories that you will make during this exciting and momentous time will remain with you forever!
Welcome from ACM

Welcome to the 39th annual ACM International Collegiate Programming Contest (ICPC) World Finals. ICPC is recognized around the world as the premier venue for encouraging and developing young programming talent. Although cast in the terms of a "contest", the emphasis on team building and team success means that it is more about building relationships and comradery than it is about competition. The friends found and lessons learned in the context of ICPC will last a lifetime.

ACM is deeply grateful to the Baylor University team, the ICPC headquarters, and to the Mohammed V University, Al Akhawayn University and Mundiapolis University for hosting this year’s event. I would especially like to express our gratitude to IBM for its continued commitment to the ICPC. On behalf of ACM, I thank UPE, the international honor society for computing and information disciplines, for its continuing support of the ICPC program.

ACM is very pleased to extend free student memberships to all student participants in the ICPC, with the highest privileges given to you, the 2015 World Finalists.

I wish each of you well in the World Finals and success in your chosen careers. Practitioners in our discipline demonstrate their professionalism and commitment by becoming members of ACM. I welcome each of you, personally, as you join your many colleagues and mentors who already make the ACM the largest and most important international professional society in computing.

And may the best team win!

Sincerely,

Alexander L. Wolf
ACM President

Welcome from UPE

It is with pleasure that I welcome you to the 2015 ICPC World Finals on behalf of UPE. This event is always an exciting time for UPE. For us, the most important aspect of this competition is the luxury of being able to interact with the world's best and brightest students in the computing and information disciplines. In addition, we in UPE consider it a privilege to meet new friends and experience the highly acclaimed city of Marrakech, with its great people, beautiful architecture and landscape, and a cultural heritage that gives the highest value to the education of its people.

UPE would like to recognize and say Thank You to the hundreds of ICPC volunteers who are here this week, and especially to those who have served as ICPC volunteers for several years. The success of this event is assured because of individuals from the academic and computing community who serve as team coaches and regional directors, personnel from IBM, Baylor University, ACM, the ICPC support staff. Finally, UPE wishes to give a very special Thank You to our host universities, namely: Mohammed V University, Al Akhawayn University, and Mundiapolis University.

Again, welcome to the 2015 ICPC and we hope you will have a wonderful time in Marrakech.

Sincerely yours,

Orlando Madrigal, Ph.D.
UPE Executive Director
Dear ICPC participants,

I’m delighted to welcome you on behalf of Baylor University to the 39th Annual ACM International Collegiate Programming Contest World Finals in Marrakech.

To those of you who are contestants and coaches, we congratulate you on your superb accomplishment in qualifying to compete. To those of you who have committed your considerable expertise, time, and energy to making arrangements for this event and to the administration of the competition itself, we extend our profound appreciation.

We’re grateful as well to this year’s host institutions—Mohammed V University, Al Akhawayn University, and Mundiapolis University—for their generous hospitality and commitment of resources, and we’re pleased to have the opportunity to cultivate our acquaintance with you, our partners in education, through cooperation on this occasion.

Baylor is proud to have had the opportunity to serve ICPC for 32 years. Our mission statement describes our desire “to educate men and women for worldwide leadership and service.” The skills and aspirations cultivated by the ICPC—not only at the level of the World Finals but throughout the many earlier levels of competition—address exactly these goals: students are inspired to lead as they develop the ability to solve programming challenges, but, even more importantly, these challenges are focused on solving problems that can serve the needs of people throughout the world and make it possible for them to flourish.

To all of you who have gathered here for these exciting days of competition and fellowship, please accept my best wishes for a deeply rewarding experience.

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

As Moroccan Federation of Information Technology, Communication and Offshoring (APEBI), we can only view our satisfaction about the fact that our country will host such a prestigious competition (ACM-ICPC), organized for the first time in an Arab, African, and even Mediterranean country.

Even more than the facts that this event directly affects the sector that we defend, the values that it carries are right in line with the DNA of our federation.

Since its creation in 1989, APEBI has continued to redefine its actions to promote the use and dissemination of Information Technologies and Communication in Moroccan society, including through its introduction into the education system and the development of engineering courses able to bring Moroccan youth fully into society of Information and Communication.

A long road has been traveled since with undeniable achievements, although much remains to be done.

Today, the organization of this competition in Morocco is an undeniable proof of the credibility of the kingdom as a land of international scale events, but also the quality of the rich pool of Moroccan youth and more particularly that of his young programmers developers.

Finally, aware of the spirit of excellence carried by such an event and the good effect that it has over the young people, our federation is glad to provide full support to the organizers and participants from all over the world.

Welcome home in Morocco and may the best win!

Mohamed Chakib Rifi
President, APEBI
Contest
ABOUT THE CONTEST

The ACM International Collegiate Programming Contest (ICPC) is the premiere global programming competition conducted by and for the world’s universities. The competition operates under the auspices of ACM, is sponsored by IBM, and is headquartered at Baylor University. For nearly 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.

Teams of three students represent their universities 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 advanced 128 teams to the World Championship round – the 2015 ACM-ICPC World Finals sponsored by IBM and hosted by The Moroccan ACM, Mohammed V University, Al Akhawayn University, and Mundiapolis University – which will be conducted on 20 May 2015 in Marrakech, Morocco, at the Palmeraie Resorts.

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.

Since IBM became sponsor in 1997, ICPC participation has increased by more than 1500%. This past year, ICPC participation included 38,160 of the finest students and faculty in computing disciplines from 2,534 universities from 101 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 December 2014) – This year 38,160 contestants from 2,534 universities in 101 countries on six continents competing at over 459 sites to advance to the World Finals. A record 42,229 students and 4,831 coaches competed in ICPC and ICPC-assisted competition this year. This year set new records in participation.

- **World Finals** (16-21 May 2015, Marrakech, Morocco) – Hosted by The Moroccan Association for Computing Machinery (MACM), Mohammed V University (UMS), Al Akhawayn University (AUI), and Mundiapolis University (MU), one hundred and twenty - eight (128) world finalist teams will compete for awards, prizes and bragging rights. These teams represent the best of the great universities on six continents - the cream of the crop.
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.

This past year 38,160 contestants from 2,534 universities in 101 countries competed in regional competitions at over 459 sites worldwide. Since the beginning of IBM’s sponsorship in 1997, participation has increased more than 1500%.

For more information on previous contests, and last year’s final standings and problem sets, please see http://icpc.baylor.edu. Growth continues.

PAST WINNERS

Recent medal winners in order of finish are:

2014 Gold
St. Petersburg State University (Russia)
Moscow State University (Russia)
Peking University (China)
National Taiwan University (Taiwan)

2013 Gold
St. Petersburg National Research University ITMO (Russia)
Shanghai Jiao Tong University (China)
The University of Tokyo (Japan)
National Taiwan University (Taiwan)

2012 Gold
St. Petersburg National Research University ITMO (Russia)
University of Warsaw (Poland)
Moscow Institute of Physics & Technology (Russia)
Shanghai Jiao Tong University (China)

2011 Gold
Zhejiang University (China)
University of Michigan at Ann Arbor (USA)
Tsinghua University (China)
St. Petersburg State University (Russia)

2010 Gold
Shanghai Jiao Tong University (China)
Moscow State University (Russia)
National Taiwan University (Taiwan)
Taras Shevchenko Kiev National University (Ukraine)

World Finals 2015 hosted in Morocco – the final round following the 2014 Regionals

One hundred and twenty-eight teams from regional contests servicing universities worldwide will advance to the World Finals to be held at the Palmeraie Resorts, Marrakech, Morocco, 16-21 May 2015.

The World Finals is hosted by The Moroccan ACM, Mohammed V University, Al Akhawayn University, and Mundiapolis University.

Morocco hosted the very first regional contest in North Africa and the Middle East in 1998.
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 that is typically held between March and June. 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 and Dates
The 2015 World Finals will be held in Marrakech, Morocco, May 16 - 21, 2015, at the Palmeraie Resorts.

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 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.

The highest scoring team is the World Champion and will receive the World Champion Cup and plaques. The other top twelve teams, the North America Champions, the Latin America Champions, the Europe Champions, the South Pacific Champions, the Asia Champions, and the Africa & Middle East Champions will also receive plaques.

The World Champion team will be awarded $16,500. Each of the other three Gold Medal teams will be awarded $7,500. Each Silver Medal team will be awarded $4,500. Each Bronze Medal team will be awarded $2,250.

Courtesy of the UPE Computer Science Honor Society, First Solution Award will be $1500 and First to Solve Problem “X” will be $1050 (for all but first problem solved).

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.

The highest scoring team is the World Champion and will receive the World Champion Cup and plaques. The other top twelve teams, the North America Champions, the Latin America Champions, the Europe Champions, the South Pacific Champions, the Asia Champions, and the Africa & Middle East Champions will also receive plaques.

The World Champion team will be awarded $16,500. Each of the other three Gold Medal teams will be awarded $7,500. Each Silver Medal team will be awarded $4,500. Each Bronze Medal team will be awarded $2,250.

Courtesy of the UPE Computer Science Honor Society, First Solution Award will be $1500 and First to Solve Problem “X” will be $1050 (for all but first problem solved).
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 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. 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.
Welcome to the 2015 ACM-ICPC World Finals

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.

IBM Welcome
IBM hosts a reception to welcome all registered attendees.

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

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.

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

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

The World Finals
The time has come. One hundred and twenty-eight 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 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.
ORGANIZERS

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 http://www.acm.org.

About IBM
IBM is a globally integrated technology and business service company. With operations in more than 170 countries, IBM attracts and retains some of the world’s most talented people to help clients solve problems and grow their business. Innovation is at the core of IBM’s strategy. The company develops and sells business solutions based on a broad range of high value software and systems infrastructure. With innovation in cloud computing, analytics, mobile, social, middleware platforms, mainframe, POWER systems, storage and others, IBM helps clients around the world to apply highly advanced expertise in business decision and operation.

Most enterprises today pursue hybrid cloud computing infrastructure. They are moving to cloud computing and prefer full-service providers like IBM to transition them to data secure hybrid cloud environment. New skills and next generation cloud developing leadership are becoming essential in the market. For example, Bluemix, IBM’s platform-as-a-service, offers cloud-based services and Application Program Interface (API) in one integrated platform to developers who can mix and match different tools to build applications in the cloud for mobile, web, big data, analytics and more. Bluemix provides developers integration, testing, security, transactions and other services they need to build, deploy and manage their applications for all kinds of business.

For more information, visit http://www.ibm.com.

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.

For more information, visit http://www.ibm.com/university.

About Baylor University’s
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 http://www.baylor.edu.

About Upsilon Pi Epsilon’s
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: http://upe.acm.org.
HOSTS
The history of Moroccan higher education dates back to the French protectorate with the creation in 1920, of the first research institute – The Cherifien Scientific Institute, later to become the Scientific Institute. Rather surprisingly, the first research conducted by this Institute and hence in Morocco was not in the humanities and social sciences but in biology, chemistry, physics, geology, oceanography and anthropology.

In the same year, the Institute for Advanced Moroccan Studies was established with the mandate to spread the Arabic and Berber languages and conduct research in geography, history, ethnography, and Moroccan civilization. This institute would later develop into Morocco’s first Faculty of the Arts and Humanities.

Years later, in 1953, the predecessor to Morocco’s first Faculty of Science- the Center for Advanced Scientific Studies was inaugurated. These three institutes laid the foundations for Morocco’s first modern university and in 1957, on the eve of the nation’s independence, an emancipatory mindset and a push towards modernization led to the birth of Mohammed V University. It faced the challenge of training independent Morocco’s first professionals and spearheading the nation’s economic and social development; a challenge it met with success. Today its reputation is solid. For over half a century it has been training leading national figures in all fields: literature, the humanities, law, economics, the hard sciences, engineering and medicine.

In addition as Morocco’s first modern university and as part of a policy to decentralize higher education, it nurtured and sponsored a number of centers of higher education in several cities such as Casablanca and Fes which later became independent universities. The UMS will create a large university comprising 19 institutions, the most of any Moroccan university:

- 5 open admission institutions
- 14 selective admission institutions

UMS has 2428 faculty members for a student faculty ratio of 26 to 1. Administrative and technical staff (support staff, laboratory technicians, qualified technicians, engineers, administrators) will number 1643 members.

At the start of the 2014-2015 academic year the student body of UMS totaled approximately 72,000 enrollees, 80% of whom are enrolled in one of the 5 open admissions institutions and 3/4 of whom are enrolled in a Basic Bachelor’s program. The international student body totals over 2000. UMS produces close to 10,000 graduates per year in 85 different fields.

Established in 1995, Al Akhawayn University in Ifrane (AUI) is an independent, not-for-profit, coeducational Moroccan university committed to educating future citizen-leaders of Morocco and the world through a globally oriented, English-language, liberal-arts curriculum based on the American style.

The University enhances Morocco and engages the world through leading-edge educational and research programs, including continuing and executive education; upholds the highest academic and ethical standards; and promotes equity and social responsibility.

Based on the principles of diversity and an international outlook, Al Akhawayn University’s mission is driven by values of human solidarity and tolerance. The university has already developed a national and international reputation for its unique identity and potential.

An independent Board of Trustees composed of national and international business leaders, government officials, and higher education experts oversees the University orientations and performances.

AUI presently has 147 faculty members from Morocco and 16 other countries and 2136 students who are from Morocco and 30 other nations. The University offers 7 Bachelor and 12 Master degree programs in its three schools: Business Administration, Humanities and Social Sciences, and Science and Engineering. The Executive Education Center offers two part-time degrees, short courses and training programs to executives from public and private institutions.

The Office of International Programs has cultivated relationships with more than 400 institutions on five continents, allowing students to spend one or more semesters as exchange students, attend conferences and events, or participate in cultural trips abroad.

AUI has over 3850 alumni across the globe as of Fall 2014.
Mundiapolis University was founded in 2009 by a group of business and industrial firms working together, to establish the first private university campus in Morocco. It is the result of a constructive evolution, reflecting its expertise and 17 years of experience in higher education. The university was able to innovate and adapt to the development needs while remaining attentive to the socio-economic needs of Morocco. Today, it is on this foundation that it prepares its students to build the future.

The three major higher education institutions that played a pioneering role, since 1996, in their respective areas are: Polyfinance in financial engineering and business administration, IMADE as a law school specialized in corporate and business law, and EMIAE in computer and electrical engineering. The three schools merged together to give birth to Mundiapolis University of Casablanca, a multidisciplinary campus offering courses in four major sectors: Political Science, Management, Engineering, and Legal and Business Law. It is also a comprehensive university on the LMD system, which has incorporated an internationalization component in all its degree programs.

The primary mission of Mundiapolis University is to:
- accompany students throughout their academic journey, from orientation to employability, in order to maximize their personal and professional success; and
- train competent and responsible students who uphold high moral values and are capable of adapting to best serve the changing needs of the job market, and of making a significant contribution around them.

To serve this mission, the university’s model combines liberal arts education with the specialization skills-based model, and it offers a program of excellence in 5 areas:
- Student orientation from integration to specialization;
- Corporate partnerships and first-job optimization for career acceleration;
- Quality assurance for job-specific skills;
- Behavioral intelligence for productivity; and
- Languages and communication for personal growth.

Action-research at Mundiapolis University is carried out with corporate and government partners, and focuses on information technologies for development and good governance, smart cities, innovation in small and medium enterprises, and green economy.

The Moroccan Association for Computing Machinery was formed by a group of engineers, faculty members, IT professionals and students specialized in computer science, in order to recognize and support the MCPC –Moroccan Collegiate Programming Contest and other ACM activities in Morocco and contribute to the dissemination of the ICPC culture in universities and engineering schools.

MACM has launched an effort aimed at increasing the level and visibility of ACM activities across Morocco. The MACM community in Morocco is growing in membership, sponsored conferences and symposia.

MACM comprises a cross section of the computer science and information technology community committed to increasing the visibility and relevance of ACM in Morocco. The MACM is focused on a wide range of ACM activities, from creating channels to bring more high-quality ACM activities to Morocco; to expanding ACM chapters; to enhancing access to the ACM Digital Library and publications for ACM members in Morocco; to increasing the participation of ACM members in Morocco across all dimensions of ACM.

The goals of the MACM are to:
- serve as a professional network for individuals who are involved with the science and technology of computing;
- contribute to advancing computing as a science and profession in Morocco;
- organize the MCPC competition;
- encourage students to take an active interest in the emerging and exciting world of computing;
- organize boot camps for students in order to prepare them for ACPC and ICPC and other international competitions in computer science.
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?

I wish all our contestants to compete with each other to build a better world just like the same way they compete in the ACM ICPC World Finals. I know that they will be leading figures of technology and information world. My humble advice for them is to discover that learning is more exciting than knowing, deserving is more satisfying than earning, and sharing is more beautiful than collecting. Peace and happiness are inborn right of all individuals, on the other hand, success is the result of a systemic and continuous work.

On regional levels, I advise contestants to think about everything very carefully and to try avoiding mistakes. In the World Finals however, this is not enough. If you want to win, you must be excellent, fast, and you also need some luck. So my 'advice' is: Have a good luck, and fun, of course. I wish you to enjoy the World Finals and to make this week a pleasant lifetime memory.

Enjoy the event - the location - meeting your co-contestants. And, if not a medal, at least take home good memories.

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!
As a judge I have always tried not to wish the contestants a good performance as I am always worried that all problems will be solved by a team. So I wish that you have a nice trip to Morocco and those who are at the World Finals for the first time, try to know about the next venue for next year and be inspired to qualify again. You are world finalists, so you must be too talented to need my advice. I have always believed that the amount of good you do for this world is 30% talent + 70% goodness of heart, so I hope you try to use your goodness of heart more and more because unlike talent it knows no bounds :)  

**SHAHRIAR MANZOOR**  
Southeast University  
World Finals judge since 2003

As for 'advice', I’d say “Never stop honing your skills!”

**DEREK KISMAN**  
TransLattice  
World Finals judge since 2004

I hope you enjoy the contest. Please solve my problem. Have fun!

**PER AUSTRIN**  
KTH Royal Institute of Technology, Stockholm  
World Finals judge since 2008

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.

**WALTER GUTTMANN**  
University of Canterbury  
World Finals judge since 2011

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!

**JAKUB ONUFRY WOJТАSZCZЫK**  
Google, Poland  
World Finals judge since 2011

I wish 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 life 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 wish you all you manage to make good use of it.

**BABAK BEHSAZ**  
Google  
World Finals judge since 2013

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

**GREG HAMERLY**  
Baylor University  
World Finals judge since 2014

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!

**MICHAEL GOLDSWASSER**  
Saint Louis University  
World Finals judge since 2015
TEAMS
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<td>Nanyang Technological University</td>
<td><a href="http://www.ntu.edu.sg">www.ntu.edu.sg</a></td>
<td>Team name: AAA</td>
<td>Coach: Rui Fan</td>
<td>Viet Anh Ho Sy, Tuan Anh Nguyen, Tran Dang Tuan Anh</td>
</tr>
<tr>
<td>Seoul National University</td>
<td><a href="http://www.snu.ac.kr">www.snu.ac.kr</a></td>
<td>Team name: cpp</td>
<td>Coach: Heon Young Yeom</td>
<td>Hyun Min Choi, Jaesung Park, Bumsoo Park</td>
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<tr>
<td>Sharif University of Technology</td>
<td><a href="http://www.sharif.ac">www.sharif.ac</a></td>
<td>Team name: Saboon</td>
<td>Coach: Kamran Bavar</td>
<td>Alireza Farhadi, Saeed Ilich Ghazaan, Hamed Saleh Mohammadabad</td>
</tr>
<tr>
<td>University of Electronic Science and Technology of China</td>
<td><a href="http://www.uestc.edu.cn">www.uestc.edu.cn</a></td>
<td>Team name: UESTC_MonaLisa</td>
<td>Coach: Peng Yang</td>
<td>Weiping Lin, Penghui Qi, Ke Xiao</td>
</tr>
<tr>
<td>University of Tsukuba</td>
<td><a href="http://www.tsukuba.ac.jp">www.tsukuba.ac.jp</a></td>
<td>Team name: nekonyaso</td>
<td>Coach: Claus Aranha</td>
<td>Takaaki Hiragushi, Ryosuke Koyanagi, Nozomu Nakajima</td>
</tr>
<tr>
<td>Jilin University</td>
<td><a href="http://www.jlu.edu.cn">www.jlu.edu.cn</a></td>
<td>Team name: Major Battle</td>
<td>Coach: OkiGoGi</td>
<td>Tomohiro Oka, Shoichi Nishimura, Tohohiro Oka</td>
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<tr>
<td>National Taiwan University</td>
<td><a href="http://www.ntu.edu.tw">www.ntu.edu.tw</a></td>
<td>Team name: [ \ ]_1</td>
<td>Coach: Pu-Jen Cheng</td>
<td>Zheng-Jie Chang, Shuo-Yan Lin, Cheng Yueh</td>
</tr>
<tr>
<td>Shahid Beheshti University</td>
<td>en.sbu.ac.in</td>
<td>Team name: Dark Side of Trianguli</td>
<td>Coach: Massieh Aminbeidokhti</td>
<td>Mohammadreza Haghpanah, Farzad Sharbafian, Nima Shirvanian</td>
</tr>
<tr>
<td>South China Agricultural University</td>
<td><a href="http://www.scau.edu.cn">www.scau.edu.cn</a></td>
<td>Team name: aabbx</td>
<td>Coach: Xiangdi Chen</td>
<td>Huakai Deng, Yongsheng Li, Ye Liang</td>
</tr>
<tr>
<td>KAIST</td>
<td><a href="http://www.kaist.ac.kr">www.kaist.ac.kr</a></td>
<td>Team name: OrIGoGi</td>
<td>Coach: Kyung-Yong Chwa</td>
<td>Haimin Chen, Jiaming Tang, Yan Yao</td>
</tr>
<tr>
<td>Shahjalal University of Science and Technology</td>
<td><a href="http://www.sust.edu">www.sust.edu</a></td>
<td>Team name: SUST_DownToTheWire</td>
<td>Coach: Md Saiful Islam</td>
<td>Dhananjoy Biswas, Abdullah Al Maruf, Sakibul Mowl</td>
</tr>
<tr>
<td>South China University of Science and Technology</td>
<td><a href="http://www.scut.edu.cn">www.scut.edu.cn</a></td>
<td>Team name: SCUT_Low_Profile</td>
<td>Coach: Ziyang Dong</td>
<td>Xuyu Gui, Jun Hu, HuaIDong Zhang</td>
</tr>
<tr>
<td>Korea University</td>
<td><a href="http://www.korea.ac.kr">www.korea.ac.kr</a></td>
<td>Team name: Team X</td>
<td>Coach: Jin-Young Choi</td>
<td>Geun Woo Baek, MyungWoo Chun, WonCheol Lee</td>
</tr>
<tr>
<td>National University of Singapore</td>
<td><a href="http://www.nus.edu.sg">www.nus.edu.sg</a></td>
<td>Team name: ThanQ+</td>
<td>Coach: Sun-Teck Tan</td>
<td>Nathan Azaria, Jonathan Irvin Gunawan, Dinh Quang Dat Vu</td>
</tr>
<tr>
<td>Shanghai Jiao Tong University</td>
<td><a href="http://www.sjtu.edu.cn">www.sjtu.edu.cn</a></td>
<td>Team name: Dracarys</td>
<td>Coach: Yong Yu</td>
<td>Wenhao Huang, Yunpei Liu, Jun Ma</td>
</tr>
<tr>
<td>The University of Tokyo</td>
<td><a href="http://www.u-tokyo.ac.jp">www.u-tokyo.ac.jp</a></td>
<td>Team name: !t%&amp;0*+~/0=&lt;+?@</td>
<td>Coach: Tomoyuki Kaneko</td>
<td>Kensuke Imanishi, Shogo Murai, Makoto Soejima</td>
</tr>
<tr>
<td>University of Indonesia</td>
<td><a href="http://www.cs.ui.ac.id">www.cs.ui.ac.id</a></td>
<td>Team name: BerinGAS</td>
<td>Coach: Denny Denny</td>
<td>William Gozali, Ammar Fathin Sabili, Pusaka Kaleb Setyabudi</td>
</tr>
<tr>
<td>Zhejiang SCI-TECH University</td>
<td><a href="http://www.zstu.edu.cn">www.zstu.edu.cn</a></td>
<td>Team name: shenshanlaoyao</td>
<td>Coach: Hairong Ye</td>
<td>Huijie Ye, Mingming Zhang</td>
</tr>
<tr>
<td>Kyoto University</td>
<td><a href="http://www.kyoto-u.ac.jp">www.kyoto-u.ac.jp</a></td>
<td>Team name: Colorful Jumbo Chicken</td>
<td>Coach: Yuichiro Hanada</td>
<td>Shogo Ebara, Shoichi Nishimura, Tomohiro Oka</td>
</tr>
<tr>
<td>Peking University</td>
<td><a href="http://www.pku.edu.cn">www.pku.edu.cn</a></td>
<td>Team name: Valkyrie</td>
<td>Coach: Guoje Luo</td>
<td>Chao Li, Di Wang, Zhengkai Wu</td>
</tr>
<tr>
<td>Shanghai University</td>
<td><a href="http://www.acm.shu.edu.cn">www.acm.shu.edu.cn</a></td>
<td>Team name: Final_Battle</td>
<td>Coach: Yunfu Shen</td>
<td>Bin Kuang, Jun Mei, Jianhao Zhang</td>
</tr>
<tr>
<td>Tsinghua University</td>
<td><a href="http://www.tsinghua.edu.cn">www.tsinghua.edu.cn</a></td>
<td>Team name: ThinkingBear</td>
<td>Coach: Xiaojun Wu</td>
<td>Mingsda Qiao, Jie Xu, Dingli Yu</td>
</tr>
<tr>
<td>Yazd University of Iran</td>
<td><a href="http://www.yazd.ac.ir">www.yazd.ac.ir</a></td>
<td>Team name: Baadgir</td>
<td>Coach: Mohammad Reza</td>
<td>Hooshmandasl, Hossein Enam Zadeh, Amir Kafshdar Goharshady, Saeed Tame Bidgody</td>
</tr>
<tr>
<td>University of Indonesia</td>
<td><a href="http://www.uestc.edu.cn">www.uestc.edu.cn</a></td>
<td>Team name: FuQiang</td>
<td>Coach: Qingyu Zhang</td>
<td>Jiuyu Chen, Yiming Liao, Ruoyu Zhang</td>
</tr>
<tr>
<td>University of Science and Technology of China</td>
<td><a href="http://www.uestc.edu.cn">www.uestc.edu.cn</a></td>
<td>Team name: Java</td>
<td>Coach: Phuong Ho Duc</td>
<td>Viet Do Xu, Phan Quang Minh Nguyen, Duc Nam Nguyen</td>
</tr>
<tr>
<td>Zhejiang University</td>
<td>acm.zju.edu.cn</td>
<td>Team name: Berditio</td>
<td>Coach: Can Wang</td>
<td>Xi Lin, Yi Lu, Yanliang Qian</td>
</tr>
<tr>
<td>University of Tsukuba</td>
<td><a href="http://www.tsukuba.ac.jp">www.tsukuba.ac.jp</a></td>
<td>Team name: nekonyaso</td>
<td>Coach: Claus Aranha</td>
<td>Takaaki Hiragushi, Ryosuke Koyanagi, Nozomu Nakajima</td>
</tr>
</tbody>
</table>
Belarusian State Economic University  
www.bseu.by  
**Team name:** 1C++  
**Coach:**  
Aliaksei Charnevich  
Aliaksei Kolesau  
Aliaksandr Nekrashevich  
Ilya Sashcheka  
Mikalai Stsepa

Free University of Tbilisi  
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**Team name:** Tbilisi FreeUni  
**Coach:**  
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Giorgi Gulashvili  
Tornike Mandzulashvili  
Nikoloz Svanidze

Lviv National University  
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**Team name:** LNU Penguins  
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Roman Bilyi  
Vitaliy Herasymiv  
Bohdan Pryshchenko

Belarusian State University  
www.basu.by  
**Team name:** BelarusianSU  
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Yauheni Hrytskevich  
Daniil Berezhnov  
Aleksandr Nezdati

Friedrich-Alexander-University Erlangen-Nuremberg  
www.cs.fau.de  
**Team name:** Old Fashioned Typefetting  
**Coach:**  
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Tobias Polzer  
Miriam Polzer  
Paul Wild

Moscow Aviation Institute  
www.maip.ru  
**Team name:** MAI #9  
**Coach:**  
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Stepan Belousov  
Vladimir Mishonov  
Timofey Yushchenko

Belarusian State University of Informatics and Radioelectronics  
www.bsuir.by  
**Team name:** Belarusian SUIR 2  
**Coach:**  
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Ilya Los  
Ivan Trofimov

Jagiellonian University in Krakow  
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**Team name:** Jagiellonian  
**Coach:**  
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Piotr Bejda  
Grzegorz Guspiew  
Michał Seweryn

Moscow Institute of Physics & Technology  
www.mipt.ru  
**Team name:** The Moon  
**Coach:**  
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Dmitry Kuzmichev  
Nikolai Pershakov  
Mikhail Surin

Charles University in Prague  
www.cuni.cz  
**Team name:** MFF  
**Coach:**  
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Filip Hlášek  
Miroslav Olsák  
Stéphane Simsa

Kazan (Volga Region) Federal University  
www.kpfu.ru  
**Team name:** Kazan FU #1  
**Coach:**  
Kamil Khadiev  
Vladimir Butin  
Dinar Gainitdinov  
RamisYamilov

Moscow State University  
www.spbau.ru  
**Team name:** SPb SU is a ball  
**Coach:**  
Salvador Rivero  
Ferran Alet  
Andriy Mostovyi

ETH Zürich  
www.ethz.ch  
**Team name:** Sub-ETHa  
**Coach:**  
Jan Wilken Doerrie  
Daniel Graf  
Andrei Párvu  
Martin Raszyk

KTH - Royal Institute of Technology  
www.kth.se  
**Team name:** Omogen Heap  
**Coach:**  
Lukáš Poláček  
Simon Lindholm  
Johan Sannemo  
Mårten Wiman

National Research University Higher School of Economics  
www.hse.ru  
**Team name:** #1  
**Coach:**  
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Yury Morkriy  
Aydar Sayranov  
Ivan Trofimov

National University of Science and Technology “MISIS”  
en.misis.ru  
**Team name:** MISIS-1  
**Coach:**  
Igor Faradjev  
Konstantin Bulatov  
Timofey Chernov  
Natalya Skoryukina

University of Copenhagen  
www.diku.dk  
**Team name:** LambdaBamserne  
**Coach:**  
Søren Dahlgaard  
Thomas Dybdahl Ahle  
Jakob BakTejs Knudsen  
Mathias BakTejs Knudsen

University of Warsaw  
www.wuw.pl  
**Team name:** Warsaw Eagles 2015  
**Coach:**  
Jan Madey  
Kamil Dębowski  
Błażej Magnowski  
Marek Sommer

Saint Petersburg Academic University – Nanotechnology Research and Education Centre RAS  
www.spbau.ru  
**Team name:** ONU 2/3  
**Coach:**  
Vitalii Bondarenko  
Roman Furko  
Dmytro Ihnatenko  
Andrii Mostovyi

University of Zagreb  
www.unizg.hr  
**Team name:** Zagreb  
**Coach:**  
Kresimir Malnar  
Stjepan Glavina  
Borivoje Dukan  
Gustav Matula

University of Bucharest  
www.unibuc.ro  
**Team name:** Unibuc_Infoarea_ Coders  
**Coach:**  
Dumitran Adrian Marius  
Andrei Budiu  
Adrian Budau  
Ciprian Olariu
### Latin America

**Escuela Superior De Computo Instituto Politecnico Nacional**
www.isc.escom.ipn.mx  
**Team name:** Escooler  
**Coach:** Edgardo Adrian Franco Martinez  
Luis Martin Jiménez Rodríguez  
Sergio Adonais Romero González  
Edgar Augusto Santiago Nieves

**Universidad Autónoma de Aguascalientes**
www.uaa.mx  
**Team name:** Peludos  
**Coach:** Eduardo Serna-Pérez  
Francisco Javier Alarcón Esparza  
Flavio Hernández González  
Juan Antonio Ruiz Leal

**Universidad Católica San Pablo**
www.ucsp.edu.pe  
**Team name:** Codesumare  
**Coach:** Joshimah Córdova Monroy  
Jainor Néstor Cárdenas Choque  
Aldo Paolo Culiquincondor Ruiz  
Carlos Eduardo Guillén Dávila

**Universidad de Santiago**
www.usp.br  
**Team name:** I am Root  
**Coach:** Marcio Oshiro  
Marios Kawakami  
Antonio Roberto de Campos Junior  
Stefano Tommasini

**Universidade de São Paulo**
www.usp.br  
**Team name:** 2ez4MySWAG  
**Coach:** Edwin Marcelo Guzman Buezo  
José Manuel de la Campa Flores  
Alex Erick Pizarro Jimenez  
Juan Francisco Ribera Laszowski

**Universidad Privada de Santa Cruz de la Sierra**
www.upspa.edu.bo  
**Team name:** Team Phoenix  
**Coach:** Ricardo Monascal  
Wilmer Bandres  
Jose Piñero  
Jose Sanchez

**Universidad Simón Bolívar**
www.usb.ve  
**Team name:** Team Phoenix  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

### North America

**Cornell University**
www.cornell.edu  
**Team name:** Cornell huehue  
**Coach:** Daniel Fleischman  
Eduardo Ferreira  
Richard Peng  
Ali-Amir Aldan  
Trevor Boone  
Jacob Smith  
Tyler Uhlenkamp

**Georgia Institute of Technology**
www.gatech.edu  
**Team name:** Yellow Jackets  
**Coach:** Jason Long  
Nathan Cheney  
Zachary Felix  
Marcus Upton

**Harvard University**
www.harvard.edu  
**Team name:** Harvard  
**Coach:** John Greiner  
Nick Merritt  
Philip Taffet  
Jose Carlos Vera-Garza

**Iowa State University**
www.iastate.edu  
**Team name:** MIT2  
**Coach:** Richard Peng  
Ali-Amir Aldan  
Szu-Po Wang  
Haoran Xu

**Northwestern University**
www.northwestern.edu  
**Team name:** Mildcat  
**Coach:** Mike Zhang  
Siddhartha Jayanti  
Eric Schneider  
Jon Schneider

**Princeton University**
www.princeton.edu  
**Team name:** Schneidarta  
**Coach:** Santiago Ceron  
Dionicio Sotelo  
Mario Gallego  
Eric Schneider

**Rice University**
www.rice.edu  
**Team name:** Rice Gray  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**Stanford University**
www.stanford.edu  
**Team name:** Team Phoenix  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**Texas A&M University**
www.tamu.edu  
**Team name:** Texas A&M  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**University of California, Santa Barbara**
www.ucsb.edu  
**Team name:** Team Phoenix  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**University of Maryland**
www.umd.edu  
**Team name:** Maryland  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**University of Michigan**
www.umich.edu  
**Team name:** Michigan  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**University of Pennsylvania**
www.upenn.edu  
**Team name:** Penn  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**University of Toronto**
www.uwaterloo.ca  
**Team name:** Waterloo  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**University of Wisconsin, Madison**
www.wisc.edu  
**Team name:** Wisc  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

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**Universidad de Buenos Aires - FCEN**
www.fcen.uba.ar  
**Team name:** Mepalba  
**Coach:** Agustín Santiago Guitarrez  
Melanie Sclar  
Lucas Tavolaro Ortiz  
Ariel Zylber

**Universidad de La Habana**
www.uh.cu  
**Team name:** UH++  
**Coach:** Alfredo Somoza Moreno  
Marcelo Fornet Fornes  
José Carlos Gutiérrez Pérez  
Daniel Otero Baguer

**University of Minas Gerais**
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**Team name:** Locos  
**Coach:** Luis Humberto González  
Alfredo Altamirano Montealvo  
Alberto Manuel Astiazarán Tobin  
José Salvador Pámanes Guevara

**University of Pennsylvania**
www.upenn.edu  
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**Coach:** Gerald Cain  
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Chuanqi Shen  
Kaidi Yan

**University of Toronto**
www.uwaterloo.ca  
**Team name:** Waterloo  
**Coach:** Gerald Cain  
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**University of Wisconsin, Madison**
www.wisc.edu  
**Team name:** Wisc  
**Coach:** Gerald Cain  
Lingxiao Li  
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**Federal University of Minas Gerais**
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**Team name:** Locos  
**Coach:** Luis Humberto González  
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Alberto Manuel Astiazarán Tobin  
José Salvador Pámanes Guevara

**ITESM Campus Monterrey**
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**Team name:** Locos  
**Coach:** Luis Humberto González  
Javier Cárdenas Choque  
Reynaldo Gil Pons  
José Moraguez Piñol

**Universidad de los Andes, Colombia**
www.unianides.edu.co  
**Team name:** Programmers Mark II  
**Coach:** German Sotelo  
Santiago Ceron  
Emanuel Krivoy  
Rafael Mantilla

**Universidad Federal do Rio de Janeiro**
www.ufrj.br  
**Team name:** Guns N’ Codes  
**Coach:** Marcia Cerioli  
Diego Ximenes Mendes  
Filipe Zhou  
Rodrigo Zhou

**University of Michigan**
www.umich.edu  
**Team name:** Team Ontario  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**University of Pennsylvania**
www.upenn.edu  
**Team name:** Team Wisconsin  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

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**Cornell University**
www.cornell.edu  
**Team name:** Cornell huehue  
**Coach:** Daniel Fleischman  
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Rafael Marinheiro  
Eduardo Fuy Byun  
Trevor Boone  
Jacob Smith  
Tyler Uhlenkamp

**Georgia Institute of Technology**
www.gatech.edu  
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Nathan Cheney  
Zachary Felix  
Marcus Upton

**Harvard University**
www.harvard.edu  
**Team name:** Team Harvard  
**Coach:** John Greiner  
Nick Merritt  
Philip Taffet  
Jose Carlos Vera-Garza

**Iowa State University**
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**Team name:** MIT2  
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Haoran Xu

**University of Maryland**
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Chuanqi Shen  
Kaidi Yan

**University of Pennsylvania**
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Chuanqi Shen  
Kaidi Yan

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**Universidad Privada de Santa Cruz de la Sierra**
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**Coach:** Ricardo Monascal  
Wilmer Bandres  
Jose Piñero  
Jose Sanchez

**Universidad Simón Bolívar**
www.usb.ve  
**Team name:** Team Phoenix  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
Kaidi Yan

**University of Toronto**
www.uwaterloo.ca  
**Team name:** Waterloo  
**Coach:** Gerald Cain  
Lingxiao Li  
Chuanqi Shen  
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**Universidad de Buenos Aires - FCEN**
www.ic.unicamp.br  
**Team name:** Mepalba  
**Coach:** Agustín Santiago Guitarrez  
Melanie Sclar  
Lucas Tavolaro Ortiz  
Ariel Zylber

**Universidad de La Habana**
www.uh.cu  
**Team name:** UH++  
**Coach:** Alfredo Somoza Moreno  
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**University of Pennsylvania**
www.upenn.edu  
**Team name:** Team Pennsylvania  
**Coach:** Gerald Cain  
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**University of Wisconsin, Madison**
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**Team name:** Team Wisconsin  
**Coach:** Gerald Cain  
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University of Calgary
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Karl Augsten
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University of Illinois at Urbana-Champaign
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Joon Young Seo
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University of Waterloo
www.uwaterloo.ca
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Volodymyr Lyubinets
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University of California at Berkeley
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Team name: Berkeley Blue
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Biye Jiang
Luhang Lai
Yi Wu

University of Maryland
www.cs.umd.edu
Team name: University of Maryland
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Sina Dehghani
Soheil Ehsani Banafati
Xi Yi

University of Wisconsin - Madison
www.wisc.edu
Team name: Do you even PSPACE?
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Andrew Morgan
Bryce Sandlund
Menghui Wang

University of California Los Angeles
www.ucla.edu
Team name: UCLA Blue
Coach: Shahid Chohan
Hao Chen
Xin Gao
Chaoshuai Lu

University of Michigan at Ann Arbor
www.umich.edu
Team name: Victors
Coach: Kevin Compton
Yujie An
Zhou Sun
Chun Wu

Virginia Tech
www.cs.vt.edu
Team name: The Traveling Salesmen
Coach: Godmar Back
Benjamin Pruett
Nicholas Sharp
Miraziz Yusupov

University of Central Florida
www.ucf.edu
Team name: UCF Knights
Coach: Ali Orooji
John Boswell
Tyler Brazill
Evan Dorundo

University of Minnesota - Twin Cities
www.umn.edu
Team name: Benchwarmers
Coach: Carl Sturtivant
Mija Jiang
Lucas Knutson
Hidenori Shinohara

University of Southern California
www.usc.edu
Team name: Trojans
Coach: David Kempe
Gaoyuan Chen
Ruixin Qiang
Xinpei Yu

University of Chicago
www.cs.uchicago.edu
Team name: Conjurers of Cheap Tricks
Coach: Borja Sotomayor
Jeremy Archer
Charles Koening
Harrison Weigel

University of Waterloo
www.uwaterloo.ca
Team name: Waterloo Black
Coach: Troy Vasiga
Volodymyr Lyubinets
Deon Nicholas
Geoffry Song

ICPCQuest is an online game designed for World Finals contestants, coaches, volunteers, and fans to interact with each other and win prizes for top Quest scores!

1. Go to myicpc.icpcnews.com
2. Click Quest in the menu
3. Complete tasks with #ICPC2015
4. Watch the leader board and win prizes!

#ICPC2015
AWARDS
**ABOUT THE ICPC AWARDS**

**Mark Measures Distinguished Service Award**

The ICPC Mark Measures Distinguished Service Award is awarded each year to the ICPC volunteer who has played an instrumental role in the success of the ICPC for a period of not less than 15 years. The award winner is selected by a committee of past Measures Award winners.

*Mark Measures is considered one of the pillars of the ACM-ICPC. He first participated as a contestant from Baylor University in 1978 and later served as a key volunteer from 1984 to 1996. Though his life was cut short at 40 years of age, friends and colleagues remember his love for others, love of life and love for learning. His problem solving ability, systems expertise and commitment to the contest, played an instrumental role in the formative years of the ACM-ICPC.*

**UPE Distinguished International Service Award**

The UPE Distinguished International Service Award is presented to an institution that has played an instrumental role in the success of international educational programs for 10 or more years. The award comes with a donation to computer science scholarships.

**Joseph S. DeBlasi Outstanding Contribution Award**

The ICPC Joseph S. DeBlasi Outstanding Contribution Award is awarded each year to the ICPC volunteer who has played an instrumental role in the success of the ICPC for a period of not less than 5 years. The award winner is selected by a committee of senior ICPC volunteers.

*Joseph S. DeBlasi was a champion for the ACM-ICPC during his service as ACM Executive Director from 1989 to 1999, and continues to champion the contest. His efforts have been instrumental in establishing the ACM-ICPC as a competition among the universities of the world with strong industry support.*

**ICPC Outstanding International Service Award**

The ICPC Outstanding International Service Award requires a 10 year commitment. The award comes with a donation to computer science scholarships.

**Coach Awards**

Coach Award requires 5 or more years bringing teams to the World Finals. Senior Coach Award requires 15 or more years bringing teams to the World Finals.

**THE 2015 MARK MEASURES DISTINGUISHED SERVICE AWARD**

**Sidi Ali Maelainin**

President of the Moroccan ACM

for outstanding service to the ICPC as

*Founder of the North Africa & Middle East Region*

in 1998, as director, as advocate and as

*2015 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 ACM International Collegiate Programming Contest for fifteen or more years.

18 MAY 2015
MARRAKECH, MOROCCO
The 2015 Joseph S. DeBlasi Outstanding Contribution Award

Presented to

Ossama Ismail

for providing the foundation, leadership, and zeal that has resulted in a tiered competition that serves universities throughout Arabic countries, quadrupling participation to over 1,000 teams from 20 countries in only five years.

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.

18 May 2015
Marrakech, Morocco

Yousry El Gamal

for providing the foundation, leadership, and zeal that has resulted in a tiered competition that serves universities throughout Arabic countries, quadrupling participation to over 1,000 teams from 20 countries in only five years.

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Presented to

Ossama Ismail
Yousry El Gamal
Mohamed Fouad
Abdel-rahman Mostafa
Mohamed Mahmoud Abd El-Wahab

for providing the foundation, leadership, and zeal that has resulted in a tiered competition that serves universities throughout Arabic countries, quadrupling participation to over 1,000 teams from 20 countries in only five years.

Presented to

Mohamed Fouad

for providing the foundation, leadership, and zeal that has resulted in a tiered competition that serves universities throughout Arabic countries, quadrupling participation to over 1,000 teams from 20 countries in only five years.

18 May 2015
Marrakech, Morocco

18 May 2015
Marrakech, Morocco
Ossama Ismail
Yousry El Gamal
Ahmed El-Sayed
Richard El Gamal
Nicole Hosh
Yomna Darwich
Mohamed Fouad
Abdel-rahman Mostafa
Dalia El Hefny
Mohamed Mahmoud
Abd El-Wahab
THE 2015 UPE DISTINGUISHED INTERNATIONAL SERVICE AWARD

Presented to

Mohammed V University

for hosting local, national and regional contests, and by serving as University Host of the 2015 ACM-ICPC World Finals.

The UPE Distinguished International Service Award is presented annually to an institution or institutions that have played instrumental roles in the success of international educational programs for ten or more years.

18 MAY 2015 MARRAKECH, MOROCCO

THE 2015 UPE DISTINGUISHED INTERNATIONAL SERVICE AWARD

Presented to

Al Akhawayn University

for hosting local, national and regional contests, and by serving as University Host of the 2015 ACM-ICPC World Finals.

The UPE Distinguished International Service Award is presented annually to an institution or institutions that have played instrumental roles in the success of international educational programs for ten or more years.

18 MAY 2015 MARRAKECH, MOROCCO
The UPE Distinguished International Service Award is presented annually to an institution or institutions that have played instrumental roles in the success of international educational programs for ten or more years.

Presented to

Mundiapolis University

for hosting local, national and regional contests, and by serving as University Host of the 2015 ACM-ICPC World Finals.

The Moroccan ACM

for hosting local, national and regional contests, and by serving as Host of the 2015 ACM-ICPC World Finals.

The UPE Distinguished International Service Award is presented annually to an institution or institutions that have played instrumental roles in the success of international educational programs for ten or more years.

18 May 2015
Marrakech, Morocco
Arab Academy of Science and Technology

for hosting local, national and regional contests and for leadership and service to universities by hosting

ICPC Headquarters
in
North Africa and the Middle East.

The UPE Distinguished International Service Award is presented annually to an institution or institutions that have played instrumental roles in the success of international educational programs for ten or more years.

Presented to

Vladimir Kotov
Belarusian State University

15 years of bringing teams to World Finals

In my youth, I participated in many olympiads. Now I like to work with clever students. It helps me get useful information about new algorithms.
It is an unforgettable memory that our team won the championship of regional contest in Jakarta, 2009 which has been the very first one since our team set up in 2001 and I started my coach career in 2008. This awesome championship is a turning point of paramount importance for our team which brings us great support from our university and courageous confidence for our younger members. Even now, I almost cannot describe the amazing excitement of that moment to the new members when I have given a huge hug to my champion team for our assiduous endeavors and I hope this memorable achievement will become the driving force in our current and future team growth.

Peng Yang
University of Electronic Science and Technology of China
6 years of bringing teams to World Finals

My most memorable achievement was getting the first place in last year’s Regional. This was special to me because two of the team members started to participate in our training sessions since their freshman year and without any experience in competitive programming. It was really exciting to see how far they went. Engaged students like them is one of the reasons I enjoy being a coach.

Marcio Takashi Iura Oshiro
University of São Paulo
5 years of bringing teams to World Finals

Being a part of the excitement when teams are able to solve some particularly difficult problem – the “Eureka” moments. Listening to all the teams animatedly discuss, almost non-stop, the different ways to solve regional problems on the two hour bus trip home from the regionals. Being able to provide a forum for growth and development of participants and to watch them apply themselves, gain knowledge, gain confidence, flourish, and take off!

Simanta Mitra
Iowa State University
5 years of bringing teams to World Finals

I started my coaching career in 1999. My most memorable moment in the years of coaching was the first time to participate the World Finals contest in 2007. My team and I were very pleased to meet the best 100 teams in the contest. Since then, the World Finals has become my goal every year.

Yuxing Peng
National University of Defense Technology
5 years of bringing teams to World Finals

Carl Sturtivant
University of Minnesota - Twin Cities
5 years of bringing teams to World Finals
LOCATION
MOROCCO

Geography

The Kingdom of Morocco is located in North Africa, just 14 kilometers south of Europe. It is bounded by the Mediterranean Sea to the North, Mauritania to the South, Algeria to the East and the Atlantic Ocean to the West. Morocco is one of only three countries in the world that have both Mediterranean and Atlantic coastlines.

The Kingdom covers a total surface area of 710,850 square kilometers. The Moroccan coastline extends over 3,500 kilometers. The capital of Morocco is Rabat, its largest city is Casablanca, and its most visited city is Marrakech.

Only a few kilometers from Europe, and stretching all the way to the Sahara desert, Morocco is unique in its diverse landscape: snow-capped peaks of the High Atlas Mountains, craggy Rif massifs full of ravines, dense oak and thuya forests of the Central Plateau, fertile plains of the Meseta, arid lands of the High Plateaus, semi-desert steppes and luxuriant oases of the Souss Basin and Sahara sand dunes.

Climate

The dominant climate in Morocco is Mediterranean, tempered in the west by the Atlantic Ocean. The interior of the country has a more continental climate with major temperature shifts, going from very cold in the winter to quite hot in summer. The Atlas Mountains receive frequent heavy snows. The southern, more arid parts of Morocco have a desert climate. Overall, the climate is dry rather than humid, making it quite comfortable even in the summer.

Each season has its own advantages, but spring and autumn are the best seasons to visit the imperial cities like Fès, Meknès and Marrakech or to take a trip down to the desert dunes.

Brief History

The original inhabitants of Morocco were the Amazigh people who lived in large familial tribes. Because of this lack of unification of authority, Morocco was constantly invaded during the early stages of its development. The Phoenicians, the Carthaginians, the Romans, and the Arabs were all present in Morocco during some period in history.

Following 400 years of Amazigh dynasties emanating from the indigenous tribes of the Atlas Mountains (the Almoravides, Almohades and Merinides, who ruled until 1465), the 16th century saw the arrival of rulers of Arabic origin. The prosperous Saadiens (1554-1603) were able to unify Morocco as one country. In 1659 the Alouites came to the throne and still rule Morocco today.

In addition, Jews and Moors from Spain settled in Morocco and each brought with them their culture and art. France, Spain, and Portugal also left their touch because of their presence in the country at different periods in history. Thus, Morocco’s strong sense of culture comes from the diverse history it has known throughout the years. The food, the traditions, the monuments and buildings all hint to the cultural diversity of Morocco.

Religion

Morocco is predominantly Muslim, with Jewish and Christian minorities.

Language in Morocco

The official language is Arabic, though colloquial Arabic differs greatly from standard Arabic. Varieties of Berber are also spoken by many Moroccans. French is widely used throughout the country, except in the northern regions where Spanish is more predominant. English is also understood, particularly in major tourist destinations like Marrakech.
The name Marrakech originates from the Amazigh (Berber) words mur (n) akush, which means “Land of God.” It is the third largest city in Morocco, after Casablanca and Rabat, and lies near the foothills of the snow-capped Atlas Mountains. It is a few hours from the foot of the Sahara Desert and its location and contrasting landscape has made it an enviable destination in Morocco.

The imperial city of Marrakech was founded in 1062 by Sultan Youssef ben Tachfine who is credited with construction of the great walls that encircle the city. Extended to 19 kms during the Almohade and Saadien dynasties, the spectacular city walls, varying in color between pink and red, are punctuated by 200 square towers (borjs) and nine monumental gates. The prosperity of Marrakech at this time made it a fitting capital for an empire which stretched from Algiers to the Atlantic and from the Mediterranean almost to Senegal.

Marrakech is not only a fantastic city, it is also a symbol of the Morocco that once was, and which still survives here. The streets of the old ochre city are too narrow to allow cars, and tourists searching for the «real» Morocco have turned the medieval structures of Marrakech into good business.

The city is divided into two distinct parts: the Medina, the historical city, and the modern district established by French colonialists called Gueliz or Ville Nouvelle. The Medina is full of intertwining narrow passageways and local shops full of character. In contrast, Gueliz plays host to modern restaurants, fast food chains and big brand stores.

One of the most notable sites in Marrakech is found in the Kasbah. Set in a small garden, the 16th century dynastic tombs of the Saadiens are among the finest examples of Islamic art, not least for the intricate stucco decoration and cedar ceilings of the mausoleum. There are many other monuments in Marrakech. The Koutoubia mosque, the medina, the souks and Jam el-Fnaa square attract most tourists.

Palmeraie Resorts

Twenty year ago, Palmeraie Resorts decided to open their first hotel establishment in the Palmeraie (palm grove) of Marrakech. Today, the 220 hectare resort offers hotels, private villas and residences, a Conference Center, spas, a 27-hole golf course, several restaurants, and more. The hotels include the famous Palmeraie Palace, Hôtel du Golf, le Jardin d’Inès by Christophe Leroy, the Secret Garden villas, and residential hotels: Palmeraie Village and the Pavillion du Golf Club House.

Chez Ali

Chez Ali is a long established attraction in the Palmeraie district of Marrakech. Visitors are treated to a multiple course dinner in Moroccan tents while being entertained by musicians and dancers representing the regions of Morocco, this is followed by a circus style show in a large central arena including displays of horsemanship, gunfire and sometimes fireworks.

Palmeraie Conference Center

The Palmeraie Conference Center is housed in a new-generation palace where aesthetics meets the latest technologies to easily accommodate all kinds of events, including international conferences, gala dinners, dance festivals, weddings, shows and concerts. Strategically located in the heart of the Palmeraie area in Marrakech, the center, with its modular interior, allows different seating layouts. In the Palmeraie Conference Center business meets aesthetics and professionalism.
Volunteers
2015 World Finals
ICPC Volunteers

Michaela Donahoo, ICPC Manager
Jaap Eldering, ICPC Analytics
AbdurRahman ElGammal, ICPCNews Local Video
Roman Elizarov, ICPC Live - Director
Tommy Färnqvist, ICPC Analytics
Taylor First, ICPC Manager and Ceremonies Assistant
Zach First, ICPC Development
Mohamed Fouda, ICPC Director of Logistical Operations
Marc Furon, CLI Symposium
James Gage, ICPC Manager Assistant
Melinda Gage, ICPC Manager Assistant
Mikael Goldmann, Director of World Finals Contest Control System
Michael Goldwater, World Finals Judge
Bjarki Ágúst Guðmundsson, World Finals Contest Control System
Walter Guttmann, World Finals Judge
Felix Halim, CLI Symposium
Greg Hamerly, Word Finals Judge
Fredrik Heintz, ICPC Analytics - Director
Nicole Hosh, ICPCNews - Social Media
Sharon Humphrey, ICPC Registrar
Patrick Hynan, ICPC Deputy Director of Operations
Bettina Johnson, ICPCNews - Social Media Director
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Matvey Kazakov, ICPC Director of Operations
Ben Kelley, ICPC Chief Marshall
Thijs Kinkhorst, ICPC Analytics
Derek Kisman, World Finals Judge
Peter Kuit, World Finals Judge
Ilya Kornakov, ICPC Analytics
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Jan Kuipers, ICPC Analytics
Egor Kulikov, ICPC Analytics
Rob Lake, ICPC Volunteer
Douglas Lane, ICPC SysOps Team
Jacob LaPlante, ICPCNews - Video
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Michael Levin, ICPC Analytics
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Orlando Madrigal, UPE Executive Director
Shahriar Manzoor, Word Finals Judge
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Mark McCready, ICPC HQ Delegation
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Jo Perry, ICPC Director of Judging
Charles Piland, ICPCNews - Photographer
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Ani Villanueva, ICPC News - Video
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Elizabeth Wittliff, ICPC HQ Delegation
Jakub Wojtaszczyk, World Finals Judge
Alexander Wolf, ACM President
James E. Wu, UPE - ICPC Registration
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Moon Jeel Yoo, UPE - ICPC Registration

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Osman Ay, Word Finals Judge
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John Clevenger, ICPC Technical Director
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Hans Domjan, ICPCNews - Producer/Photo Management
Jeff Donahoo, ICPC Deputy Executive Director
Lisa Donahoo, 2015 ICPC World Finals Manager
Volunteers

ACM ICPC World Finals 2015
SPECIAL THANKS

Moroccan Ministries

Royaume du Maroc
Le Chef du Gouvernement

Royaume du Maroc
Ministère de l’Enseignement Supérieur, de la Recherche Scientifique et de la formation des cadres

Royaume du Maroc
Ministère des Affaires Étrangères et de la Coopération

Royaume du Maroc
Ministère de l’intérieur

Royaume du Maroc
Ministère de la Culture

Royaume du Maroc
Ministère du Tourisme

Royaume du Maroc
Ministère de l’Industrie, du Commerce, de l’Investissement et de l’Économie Numérique
SPECIAL THANKS

Premium Host Partner

SPECIAL THANKS

Host Partners

Groupe Credit Agricole du Maroc

Beverage Partner
Event Planner Partner
Hotel Partner

Infrastructure Partner
Beverage Partner
Transportation Partner
Food Partner