ACM
ICPC
World
Finals

ICPC 2014
Ekaterinburg
HOSTED BY UrFU

Europe   Asia

ACM
ICPC

World Finals 2014

sponsored by IBM / hosted by Ural Federal University

2014 World Finals
Ekaterinburg

acm International Collegiate
Programming Contest

IBM® event
sponsor

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World
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ICPC 2014
Ekaterinburg
HOSTED BY UrFU

Europe   Asia

Ural Federal
University

Contents

WELCOME!

The 38th ACM ICPC World Finals in Ekaterinburg is waiting for you! It's time to start the 'Battle of Brains', to show your problem-solving skills, and to have fun. These will be exciting days from June 22, the Registration, to June 25, when the Cup and the medals will find the winners.

And so, welcome to the ACM ICPC World Finals 2014!

Welcome from the Foreign Minister of Russian Federation

I heartily greet all of the participants and guests of the ACM ICPC World Finals hosted in Ekaterinburg this year.

During decades past, ACM ICPC has gained the reputation of being the most prestigious competition for the best student programmer teams from universities in nearly half of the world's countries. We consider hosting two consecutive World Finals in Russia as recognition of our commitment to excellence in programming, problem solving, and Russian science and education in general.

In our world, where high technologies are spreading amazingly fast, the talent and creative energy of the young generation are in special demand. You will carry on the innovative development that sustains global economic growth.

I am sure that the World Finals will not only allow you to show your problem-solving skills, but will let you know each other and learn more about the rich cultural heritage of the capital of the Ural region. That will surely contribute to the atmosphere of friendship and trust that strengthens international cooperation among the young.

I wish you all success at being your best!

Sergey Lavrov
Foreign Minister
of Russian Federation

Welcome from the Governor of Sverdlovsk Region

Dear participants of the World Finals!

Welcome to the Urals! If you ask a Russian, what specific features the 'Ural character' has, the answer most probably will be: sense of purpose, industry and reliability. In fact, the Urals, Sverdlovsk region, is the oldest industrial province of Russia, where metallurgy, mechanical engineering and power production are playing the key role. We are proud to be known as 'the backbone of Russia'!

In the last decades the rapid development of computer technologies has created new fields of economy and totally transformed and modernized old ones. Being the leading center of computer education and science, the Ural Federal University contributes greatly to that process. The fruitful partnership of the university, the regional authorities, and the IT-business are determining the competitiveness of Sverdlovsk region in the global economy of knowledge.

ACM ICPC World Finals is the priority project for Sverdlovsk region. I am sure that the World Finals not only will help us to maintain the leadership in the new economy of knowledge and program solutions, but also will increase the region's attractiveness for investors, stimulating the further growth all across the Urals.

Dear friends! You are to shape the future of the computer technology. I hope that the World Finals held in the Urals will be a key moment in your career, and provide you with new contacts. I wish you all the best of luck!

Yevgeny Kuyvashev

The Governor
of the Sverdlovsk Region

Welcome
Sergey Lavrov
Yevgeny Kuyvashev

Welcome from the Ekaterinburg City Administration

Alexander Yakob

Head of Ekaterinburg City Administration

Dear friends!

Welcome to the 2014 ACM International Collegiate Programming Contest World Finals in Ekaterinburg!

International Collegiate Programming Contest is a major event that attracts attention of not only computer science professionals, but everyone interested in development of modern information technologies in various parts of the world. For over 15 years student teams representing our city have been successfully participating in this prestigious championship, so today we are particularly pleased to host ICPC World Finals here in Ekaterinburg.

Embodying the image of contemporary Russia, Ekaterinburg is one of the largest and most dynamic cities in the country with 1.45 million residents. It is no coincidence that Ekaterinburg was named by international analysts one the world's cities of leading potential, which will define the vector of global development in the coming decades. Ekaterinburg is a modern metropolis with rich history and confident outlook, one of Russia's leading centers for science, culture, social and economic innovations.

Comprehensive support of science and education, including various innovative fields and information technologies, has always been a priority for Ekaterinburg's development, which helped it become a true global city. And the 2014 ACM ICPC World Finals coming here is perfect evidence of that!

Ekaterinburg is an open and friendly city. Every year we welcome guests from all over Russia and the world at various diplomatic, cultural, and sports events of national and global importance. I am confident that the 2014 ACM ICPC World Finals in Ekaterinburg will not only meet the highest organizational standards, but also introduce all the participants to the diverse culture of the Urals, become a vivid and memorable event.

I sincerely wish all the participants of the World Finals intense and interesting competitions and, of course, bright victories. May your success today encourage many new discoveries and become a pledge of confidence in the future!

Welcome from UrFU Supervisory Council

Dear organizers and participants of the ACM ICPC World Finals!

I am glad to welcome you to the heart of Russia, on the border of Europe and Asia, in the city of Ekaterinburg.

Twenty years ago the world didn't know much about our city. The capitals of Russia, Moscow and Saint-Petersburg, are well-known globally. Meanwhile, our city, being an important industrial and scientific center of the country, was 'closed' for the international visitors.

For that very reason international promotion of Ekaterinburg has been at the center of our attention for all these years. The 2014 ACM ICPC World Finals will be a test of our finest hospitality. I know that Ural Federal University and its partners have done a tremendous amount of work to prepare for the contest. Our goal is that the World Finals 2014 will be a bright moment in the history of ICPC, and at the same time, a real festival for the city.

The contest will be held at modern venues. Please take a few minutes to walk along the Dam, visit the Literary Quarter – a part of the old city, or to see the famous cast-iron pavilion in the Museum of Arts. There is much to learn more about the architecture and culture of our city and our land. Many interesting and memorable discoveries are waiting for you! Good luck!

Arkady Chernetsky

Member of the Federal Council of Russia from Sverdlovsk Region, member of UrFU Supervising Council

Welcome from Ural Federal University

Dear guests and participants of the contest!

On behalf of the Ural Federal University I would like to welcome you at the 2014 ACM ICPC World Finals!

Our university is striving for leadership in teaching and research. The computer science is the priority for UrFU. Several academic units and departments of our university are working successfully in this field, starting from the University Lyceum.

The most important center of excellence is UrFU Institute of Mathematics and Computer Science, famous as **mathmech.** The longstanding work of IMCS in establishing the system of programming contests and training bright student teams (three 'bronzes' at ACM ICPC World Finals!) became a solid foundation for hosting the World Finals in Ekaterinburg.

For us, to host the 2014 ACM ICPC World Finals is to make a big step into the international community of universities. I want to express gratitude to Dr. Bill Poucher, ACM ICPC Executive Director. His support, energy and experience made such a step possible.

The Government of the Sverdlovsk Region and the Ekaterinburg City Administration did their best to make your stay at the World Finals comfortable. We are grateful to the Governor of the Sverdlovsk Region, Yevgeny Kuyvashev, and to the Head of Ekaterinburg City Administration, Alexander Yakob, who took the World Finals as one of the most important projects for this year.

While preparing to host the contest, we were supported by our reliable business partners. I want to thank company 'SKB Kontur' and its general director Dmitry Mramorov for the support in several key fields!

I hope that our meeting here, at the World Finals, will be the beginning of the fruitful cooperation in education and research. Today, Ural Federal acquires thousand new friends from all parts of the globe – and there are world's best problem-solvers among them!

Congratulations to all of you! The Ural Federal University is proud of the fact that Earth's brightest students gathered here today. Good luck to you all during the contest!

Victor Koksharov

Rector of the Ural
Federal University

Добро пожаловать в eBurg!

Welcome to the 38th Annual ACM International Collegiate Programming Contest World Finals sponsored by IBM and hosted by Ural Federal University. We have partnered with the UPE Honor Society and ACM to provide you with the finest possible setting here in Ekaterinburg, Russia.

The ACM-ICPC World Finals culminates the efforts of faculty and students from 2,286 universities in 94 countries that placed 32,043 students in teams of three at over 300 regional sites worldwide. The top 122 teams have advanced to the World Finals. Congratulations to the 2014 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 31,677 of your peers at 2,164 other universities 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 "2014 World Champions" prove their worth!

There are so many stars visible in the ICPC Community. UPE has served for 44 years, ACM has served for 38 years, and Baylor University has served for 31 years. Over the 17 years of IBM sponsorship, the ICPC has expanded participation by over 1200%!

Consider the Measures Award recipient, Magaz Asanov and the DeBlasi Award winning ICPC volunteers from Ural Federal University who have brought opportunity and encouraged gifted problem solvers in a radius measured in thousands of kilometers. Their efforts have transformed and enriched their communities. Ekaterinburg, hidden in the heart of Russia, is today "eBurg" with a reach that spans the globe.

Here we are in Ekaterinburg, in the heartland of Russia, in the midst of summer greenery, in a land of industry, mining, and academic excellence. Nestled between the northern and southern ranges of the Ural Mountains, we stand not where continents divide. We stand where continents meet. We stand together to build the strength of mind, character, programming skills, and problem-solving prowess that will bring the 22nd Century to fruition.

Led by Magaz Asanov, Konstantin Bugrov, Dmitri Bugrov, and Rector Victor Koksharov, the Ural Federal University volunteers have made ready an extraordinary experience for all. Let's join them as we look forward to the 2014 World Finals whose medals are forged in the crucible of judges' problems and the energy of the finest 122 teams ever!

Best Wishes!

Welcome from ACM ICPC Executive Director

William B. Poucher

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

Welcome
Victor Koksharov
William B. Poucher

Welcome from
WF Director

Dmitry Bugrov
World Finals Director,
First Vice-Rector of the Ural
Federal University

Dear friends!

I am happy to welcome you in Ekaterinburg!

A year ago you were in Russia – in the Northern Capital, marvelous Saint-Petersburg. Today, you are visiting Ekaterinburg on the border of Europe and Asia. Here, in the very heart of Russia, the World Finals is to be held.

Historically, Ekaterinburg is the city of craftsmen and artisans who could find the precious gems in the bowels of the earth and then cut these into the shining diamonds. The old tales are telling about the wonderful flower of gemstones, which uncovers itself only to the most skillful and consistent craftsmen. And the chase of the perfection was making the artisans to search for a solution until they reach a result that could amaze everyone.

Today, you are searching for the perfection as well, for each programmer is the artisan of problem-solving. And, like a skillful stone-cutter sees a wondrous flower in an ordinary gray stone, so you see the most beautiful and the most rational solution to the problem. This solution is always a wonder of craftsmanship which can almost be sensed.

The preparations for the 2014 ACM ICPC World Finals in Ekaterinburg demanded maximal level of responsibility from our side. We also had to solve some complicated problems! I want to thank my colleagues from the Ural Federal University, who made a huge job to host the contest. And I hope that you will appreciate our efforts.

We are meeting you with smiles on our faces! Whatever the final results of the contest will be, you all are the winners. We are waiting for your insight, your sparkle of thought, and your flash of fantasy.

On behalf of IBM, It is my great pleasure to welcome you to the 38th Annual ACM International Collegiate Programming Contest 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 seventeenth year as sponsor of the World Finals and we are thrilled to be here with you in beautiful Ekaterinburg, Russia.

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 for qualifying for this year's world championship. I know that it has taken a lot of hard work and dedication to get here, and you should all be very proud.

Some of you are part of an extraordinary group of volunteers, including the coaches, regional and site contest directors, who devote an enormous amount of 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 the ICPC leadership and their staff of volunteers, our hosts from Ural Federal University and their supporters, and the IBM team for their outstanding commitment and tireless efforts to make this week a memorable one for all of us.

While you are most certainly focused on World Championship competition on Wednesday, the organizers have put together an exciting adventure-filled week of activities. 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 extended family.

The IBM team looks forward to spending time with you throughout the week. During Tech Trek on Monday, you will meet David Barnes, the Program Director of Emerging Technologies who will speak to us about all of the exciting innovation taking place at IBM. Our Chill Zone will be open in the evenings and there you can meet some of our technical folks and Steve Hamm, co-author of the book, Smart Machines: IBM's Watson and the Era of Cognitive Computing.

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 2014 ACM-ICPC World Finals is finally here! Be proud of what you have already accomplished. Try to get as much as you can out of this extraordinary life experience. Try to relax and have lots of fun this week. The memories that you will make during this exciting and momentous time will remain with you forever!

Welcome from IBM

Alain Azagury

ACM-ICPC
Sponsorship Executive
Director of Technical Strategy
and Member of the IBM
Academy of Technology
IBM Software Group

Welcome from ACM

Welcome to the 38th annual ACM International Collegiate Programming Contest (ICPC) World Finals. Before becoming a highly valued component of ACM activity, ICPC began at Texas A&M in 1970, hosted by the Alpha Chapter of the UPE Computer Science Honor Society. The vigor and excitement of this contest has not diminished over its now 44-year history and, if anything, has become more relevant as the information age has evolved. This year, the event will be held at the Ural Federal University at Ekaterinburg in the Russian Federation.

ACM is deeply grateful to the University team and to IBM for their continued commitment to the ICPC. On behalf of ACM, I thank UPE, the international honor society for computing and information disciplines for its founding and continuing support for 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 2014 World Finalists.

I believe the participants in this competition represent the best qualities of professional computing. You serve as role models for a worldwide population of computer science and computer engineering students. 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 most important international professional society in computer science.

Best wishes!

Vint Cerf
ACM President

Welcome from UPE

It is with pleasure that I welcome you to the 2014 ICPC on behalf of UPE. We recognize and congratulate you for your successes through several levels of regional and international programming competitions, not the least of all because you are here for the World Finals. Your presence here is the only evidence you need to prove that you belong to the most select group of computer programmers in the world. Indeed, this is an outstanding accomplishment and we wish you the best as you strive to win some of the ICPC awards here in Ekaterinburg.

The ICPC World Finals is always an exciting event for UPE. For us, the most important aspect of this event is the luxury of being able to interact with the best and brightest students from various corners of the World. In addition, as we visit new places, we are able to meet new friends, and experience the unique cultural aspects of people who live in this region.

UPE would like to recognize and say Thank You to the hundreds of ICPC volunteers who are here this week. 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, and Ural Federal University, the host for the 2014 ICPC. We salute these individuals, especially those who have served as ICPC volunteers for several years.

Again, welcome to the 2014 ICPC and we hope you will have a wonderful time in Ekaterinburg.

Orlando Madrigal
Ph.D.
Executive Director of UPE

Welcome from SKB Kontur

SKB Kontur supports student competitions on computing in Ekaterinburg since 1996. We always want pupils and students to develop their interest in computing, learn from best coaches, participate and win in contests.

But at that time we could not even imagine that participation in ACM ICPC would become a real sport with cuts, continuous trainings, its own champions and celebrities. And it was next to impossible to imagine that the team from Ural Federal University would once go to the Finals on foot, and SKB Kontur would be a host-partner of such a huge and valuable competition!

ACM ICPC 2014 in Ekaterinburg is a great event for us as well as a great responsibility. We want participants to enjoy our city, ICPC venues, people they meet, and, of course, organization of all the events. Unfortunately we cannot make all the teams feel happy about the results of the Finals. But being among the ACM ICPC top teams is already a victory, and I congratulate you!

It does not matter why you are on the Championship, whether you cannot live without computing, want to find the job of your dream, or just enjoy competitions. In any case the Finals will open new strengths in you and new vistas in life!

Dmitry Mramorov

SKB Kontur
Managing Director

Welcome

Ekaterinburg Founding Fathers -
Willem de Gennin and Vassily Tatischev

The concrete lace of Ekaterinburg Circus over the Iset river

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.

Quite simply, it is the oldest, largest, and most prestigious programming contest in the world.

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 122 teams to the World Championship round - the 2014 ACM-ICPC World Finals sponsored by **IBM** and hosted by **Ural Federal University** – which will be conducted on 25 June 2014 in Ekaterinburg, Russia.

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 **1200%**. This past year, ICPC participation included **32,043** of the finest students and faculty in computing disciplines from **2,286** universities from **94** 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.

Battle of the Brains

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 2013) – This year 32,043 contestants from 2,286 universities in 94 countries on six continents competing at over 300 sites to advance to the World Finals. A record 39,877 students and 5,138 coaches competed in ICPC and ICPC-assisted competition this year. This year set new records in participation.

- **World Finals** (22-26 June 2014, Ekaterinburg, Russia) – Hosted by Ural Federal University, one hundred and twenty-two (122) 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.

The contest pits teams of three university students against eight or more complex, real-world problems, with a grueling five-hour deadline. Huddled around a single computer, competitors race against the clock in a battle of logic, strategy and mental endurance. Teammates collaborate to rank the difficulty of the problems, deduce the requirements, design test beds, and build software systems that solve the problems under the intense scrutiny of expert judges. For a well-versed computer science student, some of the problems require precision only. Others require a knowledge and understanding of advanced algorithms. Still others are simply too hard to solve – except, of course, for the world's brightest problem-solvers.

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

To learn more about the ICPC, please visit **http://icpc.baylor.edu or http://acmicpc.org.**

For full coverage of the World Finals including social media, photos, video, live coverage, and live scoreboard go to ICPCNews, **http://icpc.baylor.edu/icpcnews.**

Visit the ICPC podcast series at **http://battleofthebrains.podbean.com** for insights from past contestants and current IBM executives.

Contest
About the Contest

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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 32,043 contestants from 2,286 universities in 94 countries competed in regional competitions at over 300 sites worldwide. Since the beginning of IBM's sponsorship in 1997, participation has increased more than 1200%.

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

Year	Participation
2013	32 043
2012	29 479
2011	25 016
2010	23 811
2009	21 957
2008	21 327
2007	18 297
2006	16 818
2005	12 327
2004	9 450
2003	8 619
2002	7 086
2001	6 480
2000	5 904
1999	4 368
1998	3 114
1997	2 520

ACM-ICPC Student Participation
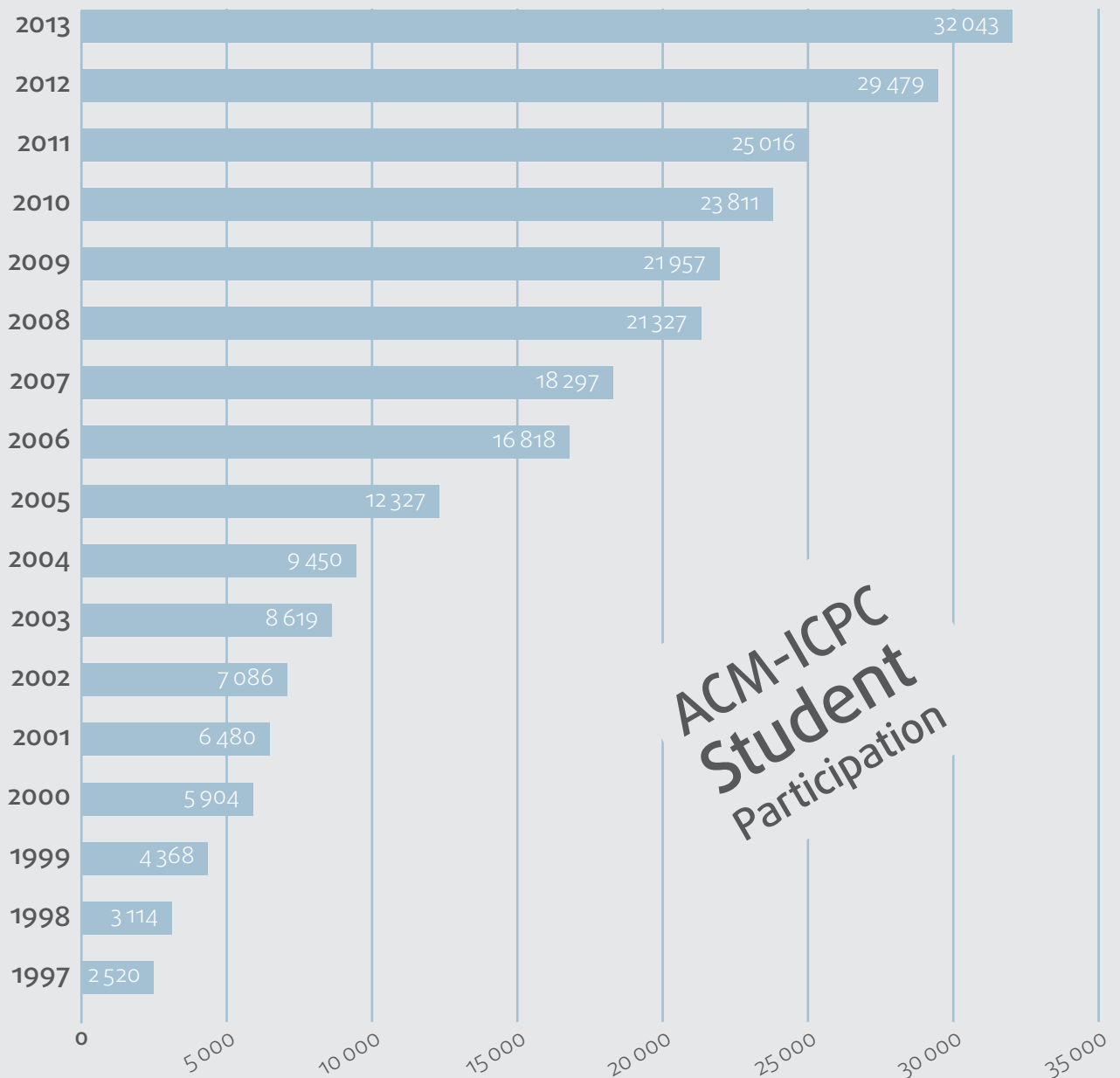
Past Winners

Recent medal winners in order of finish

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 (U. S. A.)
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)

2009 Gold St. Petersburg National Research University ITMO (Russia)

Tsinghua University (China)
St. Petersburg State University (Russia)
Saratov State University (Russia)

Map city labels:

Lethbridge
Houghton
Madison
Ann Arbor
Toronto
Ames
Chicago
Boston (Cambridge)
San Francisco
Pittsburgh
New York
Palo Alto
Blacksburg
Washington
Los Angeles
Nashville
Charlottesville
Orlando
Brownsville
Aguascalientes
Santiago de Cuba
Ciudad de Mexico
Santo Domingo
Pereira
Bogota
Campina Grande
Recife
Lima
Arequipa
Sao Carlos
Rio de Janeiro
Campinas
Sao Paulo
Santiago
Buenos Aires
Cape Town

Cambridge
Delft
Wroclaw
Saarbrucken
Bratislava
Zurich
Zagreb
Barcelona

The markers stands
for the city representation
at World Finals 2014:

· 1 university at World Finals
· 2 universities at World Finals
· 3 universities at World Finals
· > 3 universities at World Finals

North America

- University of Lethbridge
- University of Toronto
- Northwestern University
- University of Chicago
- Iowa State University
- Carnegie Mellon University
- Michigan Technological University
- University of Wisconsin - Madison
- Massachusetts Institute of Technology
- New York University
- University of Central Florida
- University of Maryland
- University of Michigan at Ann Arbor
- University of Virginia
- Vanderbilt University
- Virginia Tech
- Stanford University
- The University of Texas at Brownsville
- University of California Irvine
- University of Southern California
- University of California at Berkeley
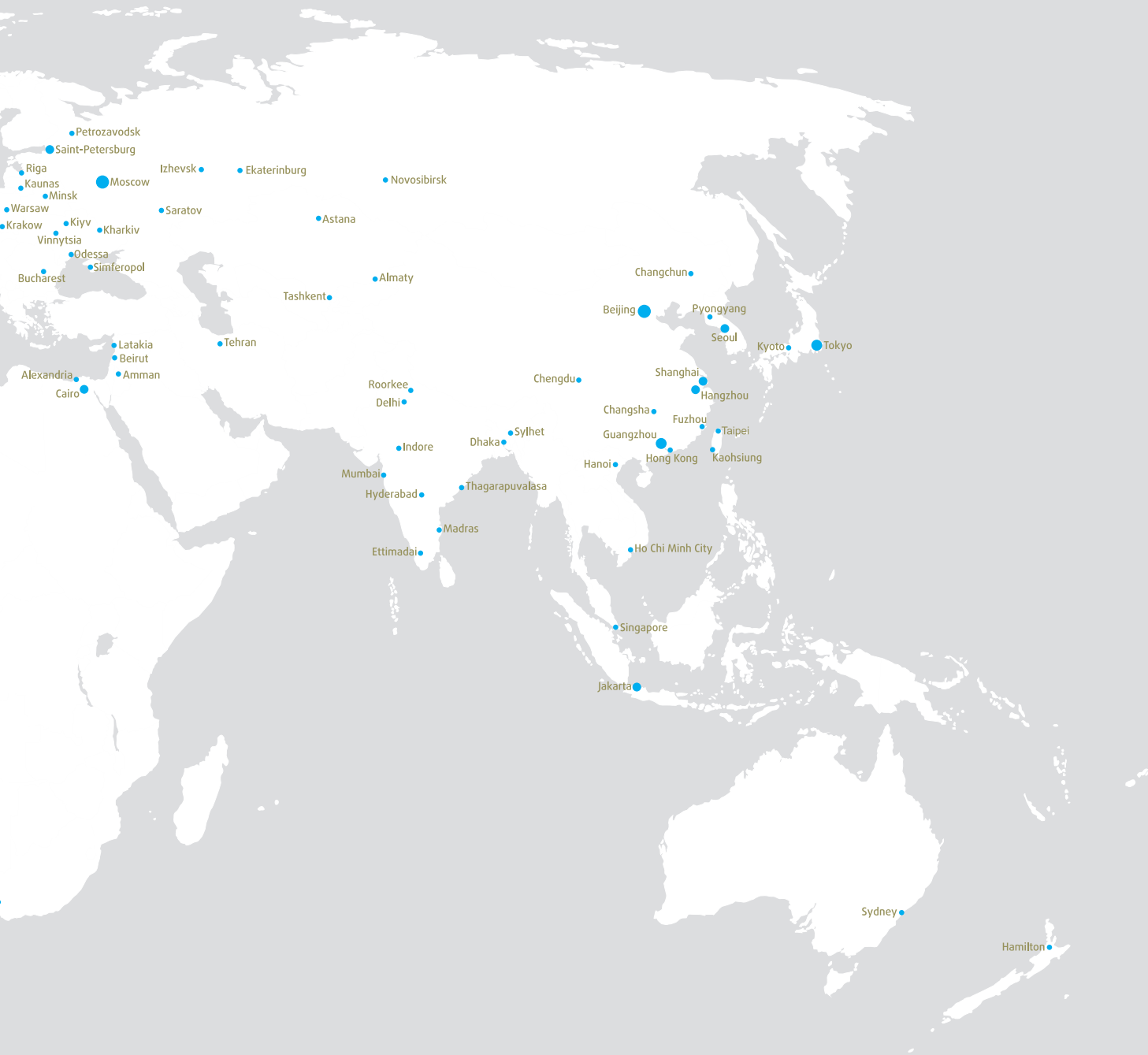
Latin America

- Escuela Superior De Computo Instituto Politecnico Nacional
- Universidad Autónoma de Aguascalientes
- Universidad Panamericana Campus Bonaterra
- Universidad de Oriente - Sede Antonio Maceo
- Instituto Tecnológico de Santo Domingo
- Instituto Militar de Engenharia
- Universidade Estadual de Campinas
- Universidade Federal de Campina Grande
- Universidade Federal de Pernambuco
- Universidade de São Paulo
- Universidade de São Paulo - Campus de São Carlos
- Universidad de Buenos Aires - FCEN
- Pontificia Universidad Católica del Perú
- Universidad Católica San Pablo
- Universidad Nacional de Colombia - Bogotá
- Universidad Tecnologica de Pereira
- Universidad de Chile

Europe

- Delft University of Technology
- ETH Zürich
- Universitaet des Saarlandes
- Universitat Politècnica de Catalunya
- University of Cambridge
- Jagiellonian University in Krakow
- Comenius University
- University of Bucharest
- University of Warsaw
- University of Wroclaw
- University of Zagreb
- Belarusian State University
- Kaunas University of Technology
- Moscow Institute of Physics & Technology
- Moscow State University
- National Research University Higher School of Economics
- National University of Science and Technology "MISiS"
- Odessa National Mechnikov University
- Petrozavodsk State University
- Saratov State University
- St. Petersburg National Research University of IT, Mechanics and Optics
- St. Petersburg State University
- Taras Shevchenko Kiev National University
- Taurida V.I. Vernadsky National University
- V.N. Karazin Kharkiv National University
- Vinnytsia National Technical University
- University of Latvia
- Izhevsk State Technical University
- Novosibirsk State University
- Ural Federal University
- International IT University
- Moscow State University - Tashkent

Petrozavodsk
Saint-Petersburg
Riga
Kaunas
Minsk
Warsaw
Krakow
Kiyv
Vinnytsia
Odessa
Simferopol
Bucharest
Moscow
Izhevsk
Saratov
Ekaterinburg
Novosibirsk
Astana
Almaty
Tashkent
Changchun
Beijing
Pyongyang
Seoul
Kyoto
Tokyo
Latakia
Beirut
Amman
Tehran
Alexandria
Cairo
Roorkee
Delhi
Chengdu
Shanghai
Hangzhou
Changsha
Fuzhou
Guangzhou
Hong Kong
Taipei
Kaohsiung
Hanoi
Indore
Dhaka
Sylhet
Mumbai
Hyderabad
Thagarapuvalasa
Madras
Ettimadai
Ho Chi Minh City
Singapore
Jakarta
Sydney
Hamilton

Asia

- Nazarbayev University
- Beijing Institute of Technology
- Tsinghua University
- Renmin University of China
- Peking University
- Beijing Normal University
- Hunan University
- Fuzhou University
- Fudan University
- Shanghai Jiao Tong University
- University of Electronic Science and Technology of China
- South China Agricultural University
- Zhongshan (Sun Yat-sen) University
- South China University of Technology
- Jilin University
- The Chinese University of Hong Kong
- Zhejiang University

- Zhejiang University of Technology
- National Sun-Yat-Sen University
- National Taiwan University
- Ho Chi Minh City University of Science
- FPT University
- National University of Singapore
- Bina Nusantara University
- University of Indonesia
- Amrita University
- Shahjalal University of Science and Technology
- Bangladesh University of Engineering and Technology
- Anil Neerukonda Institute of Technology and Sciences
- Indian Institute of Technology - Bombay

- Indian Institute of Technology - Indore
- Indian Institute of Technology - Madras
- Indian Institute of Technology - Roorkee
- International Institute of Information Technology - Hyderabad
- Delhi Technological University
- Korea University
- SungKyunKwan University
- University of Sciences DPR Korea
- Kyoto University
- The University of Tokyo
- Tokyo Institute of Technology
- University of Tsukuba

Africa and Middle East

- Alexandria University - Faculty of Engineering
- American University of Beirut
- Cairo University - Faculty of Computers and Information
- German University in Cairo
- Princess Sumaya University for Technology
- Tishreen University
- Sharif University of Technology
- University of Cape Town

South Pacific

- The University of Waikato
- University of New South Wales

Contest
The World of ICPC

World Finals Rules

Team Requirements

Teams qualify to advance to the World Finals through Regional Contests. Only one team from a given institution may advance to the World Finals. Contestants and registered student team members will be provided free one-year memberships in ACM. No team member on the qualifying team may have competed as a contestant in two previous World Finals.

The coach of a qualifying team is the point-of-contact prior to and during World Finals activities. The coach must complete certification at the Team Certification Web Site within five (5) business days of notification. Qualifying teams will be issued an invitation by email and postal mail (if requested) soon after completing certification.

Qualifying teams requiring visas must initiate the process of applying for visas within 10 business days of being issued an invitation. Teams failing to comply with any of these requirements will be ruled ineligible to compete in the World Finals. Upon completion of these requirements, a qualifying team will be advanced to the World Finals.

A team advancing to the World Finals will be comprised of the same three members as when it qualified. (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 Awards Ceremony.

Support and Prizes

Each finalist team will be provided with hotel accommodations for the coach and three contestants for four nights, arriving three days before the World Finals and departing the day after. 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 American Champions, the Latin American Champions, the European Champions, the South Pacific Champions, the Asian Champions, and the Africa & Middle East Champions will also receive plaques.

The World Champion team will be awarded **$12,000**. Each of the other three Gold Medal teams will be awarded **$6,000**. Each Silver Medal team will be awarded **$3,000**. Each Bronze Medal team will be awarded **$1,500**.

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

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

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

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

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

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

A contestant may submit a claim of ambiguity or error in a problem statement by submitting a clarification request. If the Judges agree that an ambiguity or error exists, a clarification will be issued to all contestants. While the contest is scheduled to last five hours, the Finals Director has the authority to lengthen the contest in the event of unforeseen difficulties. Should the Contest duration be altered, every attempt will be made to notify contestants in a timely and uniform manner.

Scoring of the Finals

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

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

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

Computing Environment

The World Finals programming language tools include Java, and C/C++. See the **Programming Environment Web Site**, for detailed configuration information. Prior to the World Finals, the judges will have solved all problems in Java and C/C++. Each team will be provided with a single computer and a calculator. All teams will have equivalent computing equipment. Contestants may not bring any printed materials or machine-readable versions of software or data to the Contest Area. Contestants may not bring their own computers, computer terminals, calculators, or other electronic devices to the Contest Area.

Each team member may bring an unannotated natural language printed dictionary. 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.

Organizers

About ACM

www.acm.org

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

www.ibm.com

With the Smarter Planet initiative, IBM believes intelligence allows for the growth and innovation of human life, including the way people live, work, and govern themselves; the way services are ordered and delivered; and the way the environment is protected. The world is already connected economically, technologically and socially. However, being connected alone is not sufficient. The world needs new generations of talent, leaders and problem solvers to infuse intelligence into our daily lives.

IBM is the world's largest information technology and service provider. Over the last decade, IBM has driven a significant transformation of its business model as the company shifts to higher value areas and improves efficiency of the business. IBM has been building these capabilities to round out the portfolio to address the needs of clients and the society.

IBM has 35,000 software engineers in more than 90 research and development laboratories around the globe, who focus on solving real-world business issues for clients in more than 170 countries. IBM invests in high business values and strategic markets such as Cloud Computing; Business Analytics; Mobile Computing; Smarter Commerce and Social Business. For more information, visit **http://www.ibm.com/software.**

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 Headquarters

www.baylor.edu

Baylor University's Commitment

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

About UPE

http://www.acm.org/upe

Upsilon Pi Epsilon's Commitment

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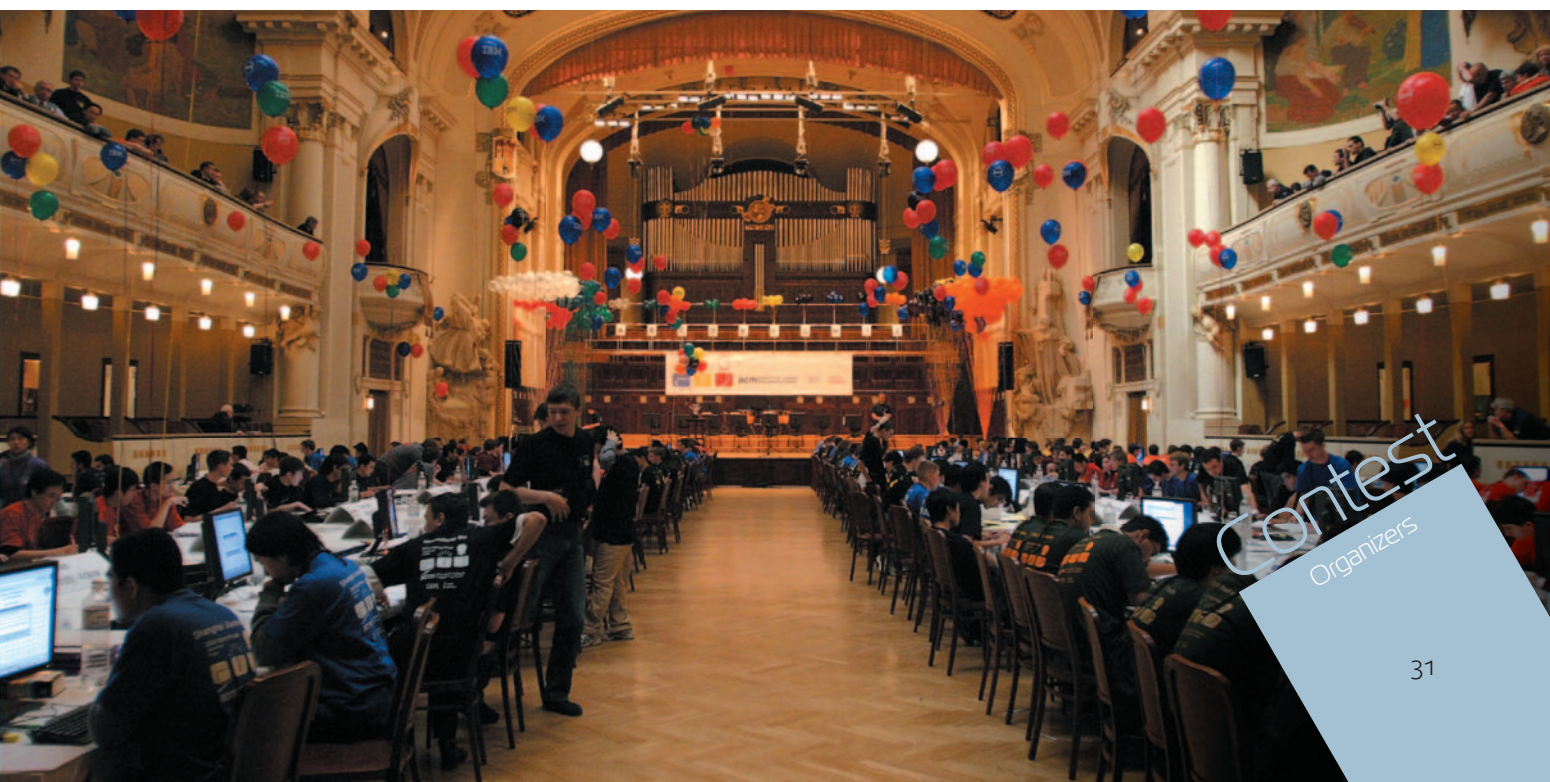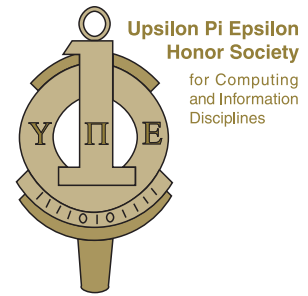
Contest
Organizers

HOST

Ural Federal University, the leading academic center in the very heart of Russia, carries out research in natural science and engineering, social sciences, humanities and economics. UrFU Institute of Mathematics and Computer Science hosts a number of ICPC contests, including NEERC Eastern Subregional Contest.

Ural Federal University

In the Spotlight

Ural Federal University (UrFU) is one of the most important research and education centers in Russia. State-of-the-art research infrastructure allows students to get involved quickly and smoothly into the practical research work, because teaching and research always go hand in hand at the Ural Federal. The vast network of international connections and partnerships include 200 partner institutions worldwide, which are cooperating with UrFU in different aspects.

> More than 50 000 students /
> 1000 international students
>
> More than 6000 academic staff
> and professors
>
> 18 institutes
>
> More than 250 degree programs

The University comprises dozens of research laboratories, centers, and scientific schools, Botanical Gardens and astronomic observatory, Research Library and several museums. All together are working upon the following main research fields:

- Bio- and Chemical Technologies
- Civil Engineering
- Economics and Management
- Energy Development
- Humanities and Arts
- Information Technologies & CS
- Mathematics
- Mechanical Engineering
- Metallurgy
- Natural Sciences
- New Materials and Material Studies
- Nuclear Technologies
- Social and Political Sciences

90 Years of Success

Ural Federal University was founded in 1920, being the first university in the Central Eurasia. Historically, it has the mission of providing support to the sustainable development of Ural region – and to bring alive the vision of brighter future through labor, knowledge and consistency.

> The most famous graduate of UrFU is Boris Yeltsin, the first President of Russia. He graduated from UrFU in 1955 as a civil engineer. Since 2008 the University has borne Boris Yeltsin's name.

Today, UrFU is among the 15 leading universities of Russia that received additional support from the federal government to reach greater international competitiveness. Since 2013, Ural Federal University is implementing the Program of Improvement of International Competitiveness, which also funds the ACM ICPC World Finals 2014.

Our Home

The campus of Ural Federal University is located in the Eastern part of Ekaterinburg. The majestic Main Building which was constructed in 1930s is the centerpiece of the whole district, which is called Vtuzgorodok.

However, you will see the University buildings in the heart of the city. Most probably, you'll see the impressive neo-classical building at the Lenin prospect (pr. Lenina, 51), where the UrFU Institute of Mathematics and Computer Science is located. Another university building (ul. Kuybysheva, 48), which you might see in the proximity of the Atrium Palace, the Panorama and the Onegin Hotel is the UrFU Institute of Natural Sciences, built in the laconic functionalist style of 1920s.

Computer Science at UrFU

Computer science plays an integral role in the development of the university. Actually, there is a real 'university within the university': more than **6000 students** (12% from the overall number) are studying different aspects of computer sciences and IT in 9 institutes (out of 18). And it's no surprise, for every branch of economy nowadays depends on digital technology!

There are three centers of excellence in computer science at UrFU – the **Institute of Information Technology and Radioelectronics,** the **Institute of Physics and Technology,** and the **Institute of Mathematics and Computer Science**. The last one is the true cradle of ICPC contests in Ural region, and hosts a number of contests each year, including the NEERC Eastern Subregional Contest.

www.urfu.ru

Host
UrFU

UrFU Institute of
Mathematics and Computer Science

History

UrFU Institute of Mathematics and Computer Science was established in 1933 as the department of mathematics and mechanics or simply **mathmech**. The leading research groups were specializing in control theory and theory of differential games, ill-posed problems, and algebraic systems. The prominent researchers like **Nikolay Krasovsky**, **Yury Osipov** (the president of the Russian Academy of Sciences in 1991 – 2013), **Valentin Ivanov**, and **Lev Shevrin**, gained Ekaterinburg international recognition as a center of sciences. Today IMCS is recognized as the leader in the field of mathematics and theoretical Computer Science. The computer science education here is established on a solid mathematical basis. Thus, a world-class center of training in computer science emerged through cooperation between academic community, business and society.
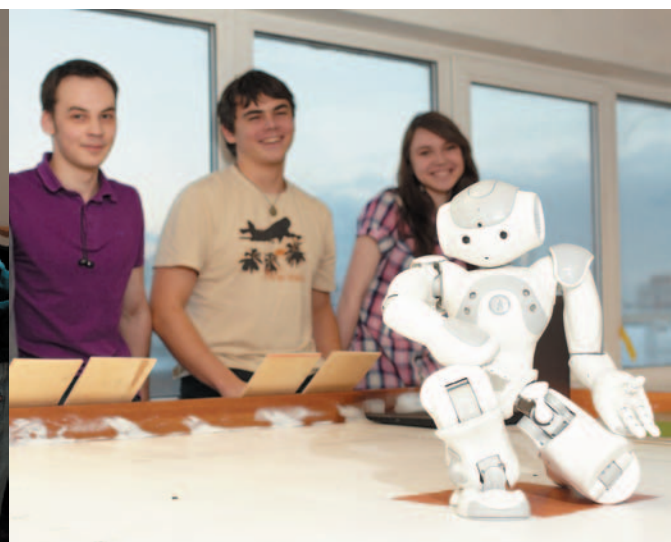
The UrFU Lyceum is also worth mentioning. This specialized secondary school is among the best in Russia in mathematics and physics. The majority of UrFU teams at the ICPC World Finals consisted of the Lyceum graduates.

Fields of Study

IMCS integrates 9 academic & research departments:

- Algebra and Discrete Mathematics
- Computational Mathematics
- Mathematical Analysis and Function Theory
- Mathematical Economics
- Theoretical Mechanics
- High Productivity Computer Technologies
- Information Technology and Management Processes
- Mathematical Physics
- Applied Mathematics

Being an integrated structure, multidisciplinary research center **'Intellectual Systems and Information Security'** studies intellectual systems, robotics, operating systems, languages and automata theory, information protection. Every year it hosts **RuCTF,** Russia's first contest in information protection under the 'Capture the Flag' rules.

We have to mention the UrFU Lyceum. This specialized secondary school is among the best in Russia in mathematics and physics. The majority of UrFU teams at the ICPC World Finals consisted of the Lyceum graduates.

The Cradle of ICPC at the Urals

The distinctive feature of IMCS is the students' involvement into numerous programming contests and tournaments held by the Institute. Many of them are based on ICPC rules. The most important of them are:

- ACM-ICPC NEERC Quarterfinals
- UrFU Open Championship (team and individual)
- Ural Open Championship
- Ural Programming Olympiad for Secondary Schools

The first major Ural contest in ACM rules, the Ural Open Championship, was held in 1997 by IMCS. In 1998 the Ural Open acquired the status of ACM-ICPC NEERC Quarterfinals. In addition, the UrFU Open Championship is being held since 2000.

One might call UrFU the cradle of ICPC at the Urals! The head of the Institute, **Magaz Asanov**, is the director of all these contests since the very first time they were held at UrFU.

In 2006 the Quarterfinals and the Ural Open were parted. The former is held in autumn and serves as qualification for the vast NEERC Eastern Subregion. The latter was moved to spring and quickly became one of the largest open tournaments in Russia, which went international in 2013. The contests are supported by **SKB Kontur** and other regional companies.

All the contests hosted by UrFU are also available with Timus Online Judge. It's the largest Russian archive of programming problems with an automatic judging system, hosted by UrFU IMCS at acm. timus.ru.

UrFU at ICPC World Finals

Year	Location	Final Standings	UrFU Institute
1998	Atlanta, USA	17	Institute of Physics and Technology
1999	Eindhoven, The Netherlands	Honorable Mention	IMCS
2001	Vancouver, Canada	14, bronze	IMCS
2005	Shanghai, China	17	IMCS
2006	San-Antonio, USA	Honorable Mention	IMCS
2007	Tokyo, Japan	26	IMCS
2008	Banff, Canada	23	IMCS
2009	Stockholm, Sweden	20	IMCS
2010	Harbin, China	13, bronze	IMCS
2011	Orlando, USA	11, bronze	IMCS
2012	Warsaw, Poland	18	IMCS
2013	St. Petersburg, Russia	14	IMCS

JUDGES
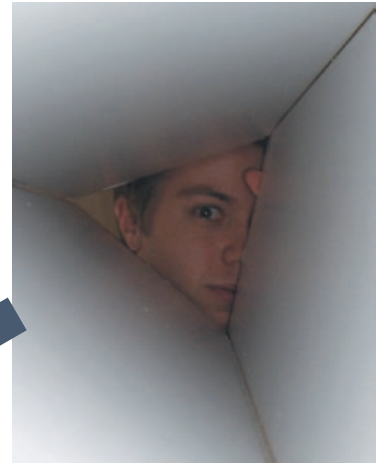
13 outstanding persons
created problems for you to solve
at ACM ICPC World Finals 2014

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.

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.

Osman Ay

Computer Science Publishing Director, Surat Publishing
World Finals judge since 2002

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

Babak Behsaz

University of Alberta
World Finals judge since 2013

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

John Bonomo

Westminster College
World Finals judge since 2002 / World Finals Chief Judge since 2010

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

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

Greg Hamerly

Baylor University
World Finals judge since 2014

Judges

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 good luck, and fun, of course.

I wish you to enjoy the World Finals and to make this week a pleasant lifetime memory.

Martin Kacer

Czech Technical 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

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 Russia 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

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!

Jo Perry

NC State University
World Finals judge since 1987 / Director of Judging since 2010

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

Matthias Ruhl

Google
World Finals judge since 1997

I've been involved with the contest in many roles since the mid 1970^s. 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?

Stan Wileman

University of Nebraska - Omaha
World Finals judge since 1979
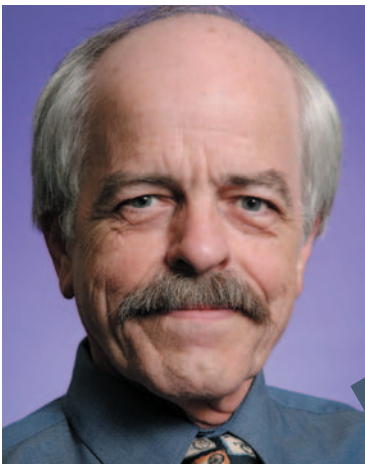
In 2010 Dick retired as Director of Judging, but continues working with the World Finals judges.

Dick Rinewalt

Texas Christian University
World Finals judge since 1982;
Director of Judging (many years)

Judges

TEAMS

122 teams will compete at ACM ICPC World Finals 2014 in Ekaterinburg. They represent 6 global regions. And they are the best problem-solvers in the world!

Africa and Middle East

**Alexandria University –
Faculty of Engineering**

www.alexeng.edu.eg

Team name: ftw
Hazem Ibrahim
Ahmed Ibrahim
Mahmoud Radwan
Coach: Ahmad Mamdouh

American University of Beirut

www.aub.edu.lb

Team name: Labneh
Sevag Donikian
Ibrahim Hammoud
Mikael Mofarrej
Coach: Nagi Nahas

**Cairo University –
Faculty of Computers and
Information**

www.fci.cu.edu.eg

Team name: Bugs Factory
Ahmed Elsaid
Marwan Naggar
Mohamed Osama
Coach: Mohamed Abd
El-Wahab

German University in Cairo

met.guc.edu.eg

Team name: ++Neutrinos
Omar ElAzazy
Rami Khalil
Mostafa Mahmoud
Coach: Mohamed
Abouhamra

**Princess Sumaya University
for Technology**

psut.edu.jo

Team name: Need For
Speed
Husam Abugharbia
Hasan Alhamsh
Abdullah Bahosain
Coach: Ashraf Ahmad

Tishreen University

www.tishreen.edu.sy

Team name: Titans
Haidar Abboud
Mohammad Asad
Gaith Hallak
Coach: Alaa Jarad

University of Cape Town

www.uct.ac.za

Team name: If Cats
Programmed Computers
Kieren Davies
Yaseen Hamdulay
Sean Wentzel
Coach: Bruce Merry

South Pacific

The University of Waikato

www.cs.waikato.ac.nz

Team name: Trigraph
Matthew Law
Tom Levy
Ryan Smith
Coach: Bill Rogers

**University
of New South Wales**

www.cse.unsw.edu.au

Team name: UNSW1
Steven Fan
Casey Roberts
Raveen de Silva
Coach: Aleks Ignjatovic

Amrita University

www.amrita.edu

Team name: Amritans
Krishnan Nakul
Sachith G. Pai
Kaushik Surikuchi
Coach: Bhadrachalam
Chitturi

Anil Neerukonda Institute of Technology and Sciences

www.anits.edu.in

Team name: randomly
Sai Aishwarya Betha
Sindhura Katta
Anudeep Nekkanti
Coach: Sajja Ratan Kumar

Bangladesh University of Engineering and Technology

www.buet.ac.bd

Team name: [MAX+7]
Prasanjit Barua
Mohammad Hafiz Uddin
Pratyai Mazumder
Coach: Mohammad Saifur
Rahman

Beijing Institute of Technology

www.bit.edu.cn

Team name: BIT_laser
Yaobo Liang
Xingchen Liu
Yi Yi
Coach: Yonggang Lin

Beijing Normal University

www.bnu.edu.cn

Team name: latte
Siyuan Li
Bowei Zhang
Li Zhao
Coach: Su Feng

Bina Nusantara University

www.binus.ac.id

Team name: Panda Shu
Daniel Agusta
Vincentius Madya
Jennifer Santoso
Coach: Muhsin Shodiq

Delhi Technological University

www.dce.edu

Team name: moduli
Sameer Jain
Arpit Mittal
Aman Singhal
Coach: Manoj Kumar

FPT University

www.fpt.edu.vn

Team name: Runes of
Champion
Vinh Thinh Ho
Trung Hieu Lang
Thanh Trung Nguyen
Coach: Anh Dung Huynh

Fudan University

www.fudan.edu.cn

Team name: Angstrom
Ziyang Chen
Qilin Dong
Lu Liu
Coach: Weiwei Sun

Fuzhou University

www.fzu.edu.cn

Team name: Hallucination
Qing Lu
Nan Yang
Liang Zhong
Coach: Yingjie Wu

Ho Chi Minh City University of Science

www.hcmus.edu.vn

Team name: HCMUS-
Accepters
Yen Thanh Le
Thuyen Phan Van
Huu Quan To
Coach: Nguyen Son Tung
Pham

Hunan University

www.hnu.edu.cn

Team name: ACgege
Li Jinmeng
Liang Ping
Long Shuai
Coach: Hao Wu

Indian Institute of Technology – Bombay

www.iitb.ac.in

> **Team name:** Dracarys
> Piyush Kumar
> Balajiganapathi
> Senthilnathan
> Gautam Sumu
> **Coach:** Pushpak
> Bhattacharyya

Indian Institute of Technology – Indore

www.iiti.ac.in

> **Team name:** Paradigm Shift
> Gaurav Agrawal
> Archit Karandikar
> Sanjeev Shenoy
> **Coach:** Abhishek Srivastava

Indian Institute of Technology – Madras

www.iitm.ac.in

> **Team name:**
> GreenLeafPluckers
> Srivatsan Balakrishnan
> Sabarinath N P
> A Guru Prakash
> **Coach:** Shankar
> Balachandran

Indian Institute of Technology – Roorkee

www.iitr.ernet.in

> **Team name:** 3Spades
> Harsh Jhamtani
> Surya Kiran
> Praneeth Reddy
> **Coach:** Vinod Pankajakshan

International Institute of Information Technology – Hyderabad

www.iiit.ac.in

> **Team name:** illusion
> Pulkit Goel
> Smit Hinsu
> Nishant R Krishan
> **Coach:** Venkatesh Choppella

Jilin University

www.jlu.edu.cn

> **Team name:**
> AlarmClockMemo
> Junxiong Cai
> Shuai Shao
> Jiahao Zhang
> **Coach:** Qiang Li

Korea University

www.korea.ac.kr

> **Team name:** Balloonphilia
> Eun-ki Hong
> WonCheol Lee
> Seung-jae Lee
> **Coach:** Jin-Young Choi

Kyoto University

www.kyoto-u.ac.jp

> **Team name:** YellowYell
> Shogo Ehara
> Shoichi Nishimura
> Tomohiro Oka
> **Coach:** Seiichi Kondo

National Sun-Yat-Sen University

www.nsysu.edu.tw

> **Team name:** TCQQ
> Bi-Shiang Lin
> Ching-Che Lin
> Cheng-Shih Wong
> **Coach:** Chang-Biau Yang

National Taiwan University

www.ntu.edu.tw

> **Team name:** TwT514
> Ting-Wei Chen
> Pao-Yu Chien
> Jui-Min Lee
> **Coach:** Pu-Jen Cheng

National University of Singapore

www.nus.edu.sg

> **Team name:** ThanQ
> Nathan Azaria
> Quang Cao Luu
> Jonathan Irvin Gunawan
> **Coach:** Steven Halim

Peking University

www.pku.edu.cn

> **Team name:** Obsidian
> Yufei Du
> Xiangyu Luo
> Zekun Ni
> **Coach:** Guojie Luo

Renmin University of China

www.ruc.edu.cn

> **Team name:** kingbase_Acme
> Jiao Su
> Handa Wang
> Daopeng Wang
> **Coach:** Qing Zhu

Shahjalal University of Science and Technology

www.sust.edu

> **Team name:** SUST_Attoprottoyee
> Nafis Ahmed
> Syed Shahriar Manjur
> Imtiaz Shakil
> **Coach:** Debakar Shamanta

Shanghai Jiao Tong University

www.sjtu.edu.cn

> **Team name:** Secret;Weapon
> Xiaoxu Guo
> Qi Liu
> Haobin Ni
> **Coach:** Yong Yu

Sharif University of Technology

www.sharif.edu

> **Team name:** Shir-e-Aab
> MohammadReza Maleki
> Danial Mehrjerdi
> Seyed Hamed Valizadeh Toosi
> **Coach:** Kamran Bavar

South China Agricultural University

www.scau.edu.cn

> **Team name:** SCAU_Bear Kids
> Yongsheng Li
> Guoqiang Ma
> Yongsen Yang
> **Coach:** Xiangji Chen

South China University of Technology

www.scut.edu.cn

> **Team name:** SCUT_Yamiedie
> Feng Lin
> Kunhong Xu
> Chunwei Zheng
> **Coach:** Chuhua Xian

SungKyunKwan University

www.skku.ac.kr

> **Team name:** JunheeIsCute>_<
> Jun-Hee Han
> Gyeong-Geun Kim
> Yeon-su Park
> **Coach:** Euiseong Seo

The Chinese University of Hong Kong

www.cse.cuhk.edu.hk

> **Team name:** Xpanders
> Pak Hay Chan
> Man Hin Jeffrey Hon
> Dawei Huang
> **Coach:** Lap Chi Lau

The University of Tokyo

www.u-tokyo.ac.jp

> **Team name:** wakaba
> Ikumi Hide
> Kengo Nakasuka
> Ryoga Tanaka
> **Coach:** Tomoyuki Kaneko

Tokyo Institute of Technology

www.titech.ac.jp

> **Team name:** binding.pry
> Shogo Kishimoto
> Osamu Koga
> Kotaro Osada
> **Coach:** Shohei Mochizuki

Tsinghua University

www.tsinghua.edu.cn

> **Team name:** NowOrNever
> Lijie Chen
> Qiwei Feng
> Qinshi Wang
> **Coach:** Xiaojun Wu

University of Electronic Science and Technology of China

www.uestc.edu.cn

> **Team name:** UESTC_Aspidochelone
> Yuehang Chen
> Gufeng Chen
> Zi Liao
> **Coach:** Peng Yang

Teams
Asia

University of Indonesia

www.cs.ui.ac.id

    Team name: +1 2.0
    Alham Fikri Aji
    Ashar Fuadi
    William Gozali
    Coach: Denny Denny

University of Sciences DPR Korea

    Team name: RedStar1
    HyonChol Kyong
    CholUng Ri
    MunChol Ri
    Coach: CholGyong Kim

University of Tsukuba

www.tsukuba.ac.jp

    Team name: pipe.txt
    Takaaki Hiragushi
    Isamu Takagi
    Shunsuke Takano
    Coach: Claus Aranha

Zhejiang University

acm.zju.edu.cn

    Team name: eternal reality
    Weijie Chen
    Kai Jiang
    Xiaoyao Yu
    Coach: Can Wang

Zhejiang University of Technology

www.zjut.edu.cn

    Team name: Keine
    Zhikai Ma
    Dong Shan
    Yuan Shen
    Coach: Shanshan Han

Zhongshan (Sun Yat-sen) University

www.sysu.edu.cn

    Team name: SYSU_ ArthasMenethil
    Zhi Liu
    ZiHong OuYang
    Jianchang Zhang
    Coach: SongShan Guo

Europe

Belarusian State University

www.bsu.by

    Team name: Belarusian SU #1
    Yauheni Hrytskevich
    Aliaksei Kolesau
    Aliaksandr Nekrashevich
    Coach: Vladimir Kotov

Comenius University

www.uniba.sk

    Team name: Docikáme ďalej
    Tomáš Belan
    Peter Fulla
    Ján Hozza
    Coach: Michal Forišek

Delft University of Technology

www.tudelft.nl

    Team name: geen.opdracht5
    Jan Elffers
    Harmjan Treep
    Robbert van Staveren
    Coach: Thomas Verwoerd

ETH Zürich

www.ethz.ch

    Team name: ETH ✚ ¯_(ツ)_/¯
    Nikola Djokic
    Daniel Graf
    Johannes Kapfhammer
    Coach: Jan Hązła

International IT University

www.iitu.kz

    Team name: IITU 1
    Alexander Bolshakov
    Vladimir Chzhen
    Mansur Kutybaev
    Coach: Danabek Kaliazhdarov

Izhevsk State Technical University

www.inter.istu.ru

    Team name: Izhevsk STU: СуперМуТаНТbl
    Nikita Burlakov
    Boris Smirnov
    Dmitry Sutygin
    Coach: Victor Kamashev

Jagiellonian University in Krakow

www.uj.edu.pl

    Team name: Jagiellonian
    Jakub Adamek
    Igor Adamski
    Piotr Bejda
    Coach: Pawel Idziak

Kaunas University of Technology

www.ktu.lt

    Team name: KTU1
    Karolis Kusas
    Vilius Pranckaitis
    Evaldas Čiakas
    Coach: Mindaugas Vasiljevas

Moscow Institute of Physics & Technology

www.mipt.ru

    Team name: The Sun
    Georgy Chebanov
    Alexander Mashrabov
    Filipp Rukhovich
    Coach: Dmitry Zhukov

Moscow State University

www.msu.ru

> **Team name:** Moscow SU
> Tapirs
> Gleb Evstropov
> Victor Omelyanenko
> Mikhail Pyaderkin
> **Coach:** Anton Pankratiev

**Moscow State University –
Tashkent**

www.msu.uz

> **Team name:** MSU Tashkent 1
> Anastasiya Bistrigova
> Timur Sitdikov
> Bekhzod Soliev
> **Coach:** Shukhrat Sheraliev

**National Research University
Higher School of Economics**

www.hse.ru/lingua/en/

> **Team name:** Viral Team
> Vyacheslav Alipov
> Mikhail Kolupaev
> Alexander Kouprin
> **Coach:** Sergey Gayfullin

**National University of Science
and Technology "MISiS"**

www.en.misis.ru

> **Team name:** MISiS
> Valentine Kofman
> Andrey Lopukhov
> Anton Ovchinkin
> **Coach:** Vladimir Kurenkov

Nazarbayev University

www.nu.edu.kz

> **Team name:** NU 1
> Anuar Dikhanov
> Nurlan Kanapin
> Adilet Zhaxybay
> **Coach:** Sergey Makagonov

Novosibirsk State University

www.nsu.ru

> **Team name:** Novosibirsk SU 1
> Georgy Beloshapko
> Alexander Stenenko
> Vadim Zaytsev
> **Coach:** Tatyana Churina

**Odessa National Mechnikov
University**

www.imem.odessa.ua

> **Team name:** ONU 1 2/3
> Yurii Monastyrshyn
> Fedir Poliakov
> Sergii Sklianichenko
> **Coach:** Oleg Petrov

Petrozavodsk State University

www.petrsu.ru

> **Team name:** Petrozavodsk SU
> Valeriy Filev
> Nikita Ioffe
> Anton Shapovalov
> **Coach:** Alexander Fedulin

Saratov State University

www.sgu.ru

> **Team name:** Saratov SU 1
> Gerald Agapov
> Ivan Fefer
> Vitaliy Kudasov
> **Coach:** Michael Mirzayanov

**St. Petersburg National
Research University of IT,
Mechanics and Optics**

www.ifmo.ru

> **Team name:** SPb NRU ITMO 01
> Adam Bardashevich
> Boris Minaev
> Artem Vasilyev
> **Coach:** Andrey Stankevich

St. Petersburg State University

www.spbu.ru

> **Team name:** SPb SU 4
> Dmitry Egorov
> Pavel Kunyavskiy
> Egor Suvorov
> **Coach:** Andrey Lopatin

**Taras Shevchenko Kiev National
University**

www.univ.kiev.ua

> **Team name:** BZFlags
> Roman Iedemskyi
> Andrii Maksai
> Iaroslav Tverdokhlib
> **Coach:** Vitalii Bondarenko

Teams

Asia
Europe

Taurida V.I. Vernadsky National University

www.tnu.crimea.ua/eng/index.html

Team name: Phantom Menace
Yevhen Derhachov
Ibragim Ismailov
Oleksandr Lyashko
Coach: Oleksandr Kozlov

Universitaet des Saarlandes

www.uni-sb.de

Team name: COMEFROM Saar
Juliane Baldus
Karol Konaszyński
Fabian Kunze
Coach: Paweł Gawrychowski

Universitat Politècnica de Catalunya

www.upc.edu

Team name: Max-troll Min-nut
Alex Alvarez
Ivan Geffner
Dario Nieuwenhuis
Coach: Salvador Roura

University of Bucharest

www.unibuc.ro

Team name: Unibuc_ BigDawgs
Mihai Calancea
Alexandru Cazacu
Andrey Grigorean
Coach: Dumitran Adrian Marius

University of Cambridge

www.cam.ac.uk

Team name: Beuler
Domagoj Cevid
Boris Grubic
Bogdan-Cristian Tătăroiu
Coach: Andrew Rice

University of Latvia

www.lu.lv

Team name: unusual
Karlis Senko
Jevgenijs Vihrovs
Normunds Vilcins
Coach: Guntis Arnicans

University of Warsaw

www.uw.edu.pl

Team name: Warsaw Eagles 2014
Jarosław Błasiok
Tomasz Kociumaka
Jakub Oćwieja
Coach: Jan Madey

University of Wroclaw

www.uni.wroc.pl

Team name: UWr1
Anna Piekarska
Tomasz Syposz
Jakub Tarnawski
Coach: Krzysztof Lorys

University of Zagreb

www.unizg.hr

Team name: Zagreb
Stjepan Glavina
Ivan Katanic
Goran Žužić
Coach: Kresimir Malnar

Ural Federal University

www.urfu.ru

Team name: Ural FU 1
Alexander Krasnoselskikh
Oleg Merkurev
Denis Mukhametianov
Coach: Mikhail Rubinchik

V.N. Karazin Kharkiv National University

www.univer.kharkov.ua/en

Team name: SobolevTeam
Vitalii Iarko
Ievgen Soboliev
Dmytro Soboliev
Coach: Grygoriy Zholtkevych

Vinnytsia National Technical University

www.vstu.vinnica.ua

Team name: VNTU_ [wRabbits]
Mykhailo Granik
Sergii Kashubin
Oleh Morfiianets
Coach: Volodymyr Mesyura

Latin America

Escuela Superior De Computo Instituto Politecnico Nacional

www.escom.ipn.mx

Team name: Hurones Pwneadores
Ethan Adrian Jiménez Vargas
Juan Carlos Pérez Alvarez
Edgar Augusto Santiago Nieves
Coach: Edgardo Adrian Franco Martinez

Instituto Militar de Engenharia

www.ime.eb.br

Team name: Timelino
Geraldo Avelino
Jonathan Carvalhosa
Felipe Rasinhas
Coach: Claudia Justel

Instituto Tecnológico de Santo Domingo

www.intec.edu.do

Team name: In yo' face!
Carlos Toribio
Nelson Vladimir Taveras Lopez
Jeffrey Soriano Sanchez
Coach: Carlos Joa

Pontificia Universidad Católica del Perú

www.pucp.edu.pe

Team name: Los Chobys del Averno
Jesus Figueroa
Jose Miguel Noblecilla
Andre Quispesaravia
Coach: Walter Erquínigo

Universidad Autónoma de Aguascalientes

www.uaa.mx

Team name: Peludos
Francisco Javier Alarcón Esparza
Flavio Hernández González
Juan Antonio Ruiz Leal
Coach: Eduardo Serna-Pérez

Universidad Católica San Pablo

www.ucsp.edu.pe

Team name: Bugs, Lucas y Coyote
Aldo Paolo Culquicondor Ruiz
Jainor Néstor Cárdenas Choque
Joshimar Córdova Monroy
Coach: Walter Erquínigo

Universidad Nacional de Colombia – Bogotá

www.unal.edu.co

Team name: UNALgorithm
Edward Lesmes
Diego Said Niquefa Velásquez
Jaime Andrés Silva Velosa
Coach: Rafael Alberto Niquefa Velásquez

Universidad Panamericana Campus Bonaterra

www.up.edu.mx

Team name: Los Chidory
Fernando Ignacio Arreola Gutiérrez
Francisco Javier Gutierrez Gutierrez
Eric Raúl Valdivia Lozano
Coach: Óscar Dávalos Orozco

Universidad Tecnologica de Pereira

www.utp.edu.co

Team name: UTP 0x7DD
Diego Alejandro Agudelo España
Juan David Gil Lopez
Manuel Felipe Pineda
Coach: Hugo Humberto Morales Peña

Universidad de Buenos Aires – FCEN
www.exactas.uba.ar

Team name: Melarita
Melanie Sclar
Lucas Tavolaro Ortiz
Ariel Zylber
Coach: Agustin Santiago
Gutierrez

Universidad de Chile
www.dcc.uchile.c

Team name: Alonso y los
Strawberries
Rodrigo Alonso
Francisco Montoto
Christian von Borries
Coach: Jorge Perez

Universidad de Oriente – Sede Antonio Maceo
www.uo.edu.cu

Team name: Napster
Guillermo Javier Blanco
Amaro
Reynaldo Gil Pons
José Moraguez Piñol
Coach: Javier Sardiñas Sierra

Universidade Estadual de Campinas
www.ic.unicamp.br

Team name: I Triple Dare
You
Lucas Tiago de Castro Jesus
Douglas Oliveira Santos
Igor Wolff Resplande
Coach: Marcelo Galvão
Póvoa

Universidade Federal de Campina Grande
www.dsc.ufcg.edu.br

Team name: Calma pessoal,
calma...
Mateus Carvalho Dantas
Danilo Pimenteira Melo
Nascimento
Phyllipe Cesar Ramos de
Almeida Medeiros
Coach: Rohit Gheyi

Universidade Federal de Pernambuco
www.cin.ufpe.br

Team name: Não é só pelos
20 minutos!
Sérgio Filho
Davi Pinheiro
Pedro Silvestre
Coach: Liliane Salgado

Universidade de São Paulo
www.usp.br

Team name: Bitelo
Marcos Kawakami
Antonio Roberto de Campos
Junior
Stefano Tommasini
Coach: Marcio Oshiro

Universidade de São Paulo – Campus de São Carlos
www.icmc.usp.br

Team name:
Ñtemtempabobagi
Bruno Junqueira Adami
Luís Fernando Dorelli de
Abreu
Bianca Madoka Shimizu Oe
Coach: Filipe de Carvalho
Nascimento

North America

Carnegie Mellon University
www.cmu.edu

Team name: CMU1
Aram Ebtekar
Bo Ma
Ajay Ravindran
Coach: Danny Sleator

Iowa State University
www.iastate.edu

Team name: Autobots
Minsuk Kang
Mingwei Lin
Tyler Uhlenkamp
Coach: Simanta Mitra

Massachusetts Institute of Technology
web.mit.edu

Team name: MIT1
Yuzhou Gu
Rumen Hristov
Linh Nguyen
Coach: Richard Peng

Michigan Technological University
www.cs.mtu.edu

Team name: MTU Magenta
Thomas Holmes
Ryan McNamara
Eric Rinkus
Coach: David Poplawski

New York University
www.nyu.edu

Team name: Bagel Flavored Debugging
Fabian Gundlach
Danilo Ribeiro
Bowen Yu
Coach: Evan Korth

Northwestern University
northwestern.edu

Team name: Wildcats
Siyuan Cai
Ed Kim
Zeyu Wang
Coach: Peter Dinda

Stanford University
www.stanford.edu

Team name: Stanford Cardinal
Jack Chen
Hy Hieu Pham
Joshua Wang
Coach: Gerald Cain

The University of Texas at Brownsville
www.utb.edu

Team name: Ocelot
Ali-Amir Aldan
Reynaldo Rea
Satzhan Sitmukhambetov
Coach: Liyu Zhang

University of California Irvine
www.uci.edu

Team name: UCI constructors
Nick Ajalat
Michael Cappe
Alan Castro
Coach: Richard Pattis

University of California at Berkeley
www.berkeley.edu

Team name: Berkeley Blue
Yan Duan
Lewin Gan
Biye Jiang
Coach: Paul Hilfinger

University of Central Florida
www.ucf.edu

Team name: UCF Knights
Travis Meade
Antony Stabile
Daniel Wasserman
Coach: Ali Orooji

University of Chicago
www.cs.uchicago.edu

Team name: Conjurers of
Cheap Tricks
Jeremy Archer
Charles Koenig
Harrison Weigel
Coach: Borja Sotomayor

University of Lethbridge
www.uleth.ca

Team name: Pronghorns
Farshad Barahimi
Darcy Best
Christopher Martin
Coach: Howard Cheng

University of Maryland
www.cs.umd.edu

Team name: UMD TERPS
Scott DellaTorre
Dylan Ladwig
Rizeng Zheng
Coach: Mohammadtaghi
Hajiaghayi

University of Michigan at Ann Arbor
www.umich.edu

Team name: Victors
Yujie An
Zhou Sun
Chun Wu
Coach: Kevin Compton

University of Southern California
www.usc.edu

Team name: USC Trojans
Jun Chen
Ruixin Qiang
Zhiyi Xu
Coach: David Kempe

University of Toronto
www.toronto.edu

Team name: University of
Toronto Blue
Brian Bi
Saman Samikermani
Yuanhao Wei
Coach: Carolyn MacLeod

University of Virginia
www.acm.cs.virginia.edu

Team name: foo
Leiqing Cai
Jinyan Liu
Shuaihao Zhang
Coach: Aaron Bloomfield

University of Wisconsin – Madison
www.wisc.edu

Team name: Connecting the
Dots is NP-hard
Andrew Morgan
Hongkai Pan
Baasanbat Purevjal
Coach: Dieter van
Melkebeek

Vanderbilt University
www.vanderbilt.edu

Team name: Vanderbilt_1
Mungo Sammons
Xujie Si
Weichen Wang
Coach: Julie Johnson

Virginia Tech
www.cs.vt.edu

Team name: Backspace
Matthew Dallmeyer
Michael O'Beirne
Nicholas Sharp
Coach: Godmar Back

Cast-iron pavilion was awarded Grand Prix at Exposition Universelle (Paris, 1900)

AWARDS

Every year, ICPC honors the persons and organizations that demonstrated an extraordinary commitment and made a significant contribution into the contest growth.

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 Abacus Award

The UPE Abacus Award is UPE's most esteemed award, given annually to an individual who has gained international renown in the profession, and over a period of several years has provided extensive support and leadership for student related activities in the computing and information disciplines.

UPE Distinguished International Service Award

The UPE Distinguished International Service Award (DISA) is presented to an institution that has played an instrumental role in the success of international educational programs for ten 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 2014
Mark Measures
Distinguished Service Award
presented to:

Magaz Asanov,
Ural Federal University

for outstanding service to the ICPC since 1996 as Founder and Director of the ICPC Quarter Finals in Ekaterinburg, for advancing ICPC throughout Russia and the surrounding countries, and as key member of the 2014 World Finals Organizing Committee.

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.

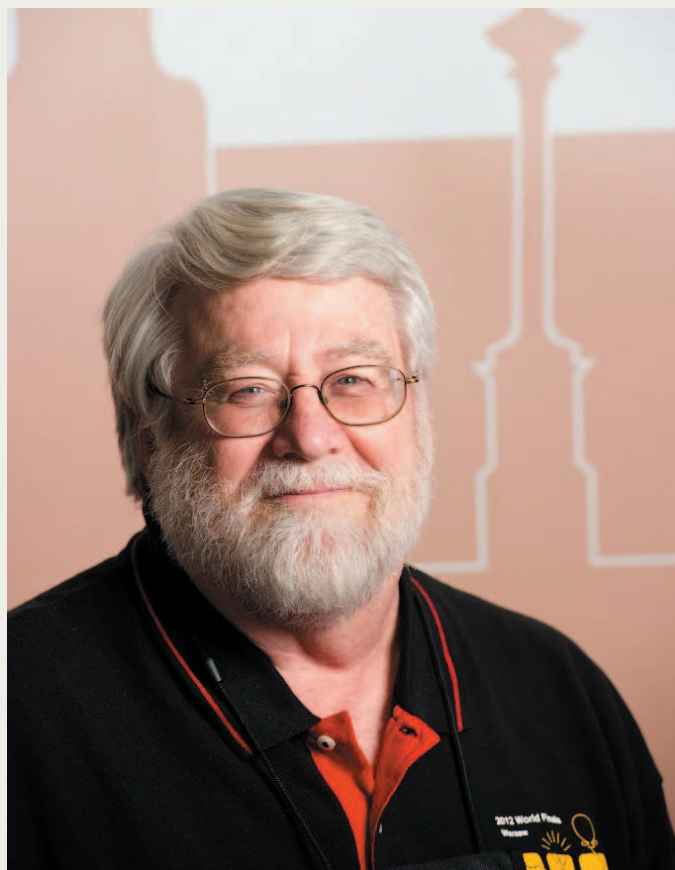23 June 2014
Ekaterinburg, Russia

Awards
Mark Measures
Award

The 2014

UPE Abacus Award

presented to:

James Comer,

ACM-ICPC Director of Regional Contests

The UPE Abacus Award is UPE's most esteemed award, given annually to an individual who has gained international renown in the profession, and over a period of several years has provided extensive support and leadership for student related activities in the computing and information disciplines.

The 2014
UPE Distinguished
International Service Award
presented to

Ural Federal University

Victor Koksharov
Dmitry Bugrov
Raisa Ivanitskaya
Konstantin Bugrov

in recognition of the university's accomplishments by her teams, for hosting local contests, national quarterfinals and international contests, for providing Internet training facilities, and serving as University Host of the 2014 ACM-ICPC World Finals.

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

23 June 2014
Ekaterinburg, Russia

Awards
UPE Abacus Award
UPE DISA

The 2014
Joseph S. DeBlasi
Outstanding Contribution Award
presented to

Ural Federal University
Institute of Mathematics & Computer Science

Magaz Asanov

Pavel Atnashev

Evgueni Chtykov

Denis Dublennykh

Alexander Halperin

Alexander Ipatov

Alexander Klepinin

Mikhail Rubinchik

Alexey Samsonov

Stanislav Vasilyev

Leonid Volkov

Vladimir Yakovlev
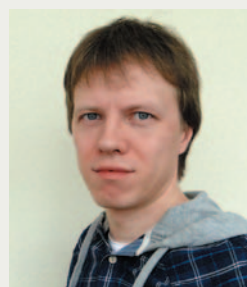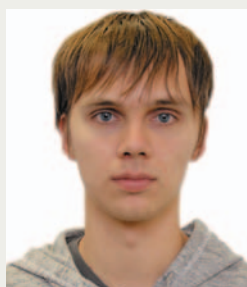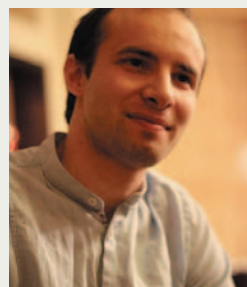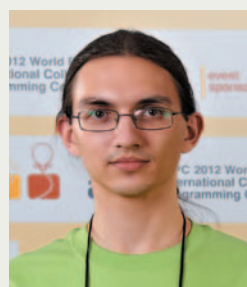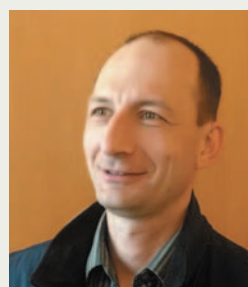
for founding, directing, coaching, judging, and producing ICPC competitions in the Ural region since 1996 and promoting participation in Russia and neighboring countries, and hosting the 2014 World Finals in Ekaterinburg.
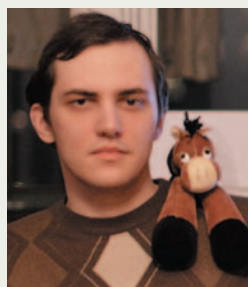
The Joseph S. DeBlasi Outstanding Contribution Award is presented annually to a person or group who has played an instrumental role in the success of the ICPC for five or more years.

23 June 2014
Ekaterinburg, Russia

The 2014
ICPC Outstanding
International Service Award
presented to

IBM

Alain Azagury

Brenda Chow

Debbie Kilbride

Mark Guan

Rod D'Silva

Tim deBoer

Chris Kale

Vasile Petrasuc

Steve Dale

Steve Mills (no photo)

in recognition of IBM's steadfast
support since 1997 as
ACM-ICPC Sponsor

IBM has raised the aspirations and capabilities of a generation of problem solvers worldwide and has shined the global spotlight upon them.

The ICPC Outstanding International Service Award is presented to an institution that has played an instrumental role in the success of international extra-curricular educational programs in the computing sciences and engineering for ten or more years.

23 June 2014
Ekaterinburg, Russia

Awards
DeBlasi Award
ICPC OISA

Coach Awards

I want to explore student's potential of independent learning and to organize the programming competition in the University and the Province. My goal is also to encourage them to compete and to establish a platform for them to interact with each other.

Songshan Guo

Zhongshan (Sun Yat-sen) University

Senior Coach Award

Coach Abdennadher believes that coaching is about empowering others. I personally enjoy coaching with the ultimate goal of teaching my team what it takes to succeed in life.

Slim Abdennadher

German University in Cairo

I love seeing the enthusiasm that it generates in the students. Students of all types really enjoy participating in the practices and contests, even when they don't make it into the world finals. Even at the high school level (we run a large high school programming contest), it really increases their interest in the field, and motivates them to learn more.

Aaron Bloomfield

University of Virginia

I enjoy working with talented, enthusiastic young people. This includes not only the team members I've coached over the years, but also the assistant coaches who have contributed so much to our success. My most memorable achievement was in 2011 when the University of Michigan Victors (Mark Gordon, Qifeng Chen, and Jonathan Plotzke) placed 2nd at ICPC World Finals and won a gold medal.

Kevin Compton

University of Michigan at Ann Arbor

To date, my most memorable achievement is getting a women's programming team started at UCF. For nearly 10 years, we had only one woman on our team out of over 100 team members I've helped coach. In 2012, with the blessing of our head coach, Dr. Ali Orooji, I embarked on training a women's programming team. In the first year we had 5 participants and this year, our second year, we have 7 participants.

In just one year, we increased the number of women in the top 40 of our team tryouts from 1 to 5. The women on our team are very motivated and learning very quickly. My hope is that in five years or so, we'll consistently have several women on our team and hopefully at least one on a World Finals team

Arup Guha

University of Central Florida

Our most noteworthy result was achieved by the team from Petrozavodsk State University in 2009 when they became the first at one of the strongest competitions, the North-Eastern European Regional Contest. This team also got bronze and silver medals at the World Finals in 2007 and 2009 correspondingly. And one more bronze medal was won by another team. It is a great honor to teach and train talented students who attain world-class results.

Vladimir Kuznetsov

Petrozavodsk State University

Awards
Coach Awards

What I enjoy most about being a coach is communicating with very intelligent people. The vast majority of those who are involved in the ICPC activity (contestants, coaches, organizers) are not only highly-skilled specialists in mathematics, programming and computational complexity – they have encyclopedic knowledge and a wide range of interests. People of unquenchable curiosity, they willingly share their knowledge and experience with other competitors and many of them value this opportunity to improve themselves much higher than just formal achievements.

Anton Pankratiev

Moscow State University

I like the atmosphere of competition in the programming contest. On the other hand, training sessions and regular events not only develop sports skills but also help students to get much knowledge in computer science and experience practicing programming and teamwork. For me, the most memorable achievement was the decision to award the Petrozavodsk team with an additional bronze medal in Tokyo-2007 and a follow-up award ceremony organized by Bill Poucher during Petrozavodsk's Programming Camp in 2008.

Denis Vlasov

Petrozavodsk State University

What I enjoy most about being a coach is the sense of achievement and satisfaction I get from coaching the ACM/ICPC team of Fuzhou University. For a coach, the fact that your teaching can help students to solve interesting and challenging problems and improve their personal and professional lives is very motivating. The "reward" attached to coaching students is non-tangible. Sometimes, it's just a smile… but a smile can be worth a thousand words.

Yingjie Wu

Fuzhou University

TIMUS ONLINE JUDGE

acm.timus.ru

What is Timus?

It's the Russia's largest archive
of programming problems
with an automatic judging system

Timus is used to host international
programming competitions online

Improve your problem-solving skills!

Ural Federal University

LOCATION

With the help of local community we committed the whole ICPC Zone in the heart of the city to host the World Finals. It includes the Palace of Team Sports (DIVS) and the Cosmos Concert Hall. All the food functions are served at the Cosmos Restaurants, which are adjacent to the Cosmos Concert Hall. The special bus shuttles will help you to travel easily between the ICPC Zone and your hotel.

Take a look around! Historical landmarks are surrounding the place. And you can see more during the walking excursion along the Ekaterinburg Red Line.

Venues

Palace of Team Sports (DIVS)

This Palace contains the most advanced sport and technical equipment and welcomes dozens of international contests every year. For instance, in 2014, the European basketball championship for club teams was held there.

And now the Palace of Team Sports is committed by the Government of the Sverdlovsk Region to host the Battle of the Brains – ACM ICPC World Finals. On June 24, the DIVS Big Arena will host the Dress Rehearsal, and on June 25, it will host the contest itself. Also, there will be an ICPC Live studio, a convenient space for watching online broadcasts, and a comfortable press center. All-inclusive!

Cosmos Concert Hall

This venue is your 'second home' for the 4 days of the contest, 22 – 25 June (well, except for the sleeping time). Cosmos is recognized as the best concert hall in the Ural region, and it is provided for the World Finals by the Ekaterinburg City Administration to make the ICPC guests feel at home.

On June 22, the Team Registration will be held in the foyer of the Cosmos ground floor. The Opening Ceremony will be held on June 23 in the Big Hall, which can seat up to 2 000 persons. And on June 25 in the same Big Hall the ACM ICPC World Champion 2014 will be announced during the Closing Ceremony.

Expect to find many more features at the Cosmos! Every evening, the IBM Chill Zone will create a comfortable environment for fun and relaxation. The IBM Tech Trek also will be held there on June 23. And the surrounding green area will provide several pleasant surprises.

Cosmos Restaurants

It's the biggest restaurant complex in the Urals, which could seat 1 000 persons at the same time. There are several halls in the Cosmos Restaurants, which differ in appearance and decoration. The host volunteers will help you get around.

Reach for a summer terrace on the roof: there is a wonderful view over the City Pond!

Free Wi-Fi coverage is provided both at DIVS and at Cosmos with the help of Host Technical Partner, Dom.ru. Our volunteers will help you to get the password and establish a connection. We want you to share photos, twit, or check MyICPC easily.

Transport & Communication

Transport

Every day from June 22 to June 25 the special buses will be taking you to ICPC Zone and back. There are 4 routes, and each of them is marked with color. Please, remember which route connects your hotel with the bus station in the ICPC Zone.

In the morning, the buses will be departing at the same time, so please **do not miss the departure time!** In the afternoon and evening you can decide by yourself when to go back to the hotel, using the shuttle buses.

Where to find the ICPC bus schedule?
- at www.icpc2014.ru
- at the reception of your hotel / ICPC venue foyer
- at MyICPC

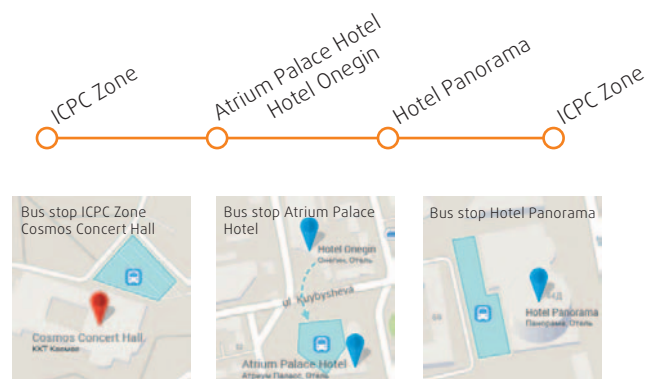Also you can always ask the volunteers to help you with any transportation issue.
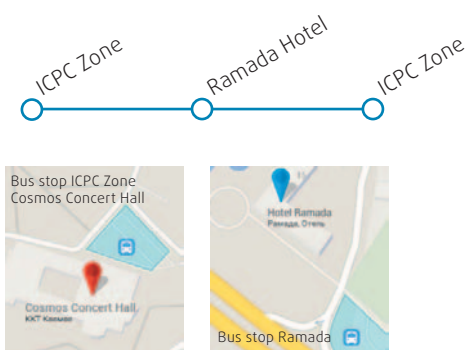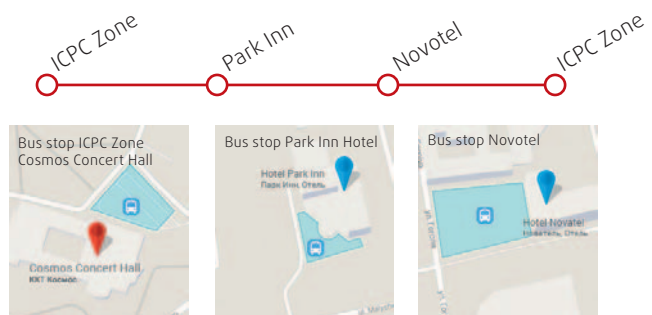
Communication

The use of 7 hotels and the special transportation scheme means that more attention has to be paid to the issues of communication. Courtesy of Beeline, World Finals Communication Partner and Russia's leading mobile operator, we provide each ICPC guest a local SIM card to communicate for free within the network with the other guests, the ICPC volunteers, and the World Finals Call Centre.

We recommend you to use at least the following phone numbers:
- your teammates and coach
- your hotel volunteer
- World Finals Call Centre

The **World Finals Call Centre** is operated by the host and is permanently available 24 hours a day. The Centre serves also as an emergency contact in a situation when there's no host volunteer nearby.

ICPC Zone — Green Park Hotel — ICPC Zone

Bus stop ICPC Zone Cosmos Concert Hall

Bus stop Green Park Hotel

ICPC Zone — Park Inn — Novotel — ICPC Zone

Bus stop ICPC Zone Cosmos Concert Hall

Bus stop Park Inn Hotel

Bus stop Novotel

ICPC Zone — Ramada Hotel — ICPC Zone

Bus stop ICPC Zone Cosmos Concert Hall

Bus stop Ramada

ICPC Zone — Atrium Palace Hotel / Hotel Onegin — Hotel Panorama — ICPC Zone

Bus stop ICPC Zone Cosmos Concert Hall

Bus stop Atrium Palace Hotel

Bus stop Hotel Panorama

Location
ICPC Zone

Hotels

Green Park Hotel

http://www.greenhotel.ru/
Narodnoy Voli st., 24
+7 (343) 222-00-24

The name of the hotel derives from the proximity of an old monastery park. Five minute walk, and you may see the magnificent Alexander Nevsky Cathedral, which was built in 1854.

Onegin

http://www.hotelonegin.com/
Rosy Luxemburg st., 49
+7 (343) 310-38-38

The hotel's name is taken from Alexander Pushkin's poem 'Evgeny Onegin', classical poem for Russian literature. Later, Petr Tchaikovsky wrote an opera of the same name. In each room you might find a volume of Pushkin's masterpiece.

Atrium Palace Hotel

http://atriumhotel.ru/
Kuybysheva st., 44
+7 (343) 359-60-00

Next to the hotel's door, there is old Troitsky (Holy Trinity) Cathedral, which was built in 1839. Down the Rosy Luxemburg street, you might see some of the finest merchants mansions of 19th century, including the extravagant red-brick house of Alexey Zheleznov.

Panorama

http://www.hotelpanorama-ural.ru/
Kuybysheva st., 44, lit D.
+7 (343) 359-6-359

The hotel has a panoramic view indeed. It overlooks the park where the building of UrFU Institute of Natural Sciences is located. Just turn around the corner, and you are at the main entrances of Atrium Palace or Onegin.

Novotel

http://www.novotel.com
Engels st., 7
+7 (343) 253-53-83

Around Novotel, the 19th century traditional wooden houses are curiously neighboring the modern concrete-and-glass buildings. In 10 minutes you can get to Lenin Avenue, the city's main street. Otherwise, you can walk to the river to see the giant QWERTY.

Park Inn

http://www.parkinn.com/hotel-ekaterinburg
Mamina Sibiryaka st., 98
+7 (343) 216 6000

The very long grey building near the hotel is the House of Industry– a 'horizontal skyscraper' constructed in 1937. If you walk along the House of Industry for 10 minutes, you will pass the Opera Theatre and reach Ural Federal University!

Ramada

http://www.ramadayekaterinburg.com
10 km of the highway Ekaterinburg a/p «Koltsovo», 15
8 800 5555 099

Well, there's no reason to walk somewhere from Ramada, for it is located outside the city. But there's enough to explore inside the hotel – for instance, spa pools!

DIVS Hotel

http://en.divsport.ru
Eremina st., 10
+7 (343) 359-37-20

Location
Hotels

eBurg at a Glance

Ekaterinburg is the fourth biggest Russian city. It is situated on geographical border between Europe and Asia in the heart of the vast Ural region.

> The border of Europe and Asia is not just an imaginary line. In fact, it is looping along a separation line between the watersheds of two great rivers: Volga (in Europe) and Ob (in Asia). It's a rare example of a border without customs and passport control!

The Factory Fortress (18 – 19th centuries)

Ekaterinburg was founded in 1723 as a factory and fortress. Later it became the center of the vast Ural mining industrial region. The City Pond was created for factory purposes – the machinery had to be powered by the energy of falling water. The historical dam (Plotinka) still stands as a memorial of the city's foundation. Today, a historical square occupies the place where factory stood. In the 19th century, Ekaterinburg became one of stations on the Trans-Siberian Railway which runs from Moscow to Vladivostok on the shore of Pacific Ocean.

The true gems of the old Ekaterinburg are the private houses of merchants and local officials. Most of these, for example, Kharitonov Palace or Sevastyanov House, can be seen during the Red Line tour. The houses of citizens with less fortune were either wooden, or had the first floor of stone, and the second of wood, usually with impressive wood carvings.

The house of merchant Agafurov, end of 19th century

Another Agafurov's house, this time with Moslem ornaments in decorations

The Second Birth (20th century)

After the Russian revolution of 1917, the city was given a new name, Sverdlovsk. It became a center of technology, science and education (remember, in 1920 Ural Federal University was established). The central part of the city was rebuilt in a new, rationalistic fashion. New style, which was based upon the strict geometric forms and the absence of decorations, is known as 'constructivism' and had tremendous influence upon the modern architecture. The examples of such style are Dynamo Sport Complex, the Truda Square, or the famous 'commune' houses.

The old Ekaterinburg of merchants and entrepreneurs was transformed into a socialist utopia of Sverdlovsk. Instead of private houses, larger 'communes' and 'clubs' for the working class were constructed. Very little private space and no kitchen – the people were expected to prefer well-regulated public life to privacy. Indeed, 'communes' were 'dwelling factories', with their own centralized clubs, canteens, hospitals, and nurseries. Thus, architecture was meant to change the society.

The New Era (21st century)

After the dissolution of Soviet Union in 1991, Ekaterinburg returned to its historical name. Commerce, financial services, and the IT-sphere started to grow, as well as the transportation and communication systems. Koltsovo Airport was turned into a modern and comfortable international transport hub.

Soon, Ekaterinburg became one of the most dynamic Russian cities. A visible embodiment of that growth is the high-rise architecture of 'Ekaterinburg-City' on the Western shore of the City Pond, with the Hyatt Regency hotel and the impressively tall Iset Tower. In 2018 Ekaterinburg will host FIFA World Cup.

Today, Ekaterinburg is a large, thriving, and rapidly developing city, which is happy to open itself to the world.

A Martian tripod? In fact it's a constructivist watering tower

The parabola-style commune house in 'Gorodok Chekistov'

Location

eBurg

77

Temple-on-the-Blood

This grandeous Christian temple dominates the area. It was built in 2003 on the site of an old house where the family of the last Russian czar, Nicholas II, was killed in 1918 during the Russian Revolution. The temple is the memorial to the tragic event. At the entrance, you'll see the sculptures of the martyrs – the czar and his family.

Dynamo Sport Complex

From the Cosmos Concert Hall, you might see a white-and-blue building that resemble a sailing ship right on the shore of the City Pond. This is the **Dynamo Sport Complex** – a masterpiece of Soviet avant-garde constructivist architecture, built in 1934 by architect Sokolov.

Dynamo was the very first sport complex in the city – a fitness hall, a shooting range, and a football stadium all together. Its forms are symmetric, and the appearance is lacking any decorations – such was the artistic credo of that time. Walk along this landmark to enjoy the view of Ekaterinburg across the mirror of water.

Voznesenskaya Gorka

There is a hill behind the Temple-on-the-Blood, which is called Voznesenskaya Gorka. The luxurious house on the top of the hill was built by a wealthy merchant Lev Rastorguev by the end of 18th century. In the beginning of 19th century, his son-in-law, industrialist Petr Kharitonov, rebuilt the house into a real palace and established the park with a rotonda nearby. Next to Kharitonov palace stands the baroque church of 18th century, which gave name to the place – Voznesenskaya Church.

ICPC LIVE

coverage by

SKB Kontur
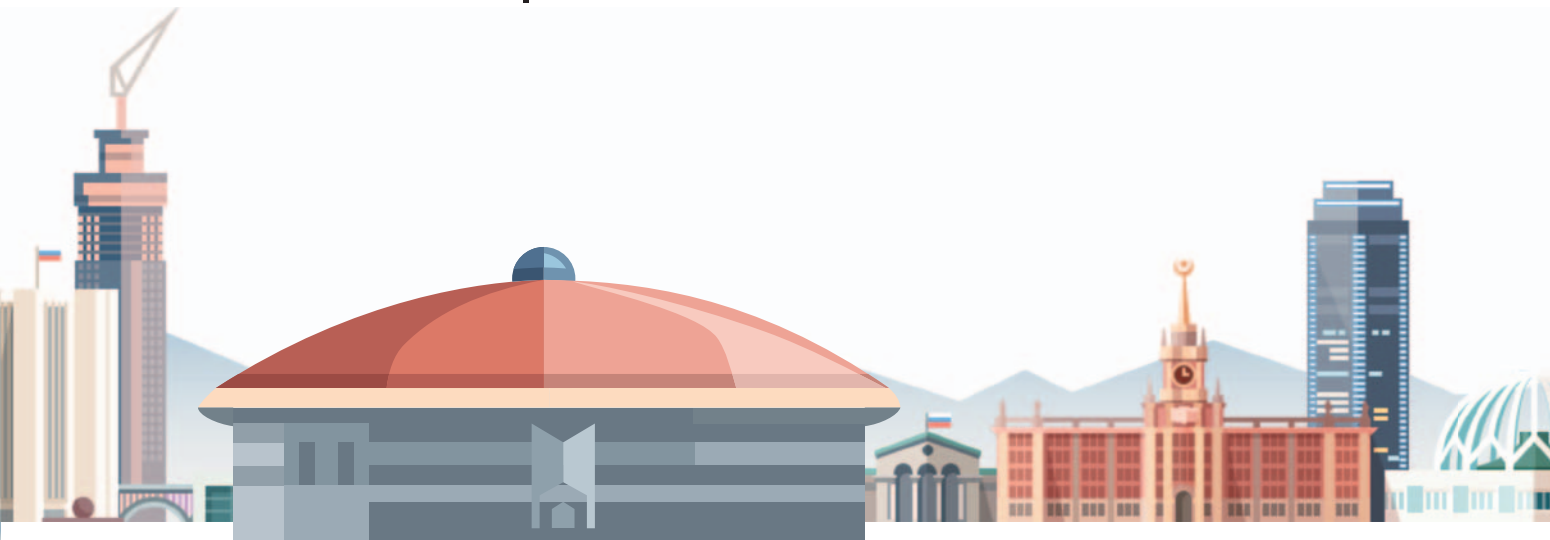
- Over 5 hours of live broadcast

- More than 30 guests in the studio

- Over 50 creative and technical specialists

- 15 cameras and a «flying» camera

- Long-focus lenses

You will not miss any single moment
of 2014 ACM ICPC World Finals

Follow the broadcast on June 25 on www.icpc2014.ru/en/competition/video

VOLUNTEERS

It's quite simple: without the efforts and labor of these people, World Finals 2014 in Ekaterinburg wouldn't have ever happened. Gratitude!

2014 World Finals ICPC Volunteers

Staff

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Assistant Director of Regional Contests

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Kochi Delegation

Prachiad Aksornthamakul,
Phuket Delegation

Pracha Asawateera,
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Osman Ay,
World Finals Judge

Babak Behsaz,
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Baylor University Vice Provost for Academic Affairs and Policy

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Mohamed Dhabi,
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ICPCNews Producer/Photo Management

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ICPC Deputy Executive Director; World Finals Executive Director; ICPC HQ Services Director; ICPCNews Executive Director

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CLI-DOMJudge

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Panorama of Ekaterinburg at night

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Prabir Kumar Biswas,
Asia Kharagpur Contest-Director

Raewyn Boersen,
South Pacific Contests–Director

Tom Capaul,
Pacific Nothewest Contest – Director

James Comer,
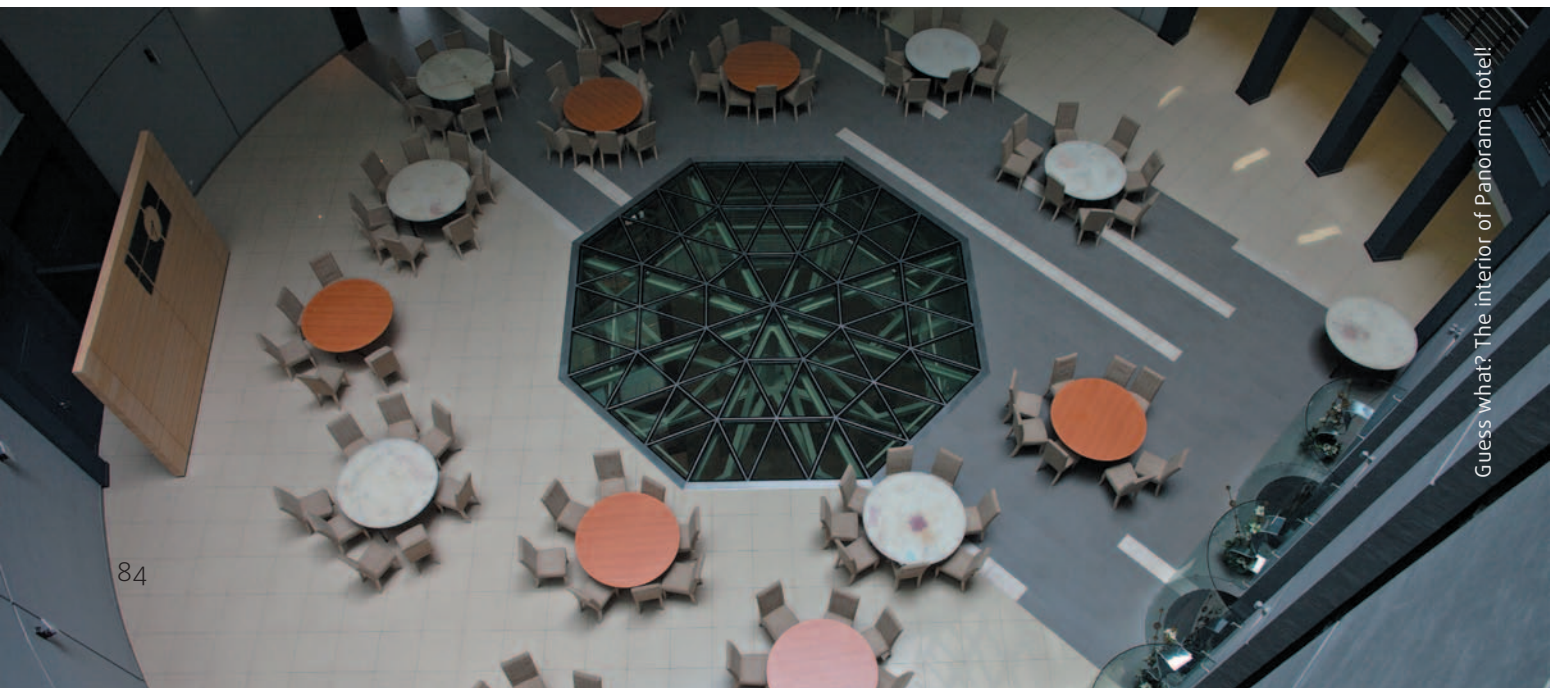Director of Regional Contests

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Ricardo Dahab,
Latin America Contests-Director

Chenglie Du,
Asia X'ian Contest-Director

Su Feng,
Asia Beijing Contest-Director

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North America South Central USA Contest-Director

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Xu Wei,
Asia Shanghai Contest-Director

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Director

Georgiy Korneev,
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Elena Kryuchkova,
NEERC Siberian and Far-Eastern Semi-
final Contest-Director

Fountain on Oktyabrskaya Square

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CTU Open-Director

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NEERC Kazakhstan Subregional Executive Director

Michael Mirzayanov,
NEERC Southern Subregional Head of Judging

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Nakornthip Prompoon,
Asia Bangkok Contest-Representative

Phil Robbins,
South Pacific Contest-Assistant Director

Elena Rogacheva,
NEERC Judging; Head of Volga Region Championship Judging

Cristina Rondon,
Venezuela Contest Sponsor

Artur Satayev,
North America Southeast USA-Judge

Fidel Ivan Schaposnik Massolo,
Latin America-Problem Committee

Anand Shenoy,
Asia Amritapuri Contest-Associate Director

Andrey Shestimerov,
NEERC Moscow Subregional Jury Vice-Chair

Nazirov Shodmankul,
NEERC Uzebekistan Subregional Director

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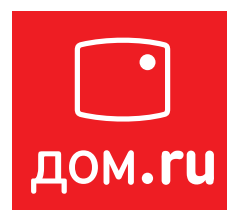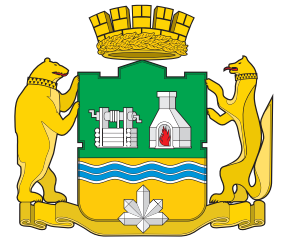that valuable help.

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23^{June} IBM Tech Trek / Opening Ceremony

24^{June} Dress Rehearsal

25^{June} The Contest / Closing Ceremony / Celebration

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