

WORLD FINALS

ICPC 2013



Saint Petersburg

hosted by **ITMO**



2013 World Finals
St. Petersburg



acm International Collegiate
Programming Contest



event
sponsor



Welcome to the 2013 ACM ICPC World Finals

sponsored by IBM
hosted by ITMO





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2013 ACM ICPC World Finals

Honorary Patronage

Dmitry Medvedev
Prime Minister of Russia



Dear guests,

I am glad to meet you in Saint Petersburg. I am really pleased that the World Finals is taking place in this city.

You have chosen the occupation that provides you with unique opportunities not only for self-realization, but also for the development of entire humanity.

Advancing to such a prestigious contest as the World Finals is already a great achievement. I'm sure that serious preparations, profound knowledge and creative approach to solving the most complex problems will help you achieve great results, justify your mentors' expectations and show that it is you who are the best programmers of the world.

I wish all the teams good luck in the upcoming competition and vivid impressions of staying in the Northern capital to our foreign guests.

A handwritten signature in black ink, appearing to read 'Dmitry Medvedev'.

Dmitry Medvedev
Prime Minister of Russian Federation

2013 ACM ICPC World Finals

Honorary Committee



Georgy Poltavchenko

Governor of Saint Petersburg



Dmitry Livanov

Minister of Education and Science



Nikolai Nikiforov

Minister of Telecom and Mass Media



Vladimir Vasilev

Rector of University ITMO



Welcome from the Governor of Saint Petersburg

Dear friends,

I'm glad to welcome organizers and participants of the 37th ACM ICPC World Finals in Saint Petersburg.

Saint Petersburg will be hosting this prestigious competition first time. 120 teams of 36 countries will take part in it. We fully deserved the honour to hold the World Finals by numerous victories of our students.

Saint Petersburg has always been the large scientific and educational centre of Russia and Europe. Over 430 000 students study at universities and institutes of our city. Nowadays special attention is paid to technical education. Saint-Petersburg training system of IT-specialists in higher education institutions is recognized worldwide.

Saint Petersburg government actively supports gifted young people. Also there are world-famous specialized high schools in area of exact sciences for talented students.

We create all conditions that the term "Petersburg's programmer" will remain the international brand name and our students will strengthen the fame of Saint Petersburg and Russia.

I wish the World Finals participants fair competition and glorious victories, bright unforgettable impressions of staying in our city in a wonderful time of white nights.

A handwritten signature in dark ink, which appears to be "Georgy Poltavchenko". The signature is fluid and stylized, with a long horizontal stroke extending to the right.

Georgy Poltavchenko
Governor of Saint Petersburg



Welcome from the Minister of Education and Science

Dear organizers and participants,

I am pleased to welcome you at the 37-th Annual International Collegiate Programming Contest World Finals!

Russian system of education in fields of Mathematics, Computer Science, and Physics has always been considered one of the best in the world. The national system of search and training of young people gifted in hard sciences has been working for more than seventy years. Olympiads

play an important role in this system.

I'd like to draw your attention to the fact that at present the majority of International Olympiads in hard sciences are held for high school students. And only in the fields of Computer Science and Information Technology, the highest level competition for university teams from all over the world was created by the efforts of international community. It succeeded in building a magnificent structure of the ACM ICPC that gathers students of over 90 countries from all the continents.

The Ministry of Education and Science of Russian Federation has supported Russian organizers of Regional Contests and participants of the World Finals for many years. Russian educational community was happy to learn that the 37th ACM ICPC World Finals 2013 would be held in our country in one of the most beautiful cities of the world Saint Petersburg.

Advancing to World Finals is already a great achievement. I am sure that your talent and hard work will be the foundation of your future professional success.

I hope that bright impressions and good memories of your stay in our city during the World Finals will remain with you forever.

A stylized, handwritten signature in black ink, consisting of several fluid, connected strokes.

Dmitry Livanov

Minister of Education and Science



Welcome from the Minister of Telecom and Mass Media

Dear Team Members, Coaches, Organizers
and Spectators,

Nowadays, software development is the fastest growing field of the high-technology industry on the Russian market. During the period of the last fifteen years, we managed to accumulate and maximize our scientific, educational and engineering potential. Many Russian software development companies are now recognized all around the world. Many large international companies have established research and development centres in our country.

Software development is the area of human activity where workforce efficiency can differ a lot. The most talented and qualified specialists are inclined to become project leaders and “idea generators”, thus increasing their value in software development industry.

The distinctive features of software developer’s job are early professional training and early employment in the industry. Programming is available to people of different age, starting from the very young ones. Current high school and university students will soon turn into software development industry employees.

The best young programmers from all over the world, who gathered in Saint Petersburg for the 37th Annual ACM ICPC World Finals, have fabulous prospects for creative self-development and building a successful and prosperous career.

A handwritten signature in black ink, consisting of a large, stylized 'N' followed by a cursive 'k' and a small dot at the end.

Nikolai Nikiforov
Minister of Telecom and Mass Media



Welcome from the Rector of University ITMO

Dear contestants, coaches and volunteers!

It has been a long time since our university first took part in a regional contest. It was almost twenty years ago, in 1994. In 1996 in Philadelphia it was the first time we had participated in the World Finals and since then our teams have always been there. Four times our university has claimed Europe and World champion titles, five times we were among the top three teams. And now for the first time ITMO has an honor to host the 37th ACM ICPC World Finals.

Our long experience of taking part in programming contests lets us claim their great significance for IT-technology development in the world. Time has proved that programming contests are effective in attracting the most brilliant high school and university students to learn computer science and programming and help them to become highly qualified experts. Team-based competitions are especially powerful in this matter and ICPC is the most significant of them in the world. These contests train student's ability to work in conditions of high competition and shortage of time, to communicate and work together, to take the initiative and hold responsibility, to navigate themselves quickly in new subject areas and solve arising problems. I believe that ICPC has helped our city software industry to evolve to its current competitive state.

I would like to pay special attention to enormous contribution to ICPC that was made by our friend and counterpart Professor Bill Poucher. It was his enthusiasm, talent and personal efforts that allowed ICPC to reach its current level of recognition in world's software development and computer science community.

I am sure that you will enjoy participating in a prestigious competition among the best young programmers. I hope you will also enjoy the beauty of our remarkable city.

I am sure that when you graduate from university and start working in IT industry, computer science or innovative business, you will return to Saint Petersburg with your ambitious projects. We are looking forward to seeing you again.

A handwritten signature in black ink, appearing to be 'V. Vasilev', written in a cursive style.

Vladimir Vasilev
Rector of University ITMO



Welcome from the Director of ACM ICPC 2013 World Finals

Welcome to St. Petersburg! The whole team of St. Petersburg ITMO volunteers is honored to host the 2013 World Finals of the most prestigious international collegiate programming contest in the world.

Dear team members and coaches, you've already made the great achievement of qualifying to compete in the World Finals. You've proven that you are the best of the best programmers in the world. This whole event is produced for you. You are the reason why it happens. We are here to ensure that you will bring home one of the best memories of your lifetime.

Dear RCDs, ICPC staff, and volunteers, your dedication to ICPC community, your hard work and support constitute the spirit of ICPC. You stay with ICPC year after year and carry this spirit to the next generation of volunteers to come. You deserve the best treatment that we've provided for you.

You are coming to St. Petersburg, to one of the most beautiful cities of the world, at the height of its most beautiful season — the White Nights. St. Petersburg was founded more than 300 years ago. It was designed and built from scratch by the best architects of the world to be the capital of Russia. Your stay during the competition is hosted at the heart of St. Petersburg historic city centre that is designated as UNESCO World Heritage site. You'll see the finest examples of baroque and neoclassical architecture all around you. While no longer serving as a capital of Russia, St. Petersburg is indeed the cultural capital of Russia, with multitude of its museums and theaters, and with its highly educated, cultural and hospitable population.

Enjoy your stay in St. Petersburg!

A handwritten signature in black ink that reads "R. Elizarov" with a checkmark at the end.

Roman Elizarov
Director of ACM ICPC 2013 World Finals



Добро пожаловать в Санкт-Петербург!

Welcome to the 37th Annual ACM International Collegiate Programming Contest World Finals sponsored by IBM and hosted by the St. Petersburg National Research University of Information Technologies, Mechanics, and Optics. We have partnered with the UPE Honor Society and ACM to provide you with the finest possible setting here in St. Petersburg, Russia.

The ACM-ICPC World Finals culminates the efforts of faculty and students from 2,322 universities in 91 countries that placed 29,479 students in teams of three at over 300 regional sites worldwide. The top 120 teams have advanced to the World Finals. Congratulations to the 2013 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 29,119 of your peers 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 “2013 World Champions” prove their worth beyond measure.

There are so many stars visible in the ICPC Community. UPE has served for 43 years, ACM has served for 36 years, and Baylor University has served for 25 years. In 16 years of IBM sponsorship, the ICPC has expanded participation by more than 1100%!

Consider the 2013 DeBlasi Award recipients, the Northeastern European Regional Contest volunteers and the NEERC headquarters team from ITMO. With leadership from Vladimir Vasilev, Vladimir Parfenov, Roman Elizarov, Matvey Kazakov and Andrey Stankevich, their accomplishments, dedication and volunteer spirit has extended the ICPC Community throughout northeastern Europe and northern Asia. Consider the 2013 Measures Award recipient, Dr. Vladimir Parfenov of ITMO. Vladimir has spent a lifetime opening doors of opportunity and encouraging gifted problem solvers. Combined, their efforts have transformed and enriched many communities for decades — at home and across the globe.

Here we are in St. Petersburg, in July, in the midst of White Nights, where Enlightenment first bloomed under Peter the Great. Here we are in the land of great poets, enchanting composers, and magnificent ballet. Let us draw from these strengths and their purpose as we celebrate the opportunities before us.

How might Pushkin have greeted you to St. Petersburg? *“Душе настало пробужденье: И вот опять явилась ты, как мимолетное виденье, Как гений чистой красоты.”* “But time has come, my soul awaked, and you once more appear to me — a ghost, an apparition fleet — as genius of the purest grace.” I join World Finals Director, Roman Elizarov, in welcoming all to the 2013 ACM ICPC World Finals in St. Petersburg!

Best Wishes!

A handwritten signature in black ink that reads "William B. Poucher". The signature is fluid and cursive, with a large, stylized 'W' and 'P'.

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



Welcome from IBM

It is my great pleasure to welcome you to the 37th Annual ACM International Collegiate Programming Contest World Finals! The ICPC is the world's largest and most prestigious programming competition. This year marks IBM's sixteenth year as sponsor of the World Finals and we are thrilled to be here with you in beautiful St. Petersburg, 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 young programmers from the world's best universities and colleges and are to be heartily congratulated for qualifying for this year's finals. 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 and dedication to the ICPC.

I also want to recognize the ICPC leadership and their staff of volunteers, our hosts from St. Petersburg National Research University of Information Technologies, Mechanics and Optics, 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.

I hope that you will make the most of your attendance at this event and take full advantage of meeting and networking with the other participants here from all over the world as well as the many academic, business, and technical professionals attending the finals. Many long-lasting friendships began at an ICPC World Finals and we hope you will continue this tradition and become full and active members of our extended family.

We look forward to spending time with you throughout the week. During TechTrek on Monday, you will have the opportunity to see some of IBM's newest technologies and learn more about Big Data and its impact on the world. We hope you will be able to join us on an excursion to the amazing Hermitage Museum, a fascinating collection of art and sculpture housed in the former Winter Palace of the Russian Emperors. We hope you will also be able to join us on Monday and Tuesday night for our Chill Zone which will be a fun place to gather for games and relaxation with the other attendees. Of course the highlight of the week for me, and for all of my IBM colleagues, will be the main event and watching you compete on the international stage on Wednesday. On behalf of the IBM team, best of luck to all of you.

After months of preparation, the 2013 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!

A handwritten signature in dark ink, reading "Doug Heintzman". The signature is stylized and fluid, with a long horizontal line extending from the end.

Doug Heintzman
ACM-ICPC Sponsoring Executive
Director of Strategy, IBM Collaboration Solutions
IBM Software Group



Welcome from ACM

Welcome to the 37th annual ACM International Collegiate Programming Contest (ICPC) World Finals. ACM is extremely proud to participate in the life of the ICPC community. The ACM International Collegiate Programming Contest (ICPC) traces its roots to a competition held at Texas A&M in 1970 hosted by the Alpha Chapter of the UPE Computer Science Honor Society. The vigor and excitement of this contest has not diminished over its 43-year history and, if anything, has become more meaningful as the information age has evolved. This year, the event will be held at the National Research University ITMO at St. Petersburg in the Russian Federation.

ACM is deeply grateful to the University team and to IBM for their commitment since 1997 to the ICPC. We 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 2013 World Finalists.

May fortune smile upon you, both here at the World Finals and in the course of your chosen careers. Practitioners in our discipline demonstrate their professionalism and commitment by becoming members of ACM. I welcome each of you, personally, to join your many colleagues and mentors who already make the ACM the most important international professional society in computer science.

A handwritten signature in black ink, appearing to read 'Vint Cerf', with a long, sweeping horizontal line extending to the right.

Vint Cerf
ACM President



Welcome from UPE

On behalf of UPSILON PI EPSILON, I would like to welcome each one of you to St. Petersburg and the 2013 ICPC. This event is always an exciting time for all of us in UPE. Each year we have the opportunity to interact with the best students in the computing and information disciplines and renew friendships and meet new academic colleagues from around the world who serve as ICPC volunteers. These individuals help insure the success of the World Finals and most have been involved in the various segments of the ICPC — local, regional, and the world finals — for several years.

Since the first contest finals in 1977, there have literally been thousands of people who have served as programming contest volunteers, and UPE wishes to salute these individuals, past and present, for they are truly the backbone of the ICPC. We are also fortunate to have great coordination from the ICPC staff at Baylor University and corresponding support from the IBM Corporation. We salute the Baylor and IBM teams for running a great contest each year.

Indeed, it is a pleasure to have St. Petersburg as our host city, given the many historical venues in this city. In addition, this is home to St. Petersburg University of IT, Mechanics and Optics, an institution that has won several ICPC world championship trophies.

Again, welcome to the 2013 ICPC. Have a great time in St. Petersburg.

A handwritten signature in black ink, which appears to read "Orlando".

Orlando Madrigal, Ph.D.
Executive Director of UPE



Welcome from Yandex

Dear Friends,

Welcome to one of the world's most important events in computer programming celebrating the power of thought and ingenuity. This is the 37th time when hundreds of talented and committed young computer engineers and mathematicians will meet at the World Finals of the Annual International Collegiate Programming Contest running under the auspices of the Association for Computing Machinery.

With internet technology, computer engineering, mathematics and data analysis at the core of Yandex, we have always underscored how much Russia's long-standing tradition in these disciplines

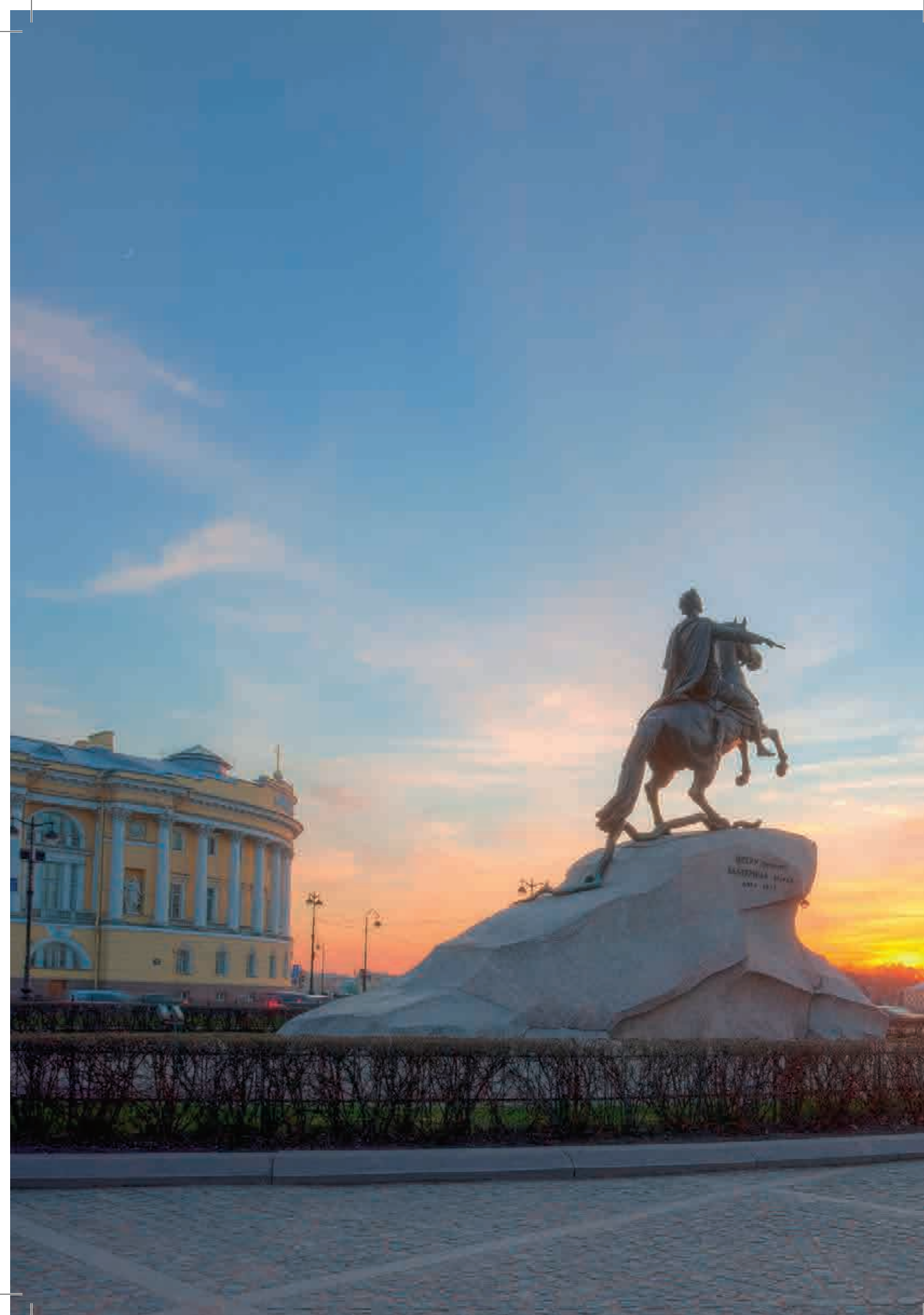
meant for us. We have always felt honored to have the privilege to support the ICPC events for many years regardless of where in the world they take place. This year, Yandex is especially happy to welcome all participants, mentors and partners to Saint Petersburg, home not only to some of the world's greatest mathematicians, but also to the current host and our long-time partner, the Saint Petersburg National Research University of Information Technologies, Mechanics, and Optics.

We are happy to see participants from Russia at the ICPC World Finals each year, especially when they win and come to work at Yandex. To support and nurture young talent is as important to us as to make contributions to computer research and engineering. Yandex mentors have been running workshops, master classes and lectures in applied mathematics and programming on a regular basis, including a series that have been designed specifically to help students prepare for the ACM contests. We also run our own multi-tiered system of competitions, educational programs and events for young computer engineers and coders. Through our School of Data Analysis, we offer a free master's-level course in computer science, machine learning, image and text processing and more, taught by some of the world's most brilliant researchers and practitioners in these fields.

Yandex will keep contributing to the ICPC community with any kind of support. We are wishing all contestants the best of luck. Enjoy your time at the contest, enjoy Saint Petersburg and have fun!

A handwritten signature in black ink, which appears to read "Arkady Volozh". The signature is stylized and fluid.

Arkady Volozh
CEO of Yandex



Welcome to Saint Petersburg



St. Petersburg was conceived and built at the behest of Peter the Great, who dreamt of a new capital, which would yield nothing to any other European capitals. The City on the Neva was created by skills and talent of not only Russians, but also numerous foreigners invited by the Russian emperors. The architects, sculptors, artists and craftsmen who came here introduced and carefully nurtured on the banks of the Neva, European art, crafts, technologies, and traditions, whereby Russian people found themselves completely involved in the world's civilization, retaining at the same time their own peculiarity and integrity, and creating a special St. Petersburg style.

Domenico Trezzini, Bartolomeo Rastrelli, Giacomo Quarenghi, Andrey Stakenschneider, Karl Rossi, Auguste Montferrand and many other prominent architects worked in the city. St. Petersburg is famous for its architectural ensembles, which amaze everybody coming to the banks of the Neva. As a result, the museum-city was born, with its inimitable palace interiors, park ensembles, fountains, and striking views of the suburbs: Peterhof, Tsarskoye Selo, Pavlovsk, Strelna, Oranienbaum, Gatchina.

St. Petersburg is inscribed on the UNESCO World Heritage list as an area with 36 historical architectural complexes and around 4000 outstanding individual monuments of architecture, history and culture.

St. Petersburg is dubbed the cultural capital. The “soul of the city,” its aura, cherishes the memory of poets and writers. Streets and squares, bridges and embankments, rivers and channels, and the Neva itself were reflected in great Russian literature — quotations from the works of Fyodor Dostoevsky, Vladimir Nabokov, Joseph Brodsky, Alexander Pushkin, Nikolay Gogol, Alexander Blok and Anna Akhmatova. The greatest artists of the 20th century — Malevich and Filonov, Serov and Vrubel worked here.

The musical life in the city began developing from the moment of its foundation. Already from the second half of the 18th century, St. Petersburg was the centre of European musical culture. Operas of foreign and Russian composers were staged in the theaters, which appeared at that time. Since the 19th century the city has been inseparably linked to the great names — Mikhail Glinka, Alexander Borodin, Modest Mussorgsky, Nikolay Rimsky-Korsakov, Pyotr Tchaikovsky, Alexander Glazunov, Igor Stravinsky, Sergey Prokofiev, Fyodor Shalyapin and Dmitry Shostakovich. St. Petersburg is saturated with music.

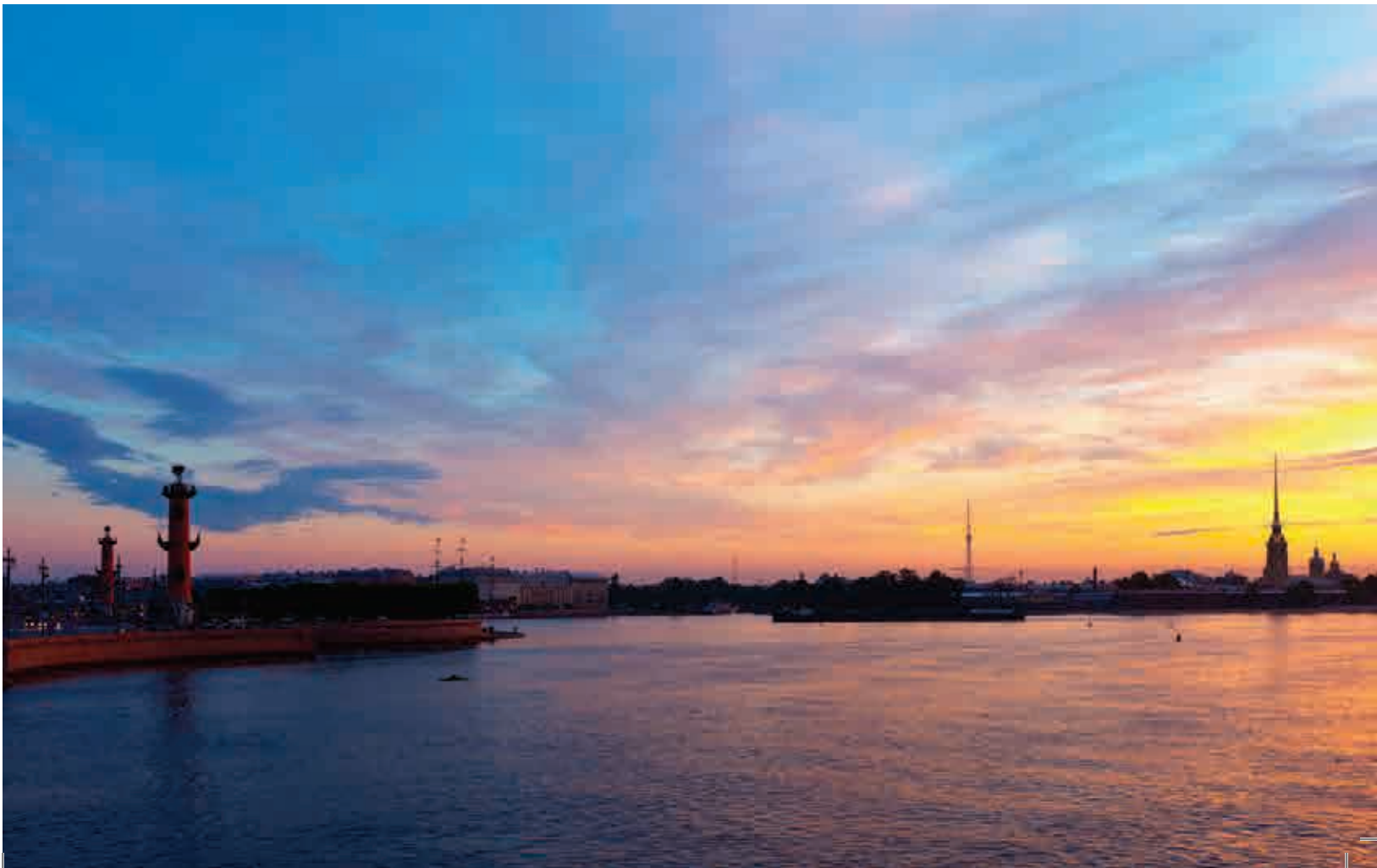
The great dance culture of St. Petersburg is known all over the world. Some thirty years after the foundation of the city, the court ballet performances became a regular occurrence there. At that time the first Russian ballet school was opened in St. Petersburg. In the late 18th century the art of ballet was established and became a bright event in Russian culture. St. Petersburg ballet art has been world-renowned since the beginning

of the 20th century to the present day. Neginsky, Pavlova, Nureev, Baryshnikov and Makarova danced here.

The world's renowned Mariinsky Opera and Ballet Theater is an outstanding phenomenon of Russian musical culture, its opera and ballet art. The brilliant masters of the musical stage worked and still work here. Many ingenious works of Russian composers were premiered in the grand auditorium of Mariinka. And nowadays, new performances are still born here. The city is particularly beautiful during the period of White Nights. Annually, the Mariinsky Theater holds the festival "Stars of the White Nights," during which leaders of the world's stage take part. Its artistic director Valeriy Gergiev has started implementing a large-scale project of the theater's enlargement; he plans to cooperate with the world's best theaters.

At the beginning of May 2013 the new stage of the Mariinsky theater was opened. The opening of the Mariinsky II will confirm and strengthen the great traditions of the theater, opening the path to a future where it will be possible to stage the most contemporary works and innovative productions, of which nobody could even have dreamt before.

The first Russian state public theater was established in St. Petersburg in the mid-18th century. Since that time, theater has been inseparable from the city. Now, there are more than 30 drama and 7 musical theaters in St. Petersburg.





The city is a home to a multitude of museums with tremendous collections of paintings, sculpture, armor and applied art. There are world's renowned the Hermitage, the Russian Museum, and the Peter and Paul Fortress. Their collections can satisfy the most sophisticated taste and imagination. St. Petersburg itself is an open-air museum.

St. Petersburg is the city of great science. It was here that in 1724 the Russian Academy of Sciences was founded, and the scientists, invited by Peter, from Europe, were working. Mikhail Lomonosov, the first Russian academician and encyclopedist, worked here. In the 19th to 20th centuries the scientists of the city redounded to the fame of Russian science. The first Russian museum, the first University and the first Academy of Fine Arts were founded here. St. Petersburg boasts a great number of scientific institutes, where not only fundamental science, but also applied science is being developed — mathematics (now world-famous Grigory Perelman works in St. Petersburg), physics, computer science, mining, optics, mechanics, chemistry, energy, etc. And today, St. Petersburg's science remains a source of Russian pride.

St. Petersburg is the largest centre of education. There are 49 state and 70 non-state higher education establishments in the city now, enrolling 430 thousand students from Russia and other countries. St. Petersburg State University has recently celebrated its 275th anniversary.

St. Petersburg is an IT-industrial centre. The city, in addition to its world famous architectural and cultural heritage, has become a recognized centre for information technologies.

St. Petersburg's leading software development companies, including JetBrains, PROMT, Speech Technologies Centre, and Transas Technologies, occupy high positions in the world IT market. Such service companies as Reksoft, DataArt, Lanit-Terkom, and First Line Software are constantly rated among the World Top 100.

St. Petersburg's engineers make a significant contribution to research and development of new solutions for the world's leading software, computer and telecom equipment vendors located in the city, including Google, Oracle, EMC, Intel, Siemens, T-Systems, HP, Motorola, Yandex, Epam Systems, Luxoft, Kaspersky Labs, Alcatel-Lucent, Nokia and Huawei.

St. Petersburg historically accommodates a number of leading technical universities. Since 2000 teams from St. Petersburg universities have won the ACM ICPC World Finals six times (twice — St. Petersburg State University: 2000 and 2001, four times — University ITMO: 2004, 2008, 2009 and 2012). The city has strong R&D traditions as well as a developed community of commercial software development companies. The headquarters of the National Association of Software Developers RUSSOFT, which unites more than 70 companies from different regions of Russia, is located in St. Petersburg.

The city's contribution to the development of a new wave of hi-tech businesses is probably the most significant in Russia. This fact is revealed in the organization of Internet Projects Contest "Web Ready," which is supported by the City Government as well as a number of Russian and foreign companies. Today, this event is the largest contest of internet projects in Russia.

St. Petersburg is recognized as one of the world's leading software development centres. Thus, St. Petersburg is ranked 31st in the Top 100 Outsourcing Cities rating published by Global Services in 2010. According to the Top-50 Emerging Global Outsourcing Cities rating identified by Global Services and Tholons in 2009, St. Petersburg has the highest ranking. The city tops the list of the world's fastest growing cities suitable for location of R&D centres and is ranked among the top five leading cities suitable for development of solutions for Healthcare Services and Engineering Services. Moreover, St. Petersburg is also ranked among the three world cities, which will become the best Product Development centres in the near future. Today, 4 out of 6–8 Russian IT-outsourcing companies, which are constantly listed in the Global Services 100 rating, are located in St. Petersburg.

A photograph of the University ITMO building, featuring a prominent clock tower with a dome. The building is surrounded by trees with autumn foliage. The text "University ITMO" is overlaid in white serif font.

University ITMO

ИТМО



Saint Petersburg National Research University of Information Technologies, Mechanics and Optics (University ITMO) is one of the oldest educational institutions in Russia.

Having been established in 1900 as the Mechanics-Optics and Watch (Clock) Department of the Vocational School named after Crown Prince Nicolas, this educational institution started training technical specialists in the field of Optics, Mechanics and Technology. Later the Vocational School was transformed first into Leningrad Technical College of Fine Mechanics and Optics (1920) and then in 1930 into Leningrad Institute of Fine Mechanics and Optics (LITMO).

In the course of its manifold activity the Institute ITMO was developed as an institute of higher technical education that provided preparation of engineers in various specialties. In 1994 the Institute was awarded the status “Technical University” and since 1998 its title has been “The Saint Petersburg State University of Information Technologies, Mechanics and Optics”. Nowadays the University ITMO is a leading university in Russia in the field of information technologies and photonics.

The university Rector, Professor Vladimir Vasilev, is an Honored Worker of Science in Russian Federation, the laureate of the President of Russian Federation Prize (twice) and the Russian Government Prize (twice), Vice-President of the Russian University Rectors Union, Chairman of St. Petersburg University Rectors Council, a Corre-



sponding Member of the Russian Academy of Sciences, and a Corresponding Member of the Russian Academy of Education.

A multilevel system of education is now realized at the University: Bachelor of Science and Technology (four academic years), Certificated Specialist (six years) and Master of Science and Technology (six years). More than 10000 full-time students are trained at the University. The University includes 15 Faculties, 3 institutes, 7 research institutes and one Academy. They occupy 15 buildings located in the historical centre of St. Petersburg. About 980 teachers are on the staff of the University and more than 680 of them have doctorate degrees. The University provides higher education in about 100 programs.

Among the students there are those who have been awarded the most prestigious grants and scholarships of the President of Russian Federation, the Government of the Russian Federation, the City of St. Petersburg, and other bodies.

The University ITMO cooperates effectively with many universities abroad and participates in the Bologna process, and, therefore, in the formation of the United European Education Area. The University ITMO is a full member of the European University Association. Within the framework of different exchange programs a number of our students participate in M.D. and Ph.D. training at foreign universities. A number of foreign students from European, Asian and

African countries study annually at the University ITMO. The engineers and scientists who have got degrees at ITMO work all over the world including the USA, UK, China, Germany, France, Switzerland, Netherlands, Ireland, Italy, Poland, Hungary, Bulgaria, In-



dia, South Korea, Turkey, Vietnam, Cuba and many other countries.

The University ITMO was an initiator and principal developer of the United Federal University Computing Network RUNNet (the largest academic network in Russia). It provides direct access to the Internet. In 2000 the University team headed by the Rector, Professor Vladimir Vasilev, was awarded the Prize of the Russian Government in the area of education.

In 2007 the University ITMO won the All-Russia Contest for the best innovative Educational Programs. Realization of this program made it possible to achieve a qualitatively enhanced level of specialists' preparation. Since September 2009 the University ITMO has participated in a process of establishing a new University of the Shanghai Organization of Cooperation. The University ITMO essentially contributes to creation and technical support of the information and communication platform and portal of this Organization.

In 2009 the University ITMO won a strong contest among leading Russian Universities for the honorary title "National Research University." A development program of the University ITMO is principally aimed at gaining the competitive advantages of Russia in areas, of information and communication technologies taking into account the accelerating technological progress and globalization processes. The further progress of



the above-mentioned fundamental and applied researches is provided by enhancement and modernization of research centres, departments, laboratories and networks access. A material basis of the University gets even stronger with this purpose.

The leading scholars of the University ITMO as well as students and postgraduates take part in all the scientific researches. The basic scientific directions of the University ITMO are computer and information technologies, optical technologies, controlling systems, fine techniques and technologies, electrical technology and electronics, fundamental and applied researches in mathematics and physics. Basic research is conducted in the fields of computer technologies, guidance of robots, non-linear systems theory, computer networks, supercomputing, quantum electronics and non-linear optics, optics of biological tissues, physical optics and spectroscopy, laser and optical technologies, energy monitoring, non-centred optics, and biotechnology. On the basis of these investigations and developments, the scientists and specialists of the University ITMO create principally new devices, information systems, programming technologies, technologies and materials such as laser airborne and space systems, picoseconds lasers, laser and optical technologies, composition materials, optoelectronic measuring systems, medical laser systems, optical sensors for industrial and ecological applications, corporate networks, etc.



The University ITMO provides all the students and postgraduates with comfortable conditions for studying, living and relaxing. The nonresident students are provided with accommodation in the University's dormitory.

Computer Technology Department

In 1990 a special project aimed at the creation of a multilevel educational system started in the University ITMO. This system includes selection, training, and employment of young people talented in the field of exact sciences. The main intention of the project was to bring up the high level specialists in the sphere of the computer science, applied mathematics, computational physics and software engineering who would be able to apply the latest achievements of sciences to the concrete problems of the software industry. In order to achieve this goal for a small group of specially selected schoolchildren, the Computer Technology Department was established by two professors Vladimir Vasilev (rector of University ITMO) and Vladimir Parfenov (dean of the Faculty of Computer Science and Software Engineering).

The Computer Technology Department staff consists of the experienced professors from University ITMO and the other leading St. Petersburg universities as well as the top St. Petersburg experts in software R&D from both academia and industry.

Started by admitting annually only a small group of twenty students, the annual number of graduates has grown to about fifty-sixty young people. The system of student selection is based primarily on the unique St. Petersburg network of high schools specializing in mathematics and physics. This network has been fruitfully working for more than fifty years. The other source for student selection is the winners of International and Russian National School Olympiads in mathematics, physics and informatics.

The faculty project-based approach is widely used in the learning process and is still being developed. The essence of this approach is that students are immediately involved in real projects. Expediency and effectiveness of using such approach for training experts in software development are connected with the technological nature of a programmer's profession and studied subjects. Expertise in the sphere of programming is gained only in the course of solving problems which arise from implementing and bringing a program to an operating state.

In 2008 for the creation of an innovative system of training highly qualified programmers which is based on the usage of project-based approaches, Vladimir Vasilev, Vladimir Parfenov, the head of the Programming Technologies Department Anatoly Sha-



lyto, the associate professors of the Computer Technology Department Matvey Kazakov (Computer Technology Department graduate, Gold Medal in the ACM ICPC World Finals 1999) and Georgiy Korneev (Computer Technology Department graduate, Silver and Gold Medals in the World Finals 2000 and 2001) were awarded the Prize of Russian Government in the sphere of education.

Particularly outstanding results have been achieved in computer science; one can readily see the results of the Computer Technology Department student teams in the ACM International Collegiate Programming Contest.

In 1994 the student team of the Computer Technology Department initially participated in the 1994-95 ACM ICPC taking the third place at the Eastern European Regional Programming Contest in Bucharest. This team exhibited the best performance among all Russian universities. In 1995 the student team took the first place at the Northwestern European Regional Programming Contest in Amsterdam. Therefore, just due to the students of the Computer Technology Department for the first time in the history of ACM ICPC the Russian team was included in the World Finals in 1996. In 1996 the Computer Technology Department team took the first place in the Northeast European Regional





Programming Contest in St. Petersburg and became the first Russia Champion.

Thanks to the victories of students trained in Computer Technology Department, University ITMO achieved the top International and Russian universities ranking based on the World Finals ACM ICPC performance. Beginning with 1995 students of the Computer Technology Department won regional contests nine times. Eight times they became the Russia Champions — in 1996, 2001, 2003, 2004, 2007, 2010, 2011 and 2012, and three times — vice-champions in 2000, 2005 and 2006. Since 1995 students of the Computer Technology Department have constantly reached the World Finals and in 2000 they got silver medals, in 1999, 2001, 2003, 2005 and 2007 they won gold medals and in 2004, 2008, 2009 and 2012 they became the World and Europe Champions. Due to these achievements University ITMO ranks among the top universities according to the World Finals performance and the coach of University ITMO teams Andrew Stankevich (Computer Technology Department graduate, Silver and Gold Medals in World Finals 2000 and 2001) has become the most successful coach in the world for the last decade. The President of Russian Federation, Vladimir Putin held the first meeting with the team of the University ITMO, the World Champion, in May 2004. Then a meeting was held by Dmitry Medvedev, the first Vice-Premier of Russian Government, in June 2007 and in May 2009 when he was the President of Russian Federation. In May 2012 the ceremonial celebration of the team took place at the General Meeting of Rus-





sian Academy of Sciences where the President of Russian Federation Vladimir Putin made a speech. In his speech he congratulated the members of the team on the victory:

“...today at our event there are members of the University ITMO team who won the World Finals. So we win not only in hockey, but even in such spheres as Computer Science. I congratulate them heartily on this achievement.”

Besides the Northeast European Regional ACM Programming Contest, professors, undergraduate and post-graduate students organize and carry out Russian Olympiads in Informatics and Programming for high school and university students, Russian Internet-Olympiads in Informatics for high school students and many other creative contests and olympiads in the above-mentioned spheres. Professors Vladimir Vasilev and Vladimir Parfenov, the associate professors of the Computer Technology Department Roman Elizarov (Computer Technology Department graduate, Russia Champion 1996) and Andrew Stankevich were awarded the Prize of Russian President in the sphere of education in 2003 for foundation and development of system of Russian and International Olympiads in Computer Science and outstanding achievements in these Olympiads. In 2010 Georgiy Korneev and Matvey Kazakov were awarded the Prize of Saint Petersburg Government for development of educational-methodical courses of training highly-qualified programmers. In 2004 Roman Elizarov, Vladimir Parfenov and Andrew



Stankevich were given the ACM ICPC Founder's Award for organization of Olympiads for programmers in Europe. In 2009 for successful work in organizing the world's contests for young programmers, Vladimir Vasilev, Roman Elizarov and Vladimir Parfenov were awarded the ACM ICPC DeBlasi Outstanding Contribution Award.

Other achievements of students and graduates are also well known. In 2008 the team of Saint Petersburg students headed by the student of the Computer Technology Department Anatoliy Nikitin won the prize for the best engineering in the world's most prestigious student technology competition "Imagine Cup," which was held in Paris.

In November 2008 there was a presentation of the first in the world WiMax-smartphone — brand name "Yota." Yota's software was developed by Computer Technology Department graduates, the Russia Champions 2001 and the Gold Medal Winners of the World Finals 2003, Alexandr Shtuchkin and Evgeniy Yuzhakov. In December 2009 in Moscow at the Forum of Winners the President of Russian Federation Dmitry Medvedev presented Grand Prix of the First National Youth Award "Breakthrough" to the developers of WiMax-smartphone Fedor Tsarev (Computer Technology Department graduate,

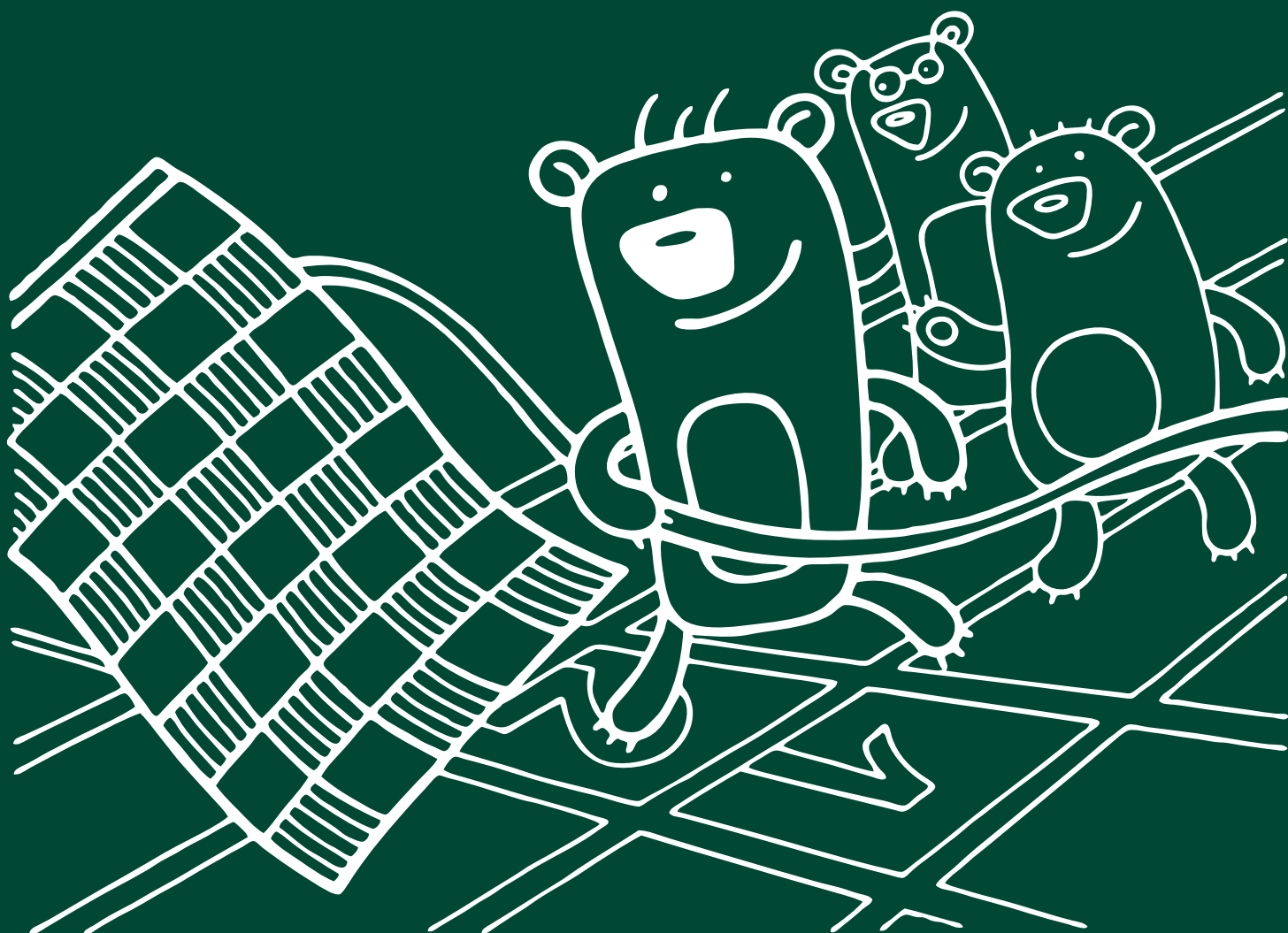


Russia Champion 2007, World and Europe Champion 2008), Alexandr Shtuchkin and Evgeniy Yuzhakov. In February 2010 the President of Russian Federation awarded the Russian President Science and Innovation Prize for young scientists to Pavel Belov, the graduate of Computer Technology Department.

Many young gifted graduates took up the executive positions in software development companies and have founded more than 30 their own successful IT-companies in Saint Petersburg, where more than a thousand employees work at present.

2013 ACM ICPC World Finals

About the Contest



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

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

Since IBM became sponsor in 1997, ICPC participation has increased by more than 1100%. This year, ICPC participation included 29,479 of the finest students and faculty in computing disciplines from 2,322 universities from 91 countries on six continents.

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

The annual event is comprised of several levels of competition:

- Local Contests — Universities choose teams or hold local contests to select one or more teams to represent them at the next level of competition. Selection takes place from a field of over 300,000 students in computing disciplines worldwide.
- Regional Contests (September to December 2012) — 29,479 contestants from 2,322 universities in 91 countries on 6 continents competing at over 300 sites have been certified as of December 27, 2012. A total of 35,383 students competed in the ICPC and ICPC assisted contests combined. This is the record participation.
- World Finals (June 30 — July 4, 2013, St. Petersburg, Russia) — Hosted by St. Petersburg National Research University ITMO, one hundred and twenty (120) 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.

Battle of the Brains

The contest pits teams of three university students against eight or more complex, real-world problems, with a grueling five-hour deadline. Huddled around a single computer, competitors race against the clock in a battle of logic, strategy and mental endurance.

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

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

To learn more about the ICPC, please visit <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.

World Finals 2013 hosted by the Saint Petersburg National Research University of Information Technologies, Mechanics and Optics — the final round for the 2012 Regionals

One hundred and twenty teams from regional contests servicing universities worldwide have advanced to the World Finals to be held in St. Petersburg, Russia, June 30 to July 4, 2013. The World Finals is hosted by the St. Petersburg National Research University of Information Technologies, Mechanics and Optics. ITMO has four World Championships, the most by any university in ICPC history, and regularly advances teams to the World Finals. The Prime Minister of the Russian Federation, Dmitry Medvedev, is Honorary Chair of the 2013 ACM ICPC World Finals Patrons. Vladimir Parfenov and Roman Elizarov, founders of the ICPC in the Russian Federation, serve as World Finals Vice-Director and World Finals Director respectively.

Recent medal winners in order of finish are:

- 2012**
1. St. Petersburg National Research University ITMO (Russia)
 2. University of Warsaw (Poland)
 3. Moscow Institute of Physics & Technology (Russia)
 4. Shanghai Jiao Tong University (China)
-

- 2011**
1. Zhejiang University (China)
 2. University of Michigan at Ann Arbor (USA)
 3. Tsinghua University (China)
 4. St. Petersburg State University (Russia)
-

- 2010**
1. Shanghai Jiao Tong University (China)
 2. Moscow State University (Russia)
 3. National Taiwan University (Taiwan)
 4. Taras Shevchenko Kiev National University (Ukraine)
-

- 2009**
1. St. Petersburg National Research University ITMO (Russia)
 2. Tsinghua University (China)
 3. St. Petersburg State University (Russia)
 4. Saratov State University (Russia)
-

- 2008**
1. St. Petersburg National Research University ITMO (Russia)
 2. Massachusetts Institute of Technology (USA)
 3. Izhevsk State Technical University (Russia)
 4. Lviv National University (Ukraine)
-

- 2007**
1. University of Warsaw (Poland)
 2. Tsinghua University (China)
 3. St. Petersburg National Research University ITMO (Russia)
 4. Massachusetts Institute of Technology (USA)
-

- 2006**
1. Saratov State University (Russia)
 2. Jagiellonian University (Poland)
 3. Altai State Technical University (Russia)
 4. University of Twente (The Netherlands)
-

- 2005**
1. Shanghai Jiao Tong University (China)
 2. Moscow State University (Russia)
 3. St. Petersburg National Research University ITMO (Russia)
 4. University of Waterloo (Canada)
-

- 2004**
1. St. Petersburg National Research University ITMO (Russia)
 2. KTH — Royal Institute of Technology (Sweden)
 3. Belarusian State University (Belarus)
 4. Perm State University (Russia)

About ACM

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

About IBM

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 improve 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 Business Analytics and Optimization; Cloud Computing; Smarter Commerce; Business Services; Enterprise Operations; Risk Management; Mobile Computing; and Collaboration. IBM's Watson computer is an example of data analytics. IBM provides industry solutions in areas such as smarter cities, energy, utility, financial markets, chemicals, petroleum, electronics, public service, health care, retail, telecommunications, transportation, manufacturing, media and entertainment. 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/acmcontest/>

The University ITMO Commitment

St. Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO) has a historical commitment to excellence in problem solving. Having championed the ICPC throughout the Russian Federation and surrounding countries, ITMO is among the most be-medaled university in the world with the most World Championships of any university in the world, four. As one of only a handful of National Research Universities, ITMO empowers the next generation of innovators. For more information, visit <http://en.ifmo.ru>.

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/>.

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>.



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2013 ACM ICPC World Finals

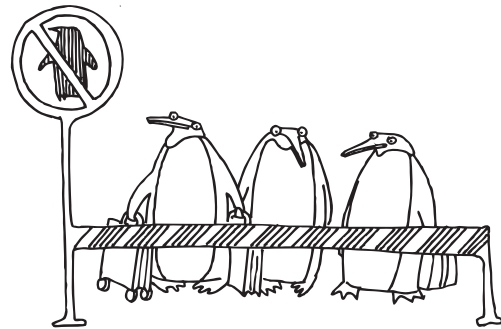
World Finals Rules

Mission

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

Introduction

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



*...around the world
(except Antarctic Continent)*

Organization

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

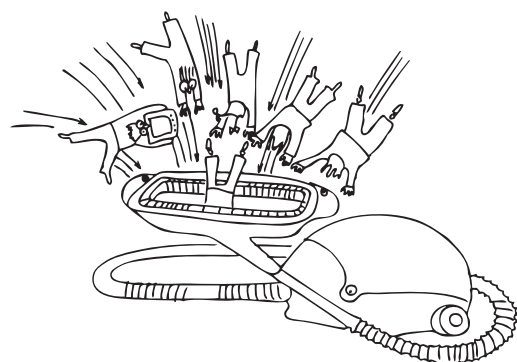
World Finals Site and Dates

The 2013 World Finals will be held in St. Petersburg, Russia. A tentative schedule of events will be posted with updates as necessary.

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

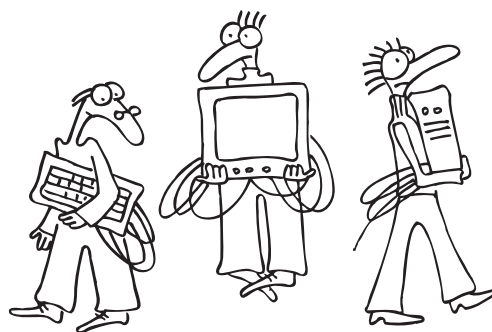


*...contest for vacuuming
top talent of the world...*

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.



...three members...

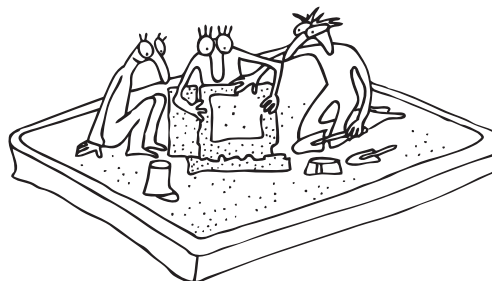
At on-site registration, participants must provide picture ID (passport, driver's license, etc.) Contestants must show proof of enrollment at the university during the term of the regional contest at which they qualified. A letter on university letterhead with the signature of a university official accompanied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

Attendance

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

Support and Prizes

Each finalist team will be provided with hotel accommodations for the coach and three contestants 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.



...accomodation and fun...

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).



...will be awarded...

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 permit-

ted three copies of the Team Reference Document described in the On-Site Registration Instructions.

Contestant Conduct

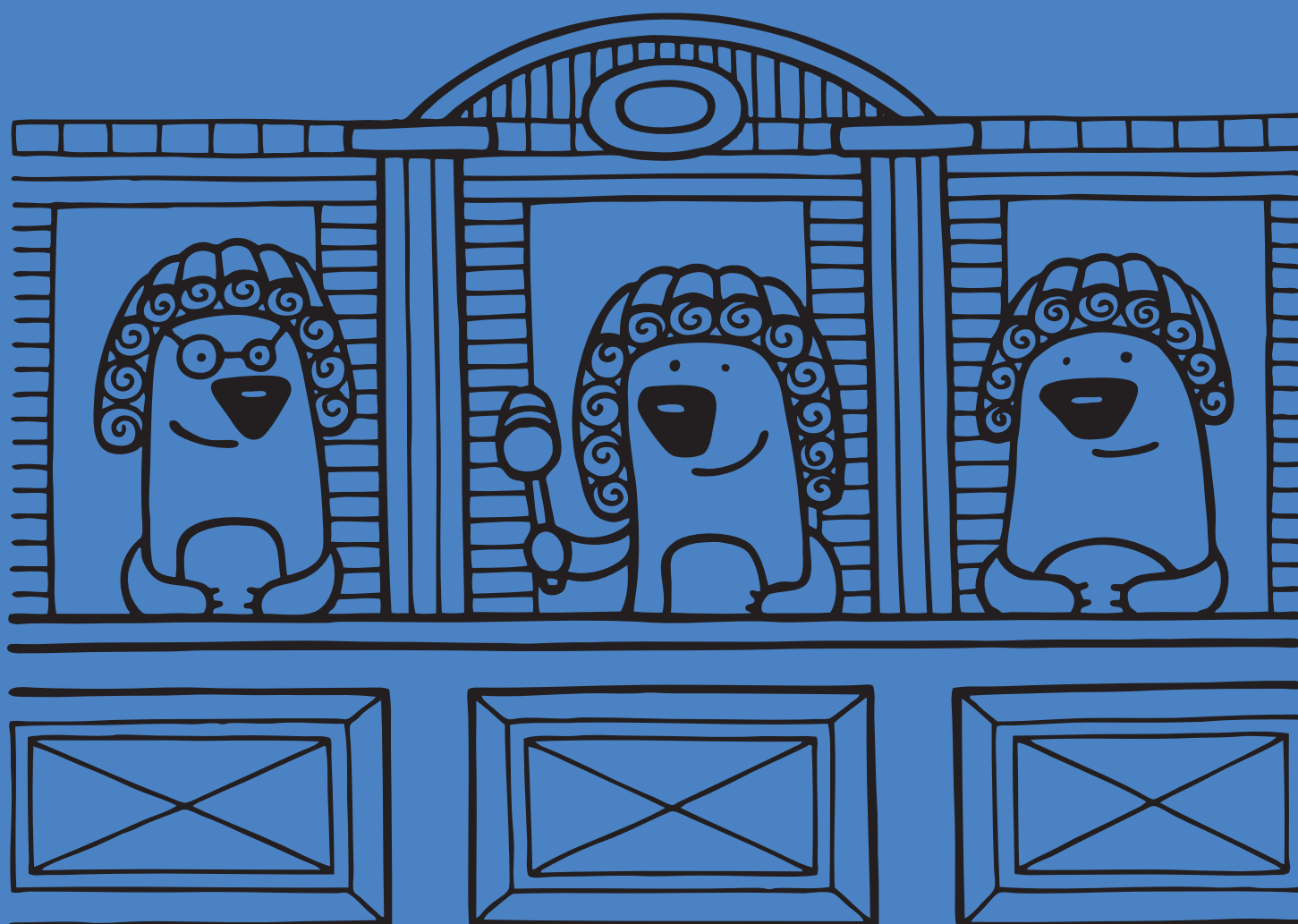
DO NOT TOUCH ANYTHING at the team workstations until so directed by the Finals Director. Contestants are not to converse with anyone except members of their team and personnel designated by the Finals Director. Systems support staff may advise contestants on system-related problems such as explaining 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.

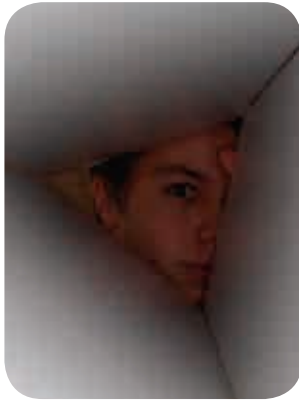


2013 ACM ICPC World Finals

World Finals

Judges





Per Austrin, KTH Royal Institute of Technology,
World Finals judge since 2008

“My first contact with programming contests was in 2002 when I participated in the Nordic Championship and the Northwestern Europe Regional Contest. In 2004 and 2005 I participated in the ICPC World Finals as a contestant. Since then, I have served many times as judge and head judge in the Nordic Championships and the Northwestern Europe Regionals. I was a general hang-around at the Finals until I became a Finals judge in 2008.”



Osman Ay, Computer Science Editor, Surat Publishing & Lecturer, Marmara University
World Finals judge since 2002

“My ACM-ICPC adventure started with a forwarded email message, ‘Contest Finals Call for Problems,’ from Dick Rinewalt. I sent candidate problems and was very surprised and pleased to learn that one of my problems qualified for the 2002 Finals. I have attended as a judge every year since then except 2009. I can say that being a member of this organization has become a delightful part of my life and I am very happy and honored with this membership.”



Babak Behsaz, University of Alberta
World Finals judge since 2013

“Since I was in high school, I have been competing in programming contests among which I enjoyed the ICPC contests the most. I participated in the ICPC World Finals as a contestant in 2004 and as a coach in 2005 and 2007. In addition, I have been involved with problem setting for various programming contests. Last year, I sent a few problems and was very happy to learn that one of my problems was selected for the Finals this year.”



John Bonomo, Westminster College

World Finals Chief Judge since 2010

World Finals judge since 2002

“Actually, my first exposure to the contest was when I was in grad school at Purdue. The university was hosting the East Central Regional Contest that year and I was asked to create a problem set to be used to select Purdue’s team for the competition. Since then, I have served as a judge for the East Central Regional Contest and have had problems accepted in the East Central and North Central Regional Contests.”



Don Chamberlin, Retired IBM Fellow,

UC Santa Cruz

World Finals judge since 1998

“I became interested in the ICPC when the Finals were held in my home town (San Jose, CA, 1997). Being an ICPC judge is a year-round activity. It involves making up problems, solutions, and test suites, and cross-checking them with the other judges. It’s my favorite hobby.”



Walter Guttman, University of Canterbury

World Finals judge since 2011

“I have been a contestant/organizer/co-organizer of local contests 1997-2009, a reserve/contestant/coach/judge/head judge in regionals 1997-2009, and a supporter/reserve/contestant/coach in Finals 1998-2004.”



Martin Kacer, Czech Technical University

World Finals judge since 2006

“As a former contestant, I participated in regionals in 1996-1999. Then I was an assistant RCD and chief judge for Central Europe, university coach, World Finals volunteer, and World Finals judge. I became more closely involved since 2003 due to the 2004 World Finals being held in Prague (World Finals Associate Director) and 2005 in Shanghai (Director of Operations).”



Derek Kisman, Google

World Finals judge since 2004

“I’ve been competing in intellectual contests of all sorts since I was young. I participated for two years as a contestant: 1996/1997 (San Jose, 5th place) and 1997/1998 (Atlanta, 3rd place). When I had the lucky opportunity to get involved behind the scenes with the World Finals, I took it eagerly!”



Peter Kluit, Retired, Delft University of Technology

World Finals judge since 1999

“As of 1992, I judged local (Delft and Dutch National) contests. These contests were not part of ACM-ICPC then, but were selection rounds for the regionals. In 1996 (and later, several times) I judged the North Western European Regional Contest. Tom Verhoef got me involved in my first Finals in Eindhoven in 1999. I knew Tom from judging the International Olympiad in Informatics in Eindhoven (1995).”



Shahriar Manzoor, Southeast University

World Finals judge since 2003

"I am a regular problem setter at UVa Online Judge since 2000, creating around 290 problems for different ACM-ICPC like contests. I have set problems for regional/national contests of Bangladesh, China, Thailand and Malaysia since 2001. Dr. Kaykobad (coach of BUET teams) told me how to submit problems for the World Finals in mid 2002. I submitted some problems and became a Finals Judge in 2003."

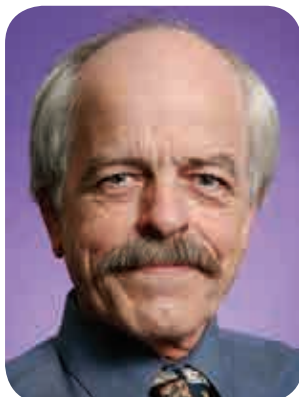


Jo Perry, NC State University

Director of Judging since 2010

World Finals judge since 1987

"A colleague asked me to submit problems to the 1987 Finals. I did, they were accepted, and I've been working as a Finals Judge ever since. The judges who work with me are fearfully smart, creative, and productive. Plus, they're wonderfully good-hearted. I consider myself extremely fortunate to be in such fine company."



Dick Rinewalt, Texas Christian University

World Finals judge since 1982

Director of Judging (many years)

"I had been the chief judge for the South Central Regional Contest for a couple of years. I went to the Computer Science Conference in 1981 (I think it was 1981) and was drafted to do some clerical work for the Finals. I submitted problems and became a World Finals judge the next year and later served as Director of Judging for many years."

In 2010 Dick retired as Director of Judging, but continues working with the World Finals judges.



Matthias Ruhl, Google

World Finals judge since 1997

2012 ICPC World Finals Judge Award recipient

"I had participated in many programming contests after high school and in college, so when I saw an announcement for the 1994-95 regional contest in Zurich, I gave it a try. After being a contestant, I continued as a judge, since it's as much fun, but with much less stress. :)"



Stan Wileman, University of Nebraska — Omaha

World Finals judge since 1979

"My first involvement with the contest was as a contestant, I was part of the team that won an early variant of the national/international contest at Texas A&M University. I don't remember the exact year, but it was before I got my MS, so it was in or before 1972. I recall that the prize for winning was \$100 cash! After joining the faculty at UNO in 1976, I coached the UNO teams (I remember packing numerous kids in a state of NE station wagon). I also served as co-director of the regional contest.

My first involvement with the Finals was through John Metzner. He indicated to me that there was a plan to bring on new Finals judges, first as "apprentice" judges, so their prowess could be assessed. He asked me if I would be interested. I believe he did this when he was also serving as director of the regional contest, when it was held at the John Deere headquarters in Moline, IL. I don't remember exactly the first contest in which I participated as a judge, but I do recall the contest in Dayton (in 1979), because my baggage was lost."



Jakub Onufry Wojtaszczyk, Google,

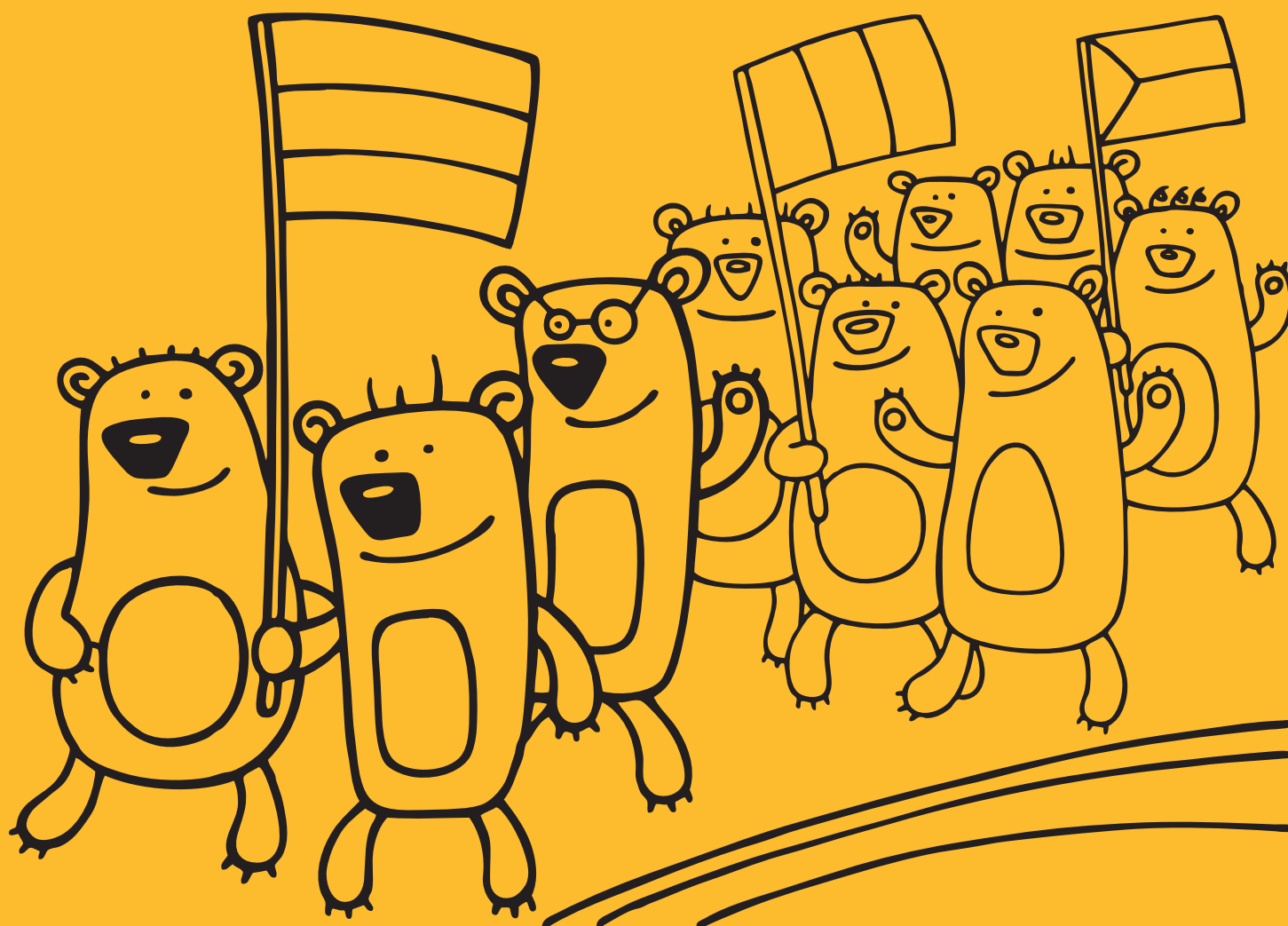
Poland

World Finals judge since 2011

"I realized I enjoy and have a good hand for preparing problems after preparing problems for the Polish Informatics Olympiad. I prepared and submitted a few for the 2011 World Finals and was pleased when one was selected, and pleased to be back this year."

2013 ACM ICPC World Finals

Team Roster



Africa and the Middle East

German University in Cairo

met.guc.edu.eg

Name: Die Eliten

Ahmed Abd Rabo, Mostafa Ali, Mostafa

Fahim, coach: Omar ElAzazy

University of Cape Town

www.uct.ac.za

Name: InsaneCodersPesteringComputers

Graham Manuell, Jacobus Petrus Van

der Merwe, Gwylim Aidan Ashley, coach:

Bruce Merry

The American University in Cairo

www.cs.aucegypt.edu

Name: MMAW

Hossam Samy, Mohamed Abogindia,

Islam El Tayar, coach: Mohamed Abd El-
Wahab

Tishreen University

www.tishreen.edu.sy

Name: Oracle Machine

Zein Shaheen, Doried Abd-Allah,

Mohammad Asad, coach: Shadi Saleh

Alexandria University —

Faculty of Engineering

www.alexeng.edu.eg

Name: PhunIsPhun

Mahmoud Fayyaz, Ahmad Mamdouh,

Ahmed Salama, coach: Ahmed

Abdelrazek

Arab Academy for Science and Technology (Alexandria)

www.aast.edu

Name: SinkInsideTheBox

Ahmed Salem, Ahmed Kamel, Amr

Mesbah, coach: Ahmed El sayed

Cairo University — Faculty of Computers and Information

www.fci.cu.edu.eg

Name: s2++;

Ahmed Thabet, Ahmed Samir Hamza,

Amr Samir, coach: Mohamed Abd

El-Wahab

Asia

University of Tehran

www.fos.ut.ac.ir

Name:)%R}VR?:

Azin Asgarian, Seyed Ali Elahi,

Mohammad reza Sabouri Karkhaneh,

coach: Mohammad Ganjtabesh

National Taiwan University

www.ntu.edu.tw

Name: +1 ironwood branch

Han-Jay Yang, Pi-Hsun Shih, Che Yang

Wu, coach: Pu-Jen Cheng

The Chinese University of Hong Kong

www.cse.cuhk.edu.hk

Name: AcCelebration

Pak Hay Chan, Dawei Huang, Chak Fai

Yuen, coach: Lap Chi Lau

Tsinghua University

www.tsinghua.edu.cn

Name: Again And Again

Jieming Mao, Yi Wu, Tao Mo, coach:

Xiaojun Wu

Zhejiang University

acm.zju.edu.cn

Name: ArcadiaConvent

Weijie Chen, Yuchen Zhou, Cong Chen,
coach: Can Wang

Can Tho University

www.ctu.edu.vn

Name: CTU.Optimists

Phan Viet Lam, Thanh Tu Tran, Do Luong
Van, coach: Cao Hong Ngoc Nguyen

Bangladesh University of Engineering and Technology

www.buet.ac.bd

Name: Choker

Prasanjit Barua, Mohammad Hafiz Uddin,
Muhammad Nazmul Hasan, coach:
Muhammad Kaykobad

Amirkabir University of Technology

www.aut.ac.ir

Name: Deadly Army of AUT

Reza Hosseini Ashtiani, Ali Fiujnomali,
Mehdi Kazemi, coach: Pouria Alimirzaei

Institut Teknologi Bandung

www.itb.ac.id

Name: Dongskar Pedongi

Ahmad Zaky, Christianto Handojo, Irvan
Jahja, coach: Fazat Nur Azizah

SungKyunKwan University

www.skku.ac.kr

Name: DrunkenCoders

Jun-Hee Han, Gyeong-Geun Kim, Yeon-
su Park, coach: Euiseong Seo

Harbin Institute of Technology

www.hit.edu.cn

Name: Encore

Lixin Fan, Jianliu Hu, Qiankun Zhu, coach:
Dalie Sun

Huazhong University of Science & Technology

www.hust.edu.cn

Name: ErBao

Yang Xiao, Jian He, Shunmin Li, coach:
Shi Yin

National University of Singapore

www.nus.edu.sg

Name: Eternia

Trinh Tuan Phuong, Nguyen Tan Sy
Nguyen, Harta Wijaya, coach: Sun-Teck
Tan

Ningbo Institute of Technology, ZJU

www.nit.net.cn

Name: FBH

Lu Shao, HuiDong Zhang, Xiangwei Li,
coach: Minglun Cai

Indian Institute of Technology — Bombay

www.iitb.ac.in

Name: Fringe

Aakash Rao N S, Venkata Deepankar
Reddy Duvvuru, Vinod Kumar Reddy G,
coach: Sharat Chandran

University of Hong Kong

www.cs.hku.hk

Name: GMT

Tsun Au Yeung, Man Lok Wong, Ka
Chung Wong, coach: Luyi Mo

**Hong Kong University
of Science and Technology**

www.ust.hk
Name: HKUST_Optimus Prime
Junhong Cao, Xiongqi Zhang, Ming Fung
Philip Tai, coach: Yin Zhu

**Beijing Institute
of Technology**

www.bit.edu.cn
Name: Keshik
Zhengying Chen, Xingchen Liu, Yaobo
Liang, coach: Yonggang Lin

Renmin University of China

www.ruc.edu.cn
Name: KingBase_CJ
Tang Di, Ouyang Dian, Liu Jun, coach:
Qing Zhu

Fudan University

www.fudan.edu.cn
Name: LeGenD.N
Kailun Chen, Liaoliang Ye, Zhan Yu,
coach: Weiwei Sun

**Shanghai Jiao Tong
University**

www.sjtu.edu.cn
Name: Mithril
Bin Jin, Xiaoxu Guo, Jingbo Shang,
coach: Yong Yu

Northeast Normal University

www.nenu.edu.cn
Name: Moonlight
Xueliang Ren, Xiaozhou Zhao, Zhixian
Yang, coach: Minghao Yin

**Nanyang Technological
University**

www.ntu.edu.sg
Name: NTU The Lyons
Arief Setiawan, Frederikus Hudi, Ivan
Wangsaciptalingga, coach: Peng-Chor
Leong

**Shahjalal University
of Science and Technology**

www.sust.edu
Name: PALINDROME
Md. Maksud Hossain, Forhad Ahmed,
Baker Mohammad Anas, coach: Shahidul
Islam

KAIST

www.kaist.ac.kr
Name: Pandaria
Joonsung Lee, Hankook Lee, Min Kyu
Kim, coach: Sung Yong Shin

**Indian Institute
of Technology — Indore**

www.iiti.ac.in
Name: Paradigm Shift
Sanjeev Shenoy, Piyush Lahoti, Archit
Karandikar, coach: Abhishek Srivastava

Peking University

www.pku.edu.cn
Name: Ragnarok
Chao Li, Zhengkai Wu, Huangxuan Liang,
coach: Guojie Luo

**Zhongshan (Sun Yat-sen)
University**

www.sysu.edu.cn
Name: SYSU_BlackBlade
Ruiyang Tan, Zequn Lin, Junde Huang,
coach: SongShan Guo

**Sharif University
of Technology**

www.sharif.edu
Name: Saboon
Hamed Saleh Mohammadabad, Alireza
Farhadi, Saeed Ilchi Ghazaan, coach:
Kamran Bavar

Tianjin University

www.tju.edu.cn
Name: TJU_ToT
Yuchen Cai, Haosheng Shan, Minjie
Zhang, coach: Ruiguo Yu

**Indian Institute
of Technology — Roorkee**

www.iitr.ernet.in
Name: The 65th bit
Dipit Grover, Tarun Goyal, Sharat
Ibrahimpur, coach: Balasubramanian
Raman

**University of Electronic
Science and Technology
of China**

www.uestc.edu.cn
Name: UESTC-Campanella
Tian Lin, Nanjun Xiong, Yuehang Chen,
coach: Xiaoping Wang

**The University of Electro-
Communications**

www.uec.ac.jp
Name: Ultimate & Escapist Coders
Masafumi Yabu, Izuru Matsuura, Naoto
Osaka, coach: Tomoharu Ugawa

The University of Tokyo

www.u-tokyo.ac.jp
Name: University of Agitsune
Kensuke Imanishi, Makoto Soejima,
Kazuhiro Hosaka, coach: Tomoyuki
Kaneko

**South China University
of Technology**

www.scut.edu.cn
Name: Yamiedie
Fangying Chen, Chunwei Zheng, Feng
Lin, coach: Jie Zhou

**Beijing University of Posts
and Telecommunications**

www.bupt.edu.cn
Name: dango
Xue Li, Yiyong Lin, Ke Yang, coach: Ming
Fang

**International Institute of
Information Technology —
Hyderabad**

www.iiit.ac.in
Name: effort_infinie
Paresh Verma, Kaushik Iska, Kaushik MV,
coach: Vikram Pudi

Tokyo Institute of Technology

www.titech.ac.jp
Name: haskell-lover
Osamu Koga, Kohei Suzuki, Masaya
Suzuki, coach: Takahiro Arai

Beihang University

ev.buaa.edu.cn
Name: plum*_buaa
Qingwen Guan, Yishuai Ni, Boyang Yang,
coach: You Song

**Chennai Mathematical
Institute**

www.cmi.ac.in
Name: psudo
Anudhyan Boral, Siddharth Krishna, Arjun
Arul, coach: Narayan Kumar Krishnan

Europe and Russian Federation

Altai State Technical University

www.altstu.ru
Name: Altai STU
Dmitrii Silin, Sergey Esipenko, Dmitry Uvarov, coach: Elena Kryuchkova

Taras Shevchenko Kiev National University

www.univ.kiev.ua
Name: BZFlags
Roman Iedemskyi, Iaroslav Tverdokhlib, Andrii Maksai, coach: Vitalii Bondarenko

Belarusian State University

www.bsu.by
Name: Belarusian SU 1
Raman Udavichenka, Andrey Malevich, Sergei Zhgirovski, coach: Vladimir Kotov

Izhevsk State Technical University

inter.istu.ru
Name: CynePMyTaHTbI
Ruslan Gatin, Nikita Burlakov, Boris Smirnov, coach: Victor Kamashev

Comenius University

www.uniba.sk
Name: Docikáme d'alej
Tomáš Belan, Vladimír Boža, Peter Fulla, coach: Michal Forišek

Universiteit Leiden

www.leidenuniv.nl
Name: Geen Syntax
Mathijs van de Nes, Josse van Dobben de Bruyn, Bas Nieuwenhuizen, coach: Martijn van Velzen

International IT University

www.iitu.kz
Name: IITU 1
Pavel Kovalenko, Mansur Kutybaev, Alexander Bolshakov, coach: Danabek Kaliazhdarov

Jagiellonian University in Krakow

www.uj.edu.pl
Name: Jagiellonian
Grzegorz Guśpiel, Jonasz Pamuła, Jakub Adamek, coach: Pawel Idziak

Kaunas University of Technology

www.ktu.lt
Name: KTU
Vincentas Mulevičius, Evaldas Čiakas, Karolis Kusas, coach: Tomas Neverdauskas

Kazakh-British Technical University

www.kbtu.kz
Name: Kazakh-British TU 1
Azizkhan Almakhan, Kanat Satylkhanov, Madiyar Aitbayev, coach: Damir Yeliussizov

Moscow Aviation Institute

www.mai.ru

Name: MAI #1

Andrey Zhuravlev, Stepan Belousov,
Alexey Safronov, coach: Nikita Makarov

**Moscow Institute
of Physics & Technology**

www.mipt.ru

Name: MIPT Lambda

Yury Gorshenin, Maxim Pimenov, Kinan
Alsarmini, coach: Evgeny Barskiy

**Moscow State Institute
of Steel and Alloys**

www.misis.ru

Name: MISIS-1

Konstantin Bulatov, Valentine Kofman,
Darya Krohina, coach: Igor Faradjev

Moscow State University

www.msu.ru

Name: Moscow SU ST

Sergey Fedorov, Sergey Rogulenko,
Aleksandr Kaluzhin, coach: Anton
Pankratiev

Novosibirsk State University

www.nsu.ru

Name: Novosibirsk SU

Svyatoslav Shcherbina, George
Beloshapko, Alexander Stenenko, coach:
Tatyana Churina

Perm State University

www.psu.ru

Name: Perm SU: Meerkats

Danil Osharov, Andrey Zayakin, Evgeniy
Akimov, coach: Yuriy Aydarov

**Saint-Petersburg National
Research University of
Information Technologies,
Mechanics and Optics**

www.ifmo.ru

Name: SPb NRU ITMO 1

Mikhail Kever, Niyaz Nigmatullin, Gennady
Korotkevich, coach: Andrey Stankevich

**St. Petersburg
State University**

www.spbu.ru

Name: SPb SU 4

Egor Suvorov, Pavel Kunyavskiy, Dmitry
Egorov, coach: Andrey Lopatin

**Saint Petersburg Academic
University — Nanotechnology
Research and Education
Centre RAS**

www.aptu.ru

Name: SPbAU 1

Evgeniy Krasko, Pavel Chadnov, Sergey
Lazarev, coach: Vsevolod Oparin

Saratov State University

www.sgu.ru

Name: Saratov SU #2

Igor Kudryashov, Maxim Gusarov, Edvard
Davtyan, coach: Michael Mirzayanov

**V.N. Karazin Kharkiv National
University**

www.univer.kharkiv.ua/en

Name: SobolevTeam

Dmytro Soboliev, Ievgen Soboliev,
Arseniy Chelnokov, coach: Grygoriy
Zholtkevych

Samara State Aerospace

University

www.ssau.ru

Name: Teddy Bears

Alexey Dergunov, Nikita Glashenko, Pavel Semushin, coach: Victor Pshenichnikov

Universität Rostock

www.uni-rostock.de

Name: The Deepstackers

Gregor Behnke, Christian Koch, Max Görner, coach: Ragnar Christopher Nevries

University of Wrocław

www.uni.wroc.pl

Name: UWr1

Jakub Tarnawski, Damian Straszak, Anna Piekarska, coach: Krzysztof Lorys

Ufa State Aviation

Technical University

www.ugatu.ac.ru

Name: Ufa SATU: TurtleCommander

Artur Mazgarov, Petr Lezhankin, Artem Ripatti, coach: Alexander Fridlyand

University of Bucharest

www.unibuc.ro

Name: Unibuc BigDawgs

Mihai Calancea, Adrian Budau, Serban Andrei Stan, coach: Dumitran Adrian Marius

Ural Federal University

www.ustu.ru

Name: Ural FU: Orange

Olga Soboleva, Egor Shchelkonogov, Oleg Dolgorukov, coach: Denis Dublennykh

University of Warsaw

www.uw.edu.pl

Name: Warsaw Eagles 2013

Marcin Andrychowicz, Maciej Klimek, Tomasz Kociumaka, coach: Jan Madey

Ludwig-Maximilians

Universität München

www.lmu.de

Name: We don't have a team name

Fabian Gundlach, Tamás Korodi, Reimar Leike, coach: Hans Jürgen Ohlbach

Universitat Politècnica de

Catalunya

www.upc.edu

Name: The team can not be described

Félix Miravé, Pol Mauri, Alex Alvarez, coach: Salvador Roura

ETH Zürich

www.ethz.ch

Name: əsəbətəp wə ətʰ ɪ ʁɔʃtə wɪ

Nikola Djokic, Vladimir Serbinenko, Kieran Nirkko, coach: Robert R. Enderlein

Latin America

Universidade Federal de Pernambuco

www.cin.ufpe.br

Name: 4 Fun 2 Win

Márcio Filho, Pedro Silvestre, Sérgio

Filho, coach: Luiz Silva

Universidade Federal de Minas Gerais

www.dcc.ufmg.br

Name: In rand() we trust!

Filipe Arcanjo, Dilson Guimarães,

Alexandre Davis, coach: Henrique Pinto

Universidad Panamericana Campus Bonaterra

www.up.edu.mx

Name: AEI

Eric Raúl Valdivia Lozano, Fernando

Ignacio Arreola Gutiérrez, Andrea

Santillana Fernández,

coach: Óscar Dávalos Orozco

Universidad Nacional de Ingeniería — FIIS

[www.uni.edu.pe/sitio/academico/](http://www.uni.edu.pe/sitio/academico/facultades/industrial)

[facultades/industrial](http://www.uni.edu.pe/sitio/academico/facultades/industrial)

Name: Los Desempleados FIIS

Eder Maicol Gomez Zegarra, Mario

Ynocente Castro, Jonathan Durand

Espinoza, coach: Roy David Palacios

Rezza

Universidad Nacional del Sur

www.uns.edu.ar

Name: Bahia

Julián Muriel Tejo Rodríguez, Nicolás

Sebastián Fochesatto, Nicolás Komański,

coach: Nicolás Alvarez

Universidad de Chile

www.dcc.uchile.cl

Name: Los Ángeles de Jorge

Christian von Borries, Nicolás Sanhueza,

Sebastián Barbieri, coach: Jorge Perez

Universidad

de Buenos Aires — FCEN

exactas.uba.ar

Name: Buen Kilo de Pan Flauta

Nicolás Bruno Ponieman, Pablo Blanc,

Martin Fixman, coach: Agustin Santiago

Gutierrez

Universidade Estadual

de Campinas

www.ic.unicamp.br

Name: Os Cartolas

Douglas Oliveira Santos, Thiago

Cavalcante, Marcelo Galvão Póvoa,

coach: Murilo Adriano Vasconcelos

Escuela Superior De

Computo Instituto

Politecnico Nacional

www.escom.ipn.mx

Name: Escoders

Christian Adán Hernández Sánchez,

Ethan Adrian Jiménez Vargas, Jair

Ramirez Ibarra,

coach: Edgardo Adrian Franco Martinez

Universidade de São

Paulo — Instituto de

Ciências Matemáticas e de

Computação

www.icmc.usp.br

Name: Señora Margarida

Carlos Eduardo Guillén Dávila, Bruno

Junqueira Adami, Vinicius de Freitas Reis,

coach: Lucas Cavalcante

**Universidad de las Ciencias
Informáticas**

www.uci.cu
Name: UCI2ndTWF
Jorge Fuentes Rodríguez, José Carlos
González Fernández, Yaniel Alfredo
Velázquez Bruceta, coach: Vladimir
Antonio Charchabal Escalona

Universidad de La Habana

www.uh.cu
Name: UH++
Daniel Otero Baguer, Ramón Alejandro
Reyes Fajardo, Leandro Castillo Valdés,
coach: Alfredo Somoza Moreno

**Universidad Nacional de
Colombia — Bogotá**

www.unal.edu.co
Name: UN-07
Christian Mauricio Zuluaga Mora, Diego
Ivan Caballero Rodríguez,
Juan Sebastian Valbuena Bermúdez,
coach: Rafael Alberto Niquefa Velásquez

**Universidad Tecnológica
de Pereira**

www.utp.edu.co
Name: UTP - 01
Santiago Gutierrez Alzate, Diego
Alejandro Agudelo España, Sebastian
Gomez, coach: Hugo Humberto Morales
Peña

EAFIT University

www.eafit.edu.co
Name: Ultimátum
Andrés Mejía-Posada, Santiago Palacio
Gomez, Ana Echavarría Uribe,
coach: Juan Francisco Cardona
Mc'Cormick

**Universidade de São Paulo —
Escola Politécnica**

www.poli.usp.br
Name: Vruum
Guilherme Philippe Figueredo, André
Amaral de Sousa, Marcelo Sales, coach:
Marcio Oshiro

**Instituto Tecnológico
de Aeronautica**

www.ita.br
Name: jQuery bool, jQuery char!
Gabriel Dalalio, Felipe Freitas, Fernando
Fonseca, coach: Armando Gouveia

North America

University of Manitoba

www.umanitoba.ca
Name: Bisons with Byte
Alex Sachs, Aman Sachar, Josh Jung,
coach: Michael Domaratzki

Carnegie Mellon University

www.cmu.edu
Name: CMU1
Jonathan Paulson, Nathaniel Barshay,
Yan Gu, coach: Danny Sleator

University of Calgary

www.ucalgary.ca
Name: Calgary Phoenix
Toryn Klassen, Kent Williams-King,
Hichem Zakaria Aichour, coach: Peter
Hoyer

Columbia University

www.columbia.edu
Name: Columbia 1
Xinhao Yuan, Long Chen, Gang Hu,
coach: Xiaorui Sun

University of Florida

www.ufl.edu
Name: Cookies n' Cream
Cheran Wu, Alex Anderson, Joseph
Thuemler, coach: Dave Small

**Rose-Hulman Institute of
Technology**

www.rose-hulman.edu
Name: Fighting Engineers
Alexander Memering, Erik Sanders,
Anthony Piergiovanni, coach: Shawn
Bohner

**South Dakota School
of Mines and Technology**

www.sdsmt.edu
Name: Hardrockers
Dean Laganieri, Colton Manville, Trevor
Mahoney, coach: Antonette Logar

University of Connecticut

www.uconn.edu
Name: Huskies
Kevin Johnson, Grigory Bonik, Gabriel
Ilie, coach: Ion Mandoiu

**University of Minnesota —
Twin Cities**

www.umn.edu
Name: Inazuma 0b11
Lihua Zhang, Yuan Li, Jonathan Hsiao,
coach: Carl Sturtivant

**Massachusetts Institute
of Technology**

web.mit.edu
Name: MIT 151s
Ilya Razenshteyn, Sepideh Mahabadi,
Rati Gelashvili, coach: Aleksandar
Zlateski

University of Virginia

acm.cs.virginia.edu
Name: NoSuchMethodExceptions
Derek Morris, Neal Milstein, Carson
Wang, coach: Aaron Bloomfield

**University of Illinois
at Urbana-Champaign**

www.illinois.edu
Name: PLATO
Rohan Sharma, Yerzhan Suleimenov,
Joon Young Seo, coach: Marsha
Woodbury

University of Lethbridge

www.uleth.ca
Name: Pronghorns
Christopher Martin, Hugh Ramp, Darcy
Best, coach: Howard Cheng

LeTourneau University

www.letu.edu
Name: Quifobes
Daniel Rothfus, Micah Shennum, Terry
Penner, coach: Brent Baas

Stanford University

www.stanford.edu

Name: Stanford Cardinal

Rohan Puttagunta, Jack Chen, Huaiyu

Wu, coach: Jerry Cain

University of Toronto

www.toronto.edu

Name: University of Toronto Blue

Jacob Plachta, Andre Pereira, Sandro

Feuz, coach: Carolyn MacLeod

University of British Columbia

www.ubc.ca

Name: UBC !

Karling Chen, Jonathan Shen, Paul Liu,

coach: Mushfiqur Rouf

University of Waterloo

www.uwaterloo.ca

Name: Waterloo Black

Deon Nicholas, Guru Guruganesh,

Geoffry Song, coach: Ondrej Lhotak

University of Central Florida

www.ucf.edu

Name: UCF Knights

Daniel Wasserman, Michael Galletti,

Stephen Royal, coach: Ali Orooji

University of Chicago

www.cs.uchicago.edu

Name: Whiteboard Erasers

Kevin Wang, Bill Waldrep, Naren

Hazareesingh, coach: Borja Sotomayor

University of Maryland

www.cs.umd.edu

Name: UMD Terps 1

Hossein Esfandiari, Shangfu Peng, Ang

Li, coach: Mohammadtaghi Hajiaghayi

University of Wisconsin —**Madison**

www.wisc.edu

Name: bistromathics

Eric Kulcyk, Saurabh Aggarwal, Jay Yang,

coach: Dieter van Melkebeek

**University of Southern
California**

www.usc.edu

Name: USC Trojans

Yu Cheng, Rongqi Qiu, Zheng Cao,

coach: David Kempe

South Pacific

University of Sydney

www.usyd.edu.au

Name: Brogrammers

Bin Zhou, Giles Gardam, Egor Karpenkov,

coach: Vincent Gramoli

University**of New South Wales**

www.cse.unsw.edu.au

Name: The Four Milkmen

Casey Roberts, Raveen de Silva, Steven

Fan, coach: Tim Lambert

2013 ACM ICPC World Finals

Awards



The Thirty-seventh Annual **acm** International Collegiate

Programming Contest

sponsored by **IBM**

**The 2013 Mark Measures
Distinguished Service Award**

Presented to



Vladimir Parfenov

**St. Petersburg National Research
University ITMO**

for outstanding service to the ICPC as

Founder and Director of the Northeastern Europe Contests

from 1996 to present and as

2013 World Finals Vice-Director.

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

1 July 2013

St. Petersburg, Russia

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

**The 2013 Joseph S. DeBlasi
Outstanding Contribution Award**

Presented to

Vladimir Vasilev
Vladimir Parfenov
Roman Elizarov
Matvey Kazakov
Andrey Stankevich

**for founding and directing NEERC, coaching ITMO teams,
preparing the next generation of ITMO contestants,
and organizing the 2013 World Finals.**

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.

1 July 2013
St. Petersburg, Russia

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

**The 2013 UPE Distinguished
International Service Award**

Presented to

St. Petersburg National
Research University ITMO

**in honor of the university's accomplishments by her teams,
for hosting local, national and regional contests,
and culminating as**

University Host
of the
2013 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.

1 July 2013
St. Petersburg, Russia

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

**The 2013 World Finals
Outstanding Judge Award**

Presented to



Derek Kisman

for outstanding service to the ICPC as

World Finals Judge

from 2004 to present.

The World Finals Outstanding Judge Award is presented to a World Finals judge who has played an instrumental role in the success of the ACM International Collegiate Programming Contest World Finals by being a regular contributor to the contest problem set and bringing innovations to the judging process.

1 July 2013
St. Petersburg, Russia

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

Senior Coach Award

Presented to



Mohammad Kaykobad

15 years or more bringing teams to the Finals

**Bangladesh University
of Engineering and Technology**

1 July 2013
St. Petersburg, Russia

Coach Award

5 years or more bringing teams to the Finals



Antonette Logar and Ed Corwin

South Dakota School of Mines and Technology

David Van Brackle

Georgia Institute of Technology

University of Central Florida



Borja Sotomayor

University of Chicago



Elena Kryuchkova

Altai State Technical University



Tomoyuki Kaneko

The University of Tokyo



Alexander Fridlyand

Ufa State Aviation Technical University



Vitalii Bondarenko

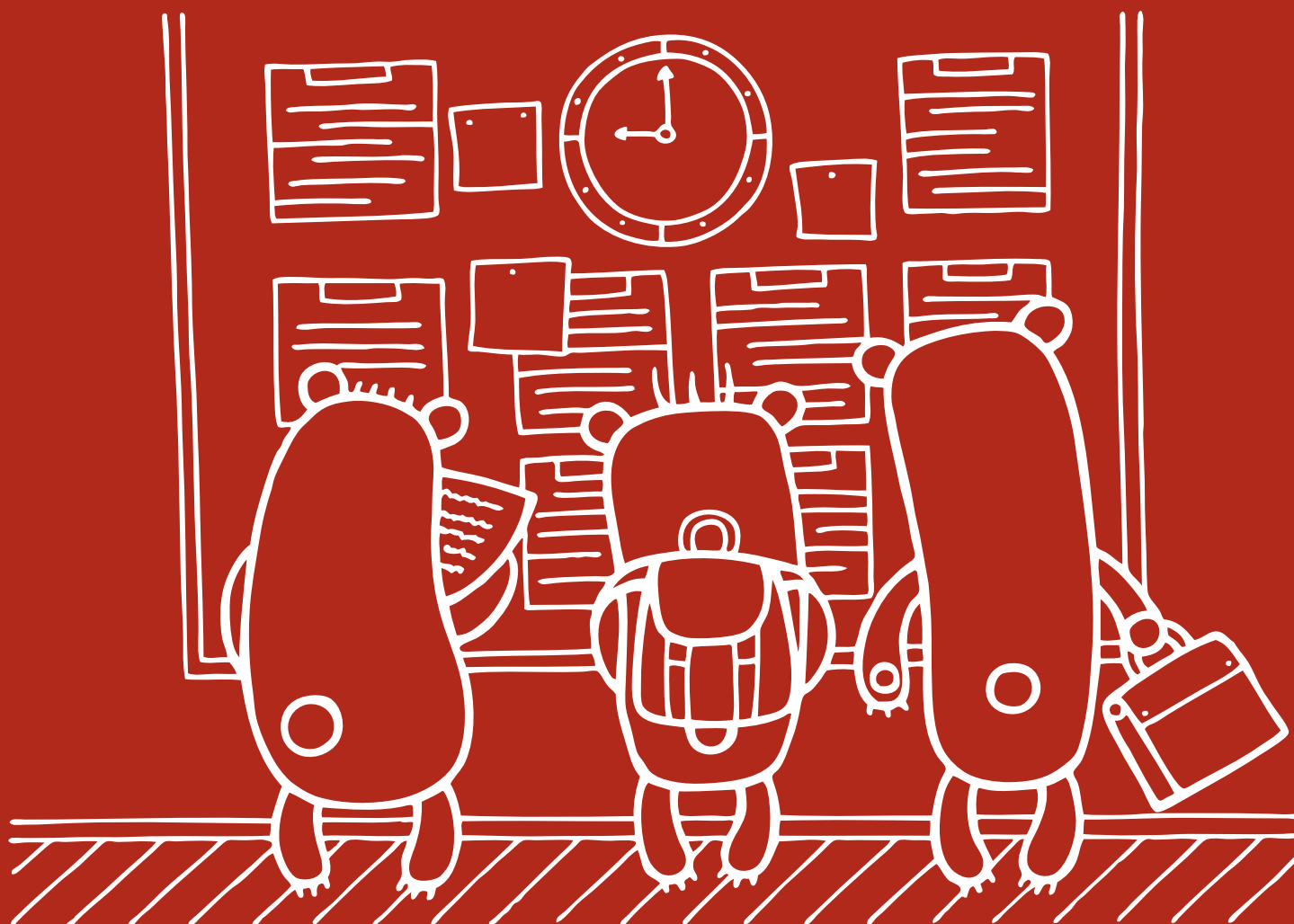
Taras Shevchenko Kiev National University





2013 ACM ICPC World Finals

Schedule



Saturday June 29th

Time	Description	Location	Attendees
	Transportation to ICPC Hotels available Courtesy of ITMO	Airport/Rail Station	ICPC attendees

Sunday June 30th

Time	Description	Location	Attendees
	Transportation to ICPC Hotels available Courtesy of ITMO	Airport/Rail Station	ICPC attendees
18 ⁰⁰ –22 ⁰⁰	Staff & RCDS Registration	Astoria — Lobby & Library	Staff & RCDS attendees
18 ⁰⁰ –22 ⁰⁰ *	Team Registration By appointment	Angleterre — Borsalino Restaurant	Team++
18 ⁰⁰ –22 ⁰⁰	IBM Welcome	Astoria — Wintergarden	All ICPC attendees
20 ⁰⁰ –22 ⁰⁰	CLI Symposium	Angleterre — Conference Hall	Public

Monday July 1st

Time	Description	Location	Attendees
06 ³⁰ –09 ⁰⁰	Breakfast Courtesy of ITMO	Your Hotel	All with badges
08 ⁰⁰ –10 ³⁰	RCD Symposium	Angleterre Hotel	RCDS Attendees
09 ³⁰ –11 ³⁰ *	IBM TechTrek	Manége	Team++
11 ³⁰ –12 ³⁰	Transportation to Opening		
12 ³⁰ –13 ³⁰ *	2013 ACM ICPC Opening Ceremony Lunch Courtesy of Yandex	Anichkov Palace	
14 ⁰⁰ –16 ³⁰ *	2013 ACM ICPC Opening Ceremony	Alexandrinsky Theatre	All with badges
16 ³⁰ –17 ³⁰	Transportation to Manége		
17 ³⁰ –19 ³⁰ *	IBM TechTrek Dinner		
18 ³⁰ –22 ⁰⁰	Walking Excursion to Hermitage Museum and Free Time Courtesy of IBM	Manége	
20 ⁰⁰ –21 ⁰⁰	New Regional Contest Director's Workshop	Angleterre — Bulgakov	New RCDs
20 ⁰⁰ –22 ⁰⁰	CLI Symposium	Angleterre — Conference Hall	Public
20 ⁰⁰ –23 ³⁰	IBM Chill Zone	Manége	All with badges

* Required attendance for teams with on-site coach accessible

Tuesday July 2nd

Time	Description	Location	Attendees
06 ³⁰ –07 ³⁰	Breakfast Courtesy of ITMO	Your Hotel	
07 ³⁰ –08 ¹⁵	Transportation to Dress Rehearsal Last bus leaves at 8:15	Manége	All with badges
08 ⁴⁵ –09 ³⁰	Spectators enter Spectator Gallery		
09 ⁰⁰ –09 ³⁰ *	Contestants enter Contest Area		Teams and On-Site Coaches
09 ³⁰ –12 ⁰⁰ *	2013 ACM-ICPC World Finals Dress Rehearsal Teams must leave notebooks at their workstations at the conclusion of Dress Rehearsal Teams wear ICPC t-shirts No food, drinks or electronic devices	Jubilee — Main Arena	All with badges
10 ³⁰ –12 ⁰⁰	On-Site Coaches may join the teams in the Team Area Coaches may bring cameras onto the contest floor during the Dress Rehearsal		On-Site Coaches
12 ⁰⁰ –13 ³⁰ *	ICPC Challenge Lunch Courtesy of ITMO	Jubilee — Small Arena	All with badges
13 ³⁰ –14 ⁰⁰ *	Answer to Dress Rehearsal Questions	Jubilee — Main Arena	Team++
14 ⁰⁰ –15 ⁰⁰	Coaches Executive Meeting With Dr. Bill Poucher, ACM-ICPC Executive Director and Dr. Jo Perry, Director of Judging	Jubilee	Coaches++
14 ⁰⁰ –15 ⁰⁰	Open Practice Session	Jubilee — Main Arena	Team++
15 ⁰⁰ –15 ³⁰	Transportation to Excursion	Jubilee	
15 ⁰⁰ –18 ⁰⁰	Excursion — Peter & Paul Fortress Courtesy of ITMO	Peter & Paul Fortress	All with badges
18 ⁰⁰ –19 ⁰⁰	Transportation to Manége		
18 ⁰⁰ –20 ⁰⁰ *	UPE Dinner Courtesy of IBM	Manége	
20 ⁰⁰ –22 ⁰⁰	CLI Symposium	Angleterre — Conference Hall	Public
20 ⁰⁰ –23 ⁰⁰	IBM Chill Zone	Manége	All with badges

Wednesday July 3rd

Time	Description	Location	Attendees
06 ³⁰ –07 ³⁰	Breakfast Courtesy of ITMO	Your Hotel	All with badges
07 ³⁰ –08 ¹⁵	Transportation to World Finals Last bus leaves at 8:15	Manége	
08 ⁴⁵ –09 ³⁰	Spectators enter Spectator Gallery	Jubilee — Main Arena	Public
09 ⁰⁰ –09 ³⁰ *	Contestants enter Contest Area		Teams
09 ¹⁵ –17 ³⁰	Watch the ICPCLive Broadcast Coverage by Yandex	Jubilee — Small Arena	All with badges
09 ³⁰ –15 ⁰⁰ *	2013 ACM-ICPC World Finals Teams wear ICPC t-shirts. Notebooks at team workstations. No Electronic Devices allowed on the Contest Floor	Jubilee — Main Arena	Public
12 ⁰⁰ –14 ⁰⁰	Coaches Appreciation Lunch Courtesy of ITMO	Jubilee — Small Arena	All with badges
15 ⁰⁰ –15 ³⁰ *	2013 ACM ICPC World Finals Highlights Coverage by Yandex	Jubilee	Public
15 ³⁰ –17 ⁰⁰ *	2013 ACM-ICPC Closing Ceremony		
17 ⁰⁰ –18 ⁰⁰	Transportation to Celebration		
18 ⁰⁰ –23 ³⁰ *	2013 ACM-ICPC World Finals Celebration and Dinner Hosted by IBM	TBA	All with badges
22 ⁰⁰ –24 ⁰⁰	Transportation to Hotels	Celebration	

Thursday July 4th

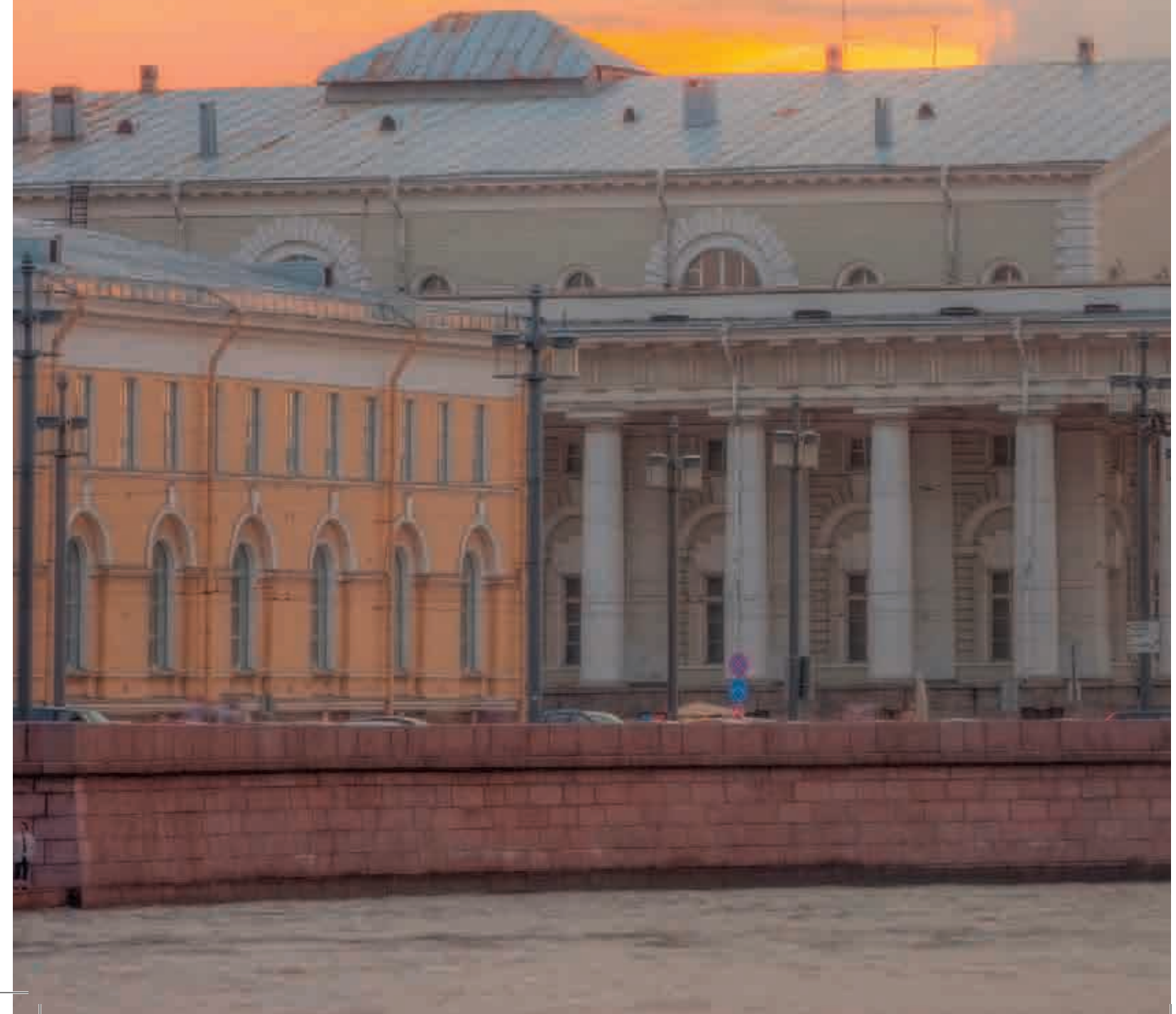
Time	Description	Location	Attendees
06 ³⁰ –10 ⁰⁰	Breakfast Courtesy of ITMO	Your Hotel	All with badges
08 ⁰⁰ –14 ⁰⁰	RCD follow-up meetings (optional)	Angleterre Hotel	RCDS Attendees
13 ⁰⁰ –14 ³⁰	Volunteer Appreciation Lunch Courtesy of IBM	Astoria — Wintergarden	By invitation
–12 ⁰⁰	Team hotel checkout		Team++
	Transportation to Airport/Rail Station available Courtesy of ITMO	Your Hotel	All with badges

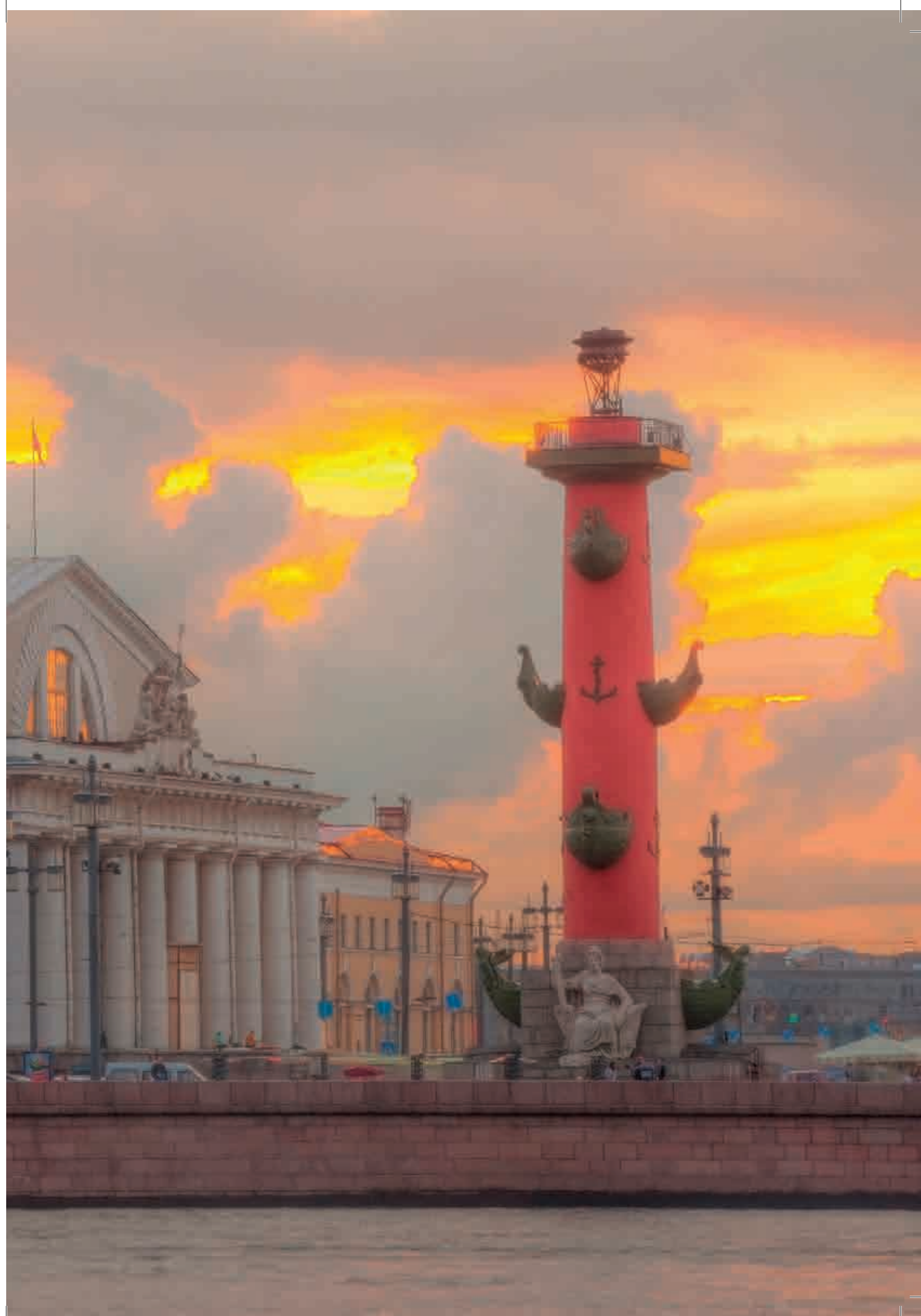
Friday July 5th

Time	Description	Location	Attendees
–12 ⁰⁰	RCD hotel checkout		RCDS attendees
	Transportation to Airport/Rail Station available Courtesy of ITMO	Your Hotel	All with badges

ICPC 2013

Venues





The Peter and Paul Fortress

On May 27, 1703 on small Hare Island on the right bank of the Neva the Peter and Paul Fortress was laid down, — St. Petersburg was founded. The fortress became the heart of the Tsar's beloved St. Petersburg — the new capital of Russia, the military stronghold of the Russian army. The fortress was intended to protect against the invasion of the Swedes. During its construction, all latest achievements of the European fortification were made use of. Canons were erected on earth walls. Three years later, construction of walls and bastions in red brick started. The works were carried out under the supervision of the architect D. Trezzini.

In the second half of the 18th century, under Catherine II, the walls and bastions of the fortress, overlooking the Neva, were faced with gray granite and acquired their present magnificent appearance.

However, this high-rate Russian fortress did not ever directly take part in military actions. It was destined to be something else. The fortress gained a notorious reputation as “a Russian Bastilles” — the main political prison of Russian Empire. The most important prisoners were incarcerated here. In 1718, at the behest of Peter, his son, Tsarevitch Alexey, being in opposition to Peter's reforms and charged with plotting against his father, died in one of the casemates of Trubetskoy (south-west) Bastion. The casemates of the bastions and curtain walls, the Secret House of St. Alexei's Ravelin and the prison of the Trubetskoy Bastion were used to incarcerate the prisoners. Since 1924 the Fortress has been the museum. According to the old tradition, at 12 noon sharp a canon is fired from the bastion.

The central building of the Fortress is St. Peter and Paul's Cathedral, built by D. Trezzini in 1712–1733. The cathedral, its 122-meter bell-tower with the spire, crowned by the weathervane in the form of a flying angel holding a cross are the symbols of the city. The Peter and Paul Church had been a cathedral church, until St. Isaac's Cathedral was built in the mid-19th century. After that it became the court church.

In 1725 in the as yet uncompleted cathedral Peter I was buried. Ever since then the cathedral served as the burial place of the royal family. Forty six Emperors, Empresses, Grand Dukes and Duchesses are entombed in the Cathedral and the Grand Dukes' Burial Chapel. On July 16, 1998 Emperor Nicholas II, the Empress, the Tsar's children, Doctor Botkin, a valet, a chambermaid, cooks and serfs, who had been shot in 1918 (80 years ago on the same day) were buried in St. Catherine's Chapel of the Cathedral.





To the left of the entrance to the Cathedral, you will see a small building — the Boat House. The small boat of Peter I used to be exhibited there. At present it contains an exact replica of the boat, the original is in the Central Naval Museum. In the Boat House you can buy various souvenirs.

The building of the Mint, which still functions, overlooks the square. Russian subsidiary coins, orders, medals and badges are minted here.

In the Commandant's House there is a permanent exhibition "The History of Petersburg-Petrograd in 1703–1917" of the Museum of the History of the City.

On the territory of the Fortress your attention will be drawn by the bronze figure of Peter I (sculptor M. Shemyakin).

At the end of your walk around the Peter and Paul Fortress you can go out onto the Neva quay, from where you can enjoy a beautiful view of the Palace Embankment.

The Hermitage

All the dignitaries — presidents and royalty, as well as hundreds of thousands of people from all regions of Russia and all corners of the world, while visiting St. Petersburg, do not leave it without visiting its tremendous museums. And above all, of course, the Hermitage.

The Hermitage means, in French, a place of solitude. But you will hardly be able to find a place of solitude in one of the largest art museums of the world. But you will be able to see one of the most grandiose collections, to enjoy contact with culture of practically all times and people.

The Hermitage is regarded as having been founded in the year 1764, when Russian Empress Catherine II (wife of Peter III) bought in Berlin the first collection of paintings (mostly of the Dutch and Flemish schools).

The Hermitage possesses the richest collections of paintings, graphics, and applied art, displayed in its 1057 halls. The building is truly enormous. There are 117 of staircases alone in the Winter Palace. But even these premises can't accommodate the treasures, most of which are kept in the vaults. The museum's collection embraces the entire history of the world's art — from the ancient Greek bas-reliefs to the masterpiece paintings of the 20th century. For instance, the Hermitage possesses a unique, second largest (after Holland) collection of Rembrandt, comprising 22 canvasses, an excellent collection of the "younger Dutch artists". The greatest sculptors are well represented in the museum. Paintings of the Italian Renaissance, French impressionists and many, many others are on permanent display in the Hermitage. For example, the Numismatics Department, displaying coins, orders and medals of all times and people, is of undoubted interest.



Serious scientific research is carried out in the Hermitage. Art treasures are examined with regards to their authentication, authorship and dating. Activities are held in cooperation with other world's museums. The Hermitage is one of the world's leading restoration centres.

On the ground floor of this remarkable museum you can find the art of ancient Egypt, burial attributes, stone and wood tombs and sarcophagi, statues of Egyptian

gods and goddesses, household articles, ancient wooden ornaments, clay tablets bearing inscriptions and papyri rolls. Assyria and Babylon, the ancient empires of Mesopotamia, will impress you with remains of rock carvings of warriors and emperors, and ancient cuneiform writing. You will feel the mystery of death and eternity.

The exhibits of the department of ancient Greece in the dimly lit and cool halls will remind you of the excellent sculptors and craftsmen of Pheidias' and Pericles' time. Amphorae, glassware, black clay red-figure vases will demonstrate you scenes of life of ancient Greeks, where the cult of the body and the healthy way of life prompted these people's striving for the beautiful. It should be mentioned that apart from authentic Greek sculptures, the Hermitage has a lot of splendid ancient Roman copies.

Ancient Rome itself is represented by the sculptures of Caesars' period, especially, by a so-called Roman portrait, depicting the power and determination of action seeking historical and mythological characters — the power, which sometimes overtops wisdom and justice, reflecting a sense of masterfulness and cruelty of the Great Empire.

The first floor will astound you with the paintings of the early 14th — late 19th centuries. England, France, Spain, Germany, the Netherlands, Italy will strike your eyes with wonderful golden, light-blue, dark and sunny colors. Five centuries of the Euro-





pean painting will enlighten your soul by their fabulous and beautiful world. You will see the works of Leonardo da Vinci, Raphael, Veronese, Titian, Rembrandt, Velazquez, El Greco, Zurbaran, Murillo, Bruegel the Younger and Bruegel the Elder, Rubens, Cranach, Foussin, Boucher, Watteau, Caravaggio, Tintoretto, Canaletto, Gainsborough, Van Dyck. Italian majolica, porcelain, glassware, Carrara marble, German porcelain and faience, lacquer boxes and snuff boxes, arms and armor, figures of knights atop horses in the Knight Hall, tapestries, and a lot, lot more.

Take a breath, look out of the window at Palace Square — and imagine the military parades of the times of Russian Emperors, of cuirassiers and uhlans, and later, the parades of the Soviet times. The Pavilion Halls displays the amazing Peacock Clock. A number of the Hermitage's halls are monumental: the Hall of Peter the Great (the Small Throne Hall), the Malachite, the Coat-of-Arms, the Nicholas Halls. The walls of the renowned gallery are lined with portraits of commanders and heroes of the Patriotic War of 1812.

The monumental tomb of Alexander Nevsky, created in the mid-18th century at St. Petersburg Mint, is a masterpiece.

The beauty of the Hermitage interiors defies all description. The same concerns the light blue and golden light pouring from the Venetian glass windows facing the bridges and the Neva, the Spit of Vasilievsky Island, the Peter and Paul Fortress.

On the second floor you will meet the impressionists' and post- impressionists' paintings: Renoir, Manet and Monet, brilliant Degas, Cezanne, Toulouse-Lautrec, "dotty" Seurat, Matisse, Van Dongen (the remarkable portrait of a lady in a hat), Bonnard, Derain, Rousseau, Gauguin and Van Gogh, and last, but not the least, versatile master Picasso, musical Kandinsky, "northern" canvasses of Rockwell Kent, Rodin's Sculpture "Eternal Spring", a theme of love, beauty, youth and innocence.

The Alexandrinsky Theater

The theater classics (Shakespeare. Moliere, Chekhov, Pushkin), excellent acting skills are the feature of this oldest theater in St. Petersburg (founded in 1756). In 1828-1832 K. I. Rossi erected a new building for the theater. At that time it was named the Alexandrinsky Theater (after Empress Alexandra Fyodorovna, Nicholas I's wife). The interior of the "imperial" theater's auditorium is splendid.

Behind the building of the theater, there is one of the most amazing and perfect streets in the world — Architect Rossi's Street, named after its creator. The harmony and perfection of this architectural masterpiece are ensured among all by the proportions of this street. Its width is equal to the height of the buildings (22 meters). The length of the facades of the buildings is ten times their height (220 meters). One of the buildings houses the A. Y. Vaganova Academy of the Russian Ballet. Its graduates have earned fame not only in Russia, but also on the world's stage.



Anichkov Palace

At the corner of Nevsky Prospect and the Fontanka, there is Anichkov Palace, named after Lieutenant Colonel Anichkov, a builder of the first wooden bridge of Peter's time across the Fontanka. In 1741–1754 the palace was built in the baroque style to M. G. Zemtsov's design, F B. Rastrelli. Later, it was rebuilt by the architect I. E. Starov in the early classical style.

Originally, the palace belonged to Count A. G. Razumovsky, Empress Elizabeth Petrovna's favorite. Afterwards, Empress Catherine II presented it to Prince G. A. Potyomkin. In the late 18th century the palace was transferred to the State Treasury and belonged to the Royal family. In 1881–1894 Anichkov Palace was a residence of Emperor Alexander III.

There is now the children's cultural centre in this splendid palace. Until 1990 it was called the Palace of Pioneers, now it is the Palace of Youth Creativity.

Next to it, there is a marvelous garden, where in 1817–1818, two pavilions were erected under the supervision of K. I. Rossi. The figures of the Russian knights by the pavilions were created by V. I. Demuth-Malinovsky. Nowadays, these pavilions host exhibitions.



St. Isaac's Cathedral

St. Isaac's Cathedral is the most powerful architectural edifice in St. Petersburg, full of vigor and might. It was built to the design and under the supervision of A. Montferrand. The cathedral was built over a period of 40 years and completed in 1858. The architect was foretold that he was to die soon after the construction of the cathedral. Indeed, it happened one month after the consecration of the cathedral.

The construction of the cathedral became a major achievement of the Russian construction technique. There are over ten thousand piles in its foundation. It is the heaviest cathedral in St. Petersburg. It weighs 330 thousand tons. There are 112 monolith columns in the cathedral. Voice pots were used in the construction of the dome. They were turned downwards for both good acoustics and to support the dome, which is over 25 meters in diameter. The cathedral is 101.5 meters high and can hold 14 thousand people.

You can climb up a spiral staircase to the colonnade of the dome drum. At an altitude of 43 meters you can have a good panorama of the city.

The building of the cathedral belongs to the state museum. But in recent years services have been held here on major religious festivals and special occasions.





The Manège — the Central Exhibition Hall

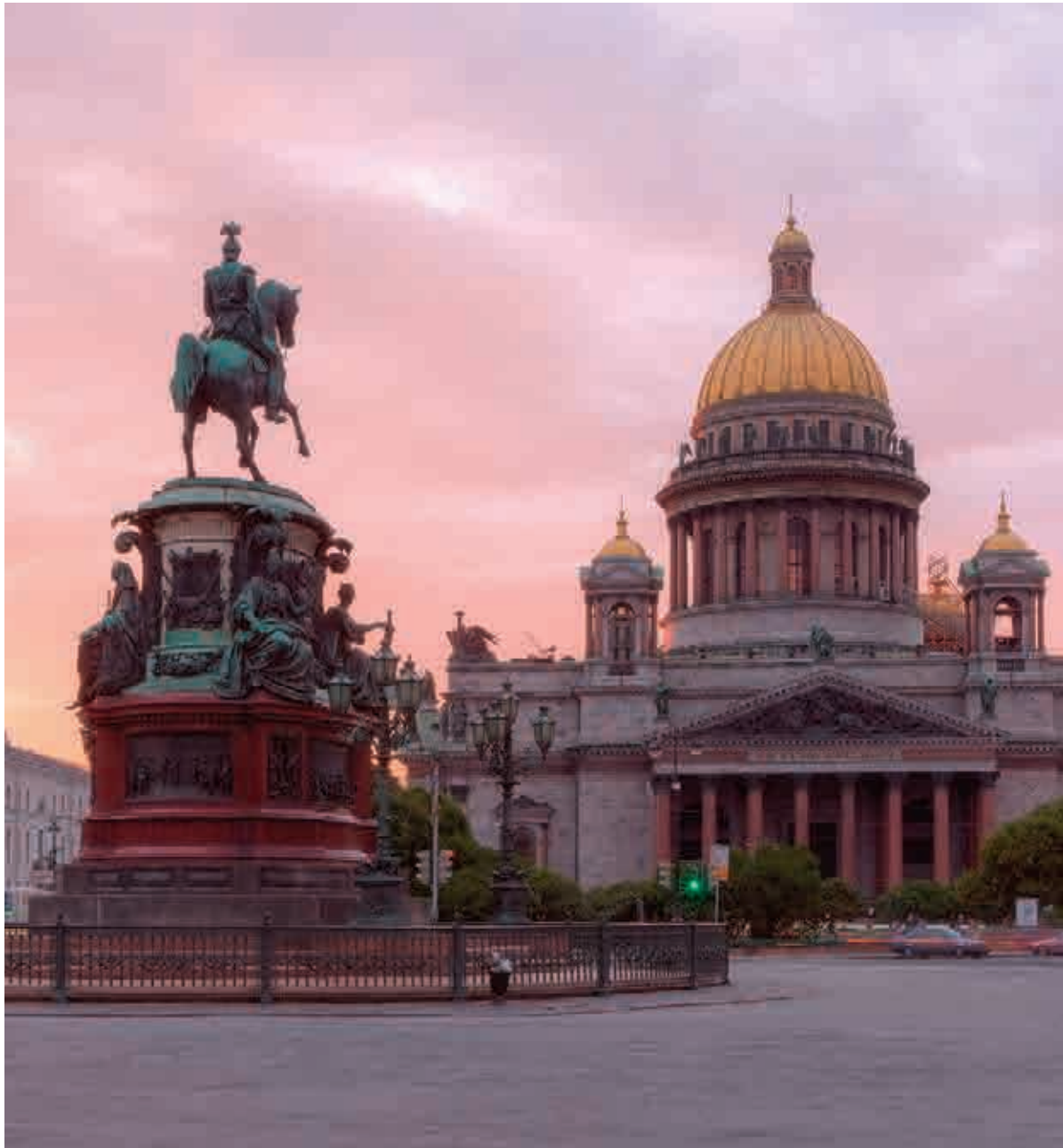
Next to St. Isaac's Cathedral there is the oblong building of the former Manège of the Cavalry Guard regiment. It was erected in 1804-1807 to the architect D. Quarenghi's design. In front of the Manège there are the equestrian groups of Dioscuri (sculptor P. Triscorni). Nowadays it houses the Central Exhibition Hall, where exhibitions of artists are constantly held, and a book fair is organized annually.

On St. Isaac's Square

From Nevsky Prospect along Bolshaya Morskaya Street you can get to magnificent St. Isaac's Square.

The Mariinsky Palace with its solemn grand facade was built for Grand Duchess Maria Nikolaevna, daughter of Emperor Nicholas I in 1839-1844 (architect A. I. Stakenschneider). The palace dazzles with the refinement of its interior decoration.

Since the 1880s the building has traditionally been the seat of the governmental bodies. At the turn of the 19th–20th centuries it was the home of the State Council, the Council of Ministries of the Russian Empire. And today the state flag of the Russian Federation flies over the Mariinsky Palace. It is the home of the St. Petersburg Legislative Assembly. In front of the palace, there is the Blue Bridge, the widest bridge in the city (99.95 m).



The Monument to Nicholas I

The monument to Emperor Nicholas I on the high multi-tier pedestal in the centre of St. Isaac's Square was unveiled in 1859. The monument is absolutely unique due to the fact that the huge, 6-meters high bronze monument has only two points of support — two legs of the horse. This is the achievement of the sculptor P. Klodt, whose calculations proved to be accurate.



Hotel Astoria

Hotel Astoria is a five-star hotel in Saint Petersburg, Russia opened in December 1912. It has 213 bedrooms, including 52 suites.

It is located on Saint Isaac's Square, next to Saint Isaac's Cathedral and across from the historic Imperial German Embassy. The architect of the hotel was the Russo-Swedish architect Fyodor Lidval, who developed a style based on art nouveau and also influenced by neo-classicism. Hotel Astoria, along with its neighboring sister hotel, Hotel Angleterre, is managed by The Rocco Forte Collection and is a member of The Leading Hotels of the World. The hotel underwent a complete refurbishment in 2002.



Angleterre Hotel

The Angleterre Hotel is a modern, luxury business-class hotel on Voznesensky Prospekt at Saint Isaac's Square in Saint Petersburg, Russia originally built in the 1850s. The hotel has 193 rooms, including five suites.

The hotel's name means 'Hotel England' in French, and it was changed after the Russian Revolution, first to Hotel International (1919-1925) and then Hotel Leningrads-kaya from 1948 to the early 1970s. It is famous in Russia as the place where poet Sergei Yesenin hanged himself in 1925.



Renaissance St. Petersburg Baltic Hotel

The Renaissance St. Petersburg Baltic Hotel, Russia is an ideal place to enjoy the city's charm with a fabulous downtown location next to St. Isaac's Cathedral and steps away from Mariinsky Theater and the Hermitage Museum. From the moment you arrive, our St. Petersburg downtown hotel captivates you with an elegant interior, fresh-cut flowers and original artwork. Elegant boutique hotel will exceed your expectations.



Petro Palace Hotel

There is no other city quite like Saint Petersburg, and the Petro Palace Hotel is in the very heart of it. Located just steps away from the Hermitage and St. Isaac's Cathedral and surrounded by some of the city's best restaurants and bars, vibrant cafes and most exciting theater and nightlife the Petro Palace Hotel is a brand new superior 4-star hotel which offers the best location and superb amenities.

Hotel Domina Prestige

Hotel Domina Prestige St. Petersburg — the first hotel of the Italian hotel chain Domina Hotels & Resorts in St. Petersburg and the flagship of the network in Russia.

The hotel is located on the Moika in a beautiful six-story building, known as the home of Baroness Jomini-Kleiber. On one side of his views of the waterfront and the other — on Morskaya Street and St. Isaac's Cathedral.

Hotel Domina Prestige St. Petersburg is proud to be located in a building that has become part of the history of the great city. This magnificent building was built in 1759-1760 under the project of architect Andrew Kvasova and is identified by an object of cultural heritage. The building was subjected to several reconstructions: at the beginning of the 1840s on the Moika Embankment, a new body, built by the architect of Taman, and in another 30 years the body standing on Bolshaya Morskaya Street, was rebuilt by military engineer Karlovic. During Soviet times, the house was inhabited until the 1970s, it is not accommodated due to deterioration of the structure. Unfortunately, for many decades, this monument is slowly falling into decay, and by the end of 1990 was in poor condition.

Today the house on the Moika again welcomes guests in all its splendor. The once ensembles Petersburg Italian architects built, so it was entrusted to the Italian reconstruction of the building. Famous artist Gianmarco Kavanino regained its historic appearance, and at the same time using bright colors and strange sculptures embodied the eclectic decor in a modern city.



Yubileyny Sports Palace

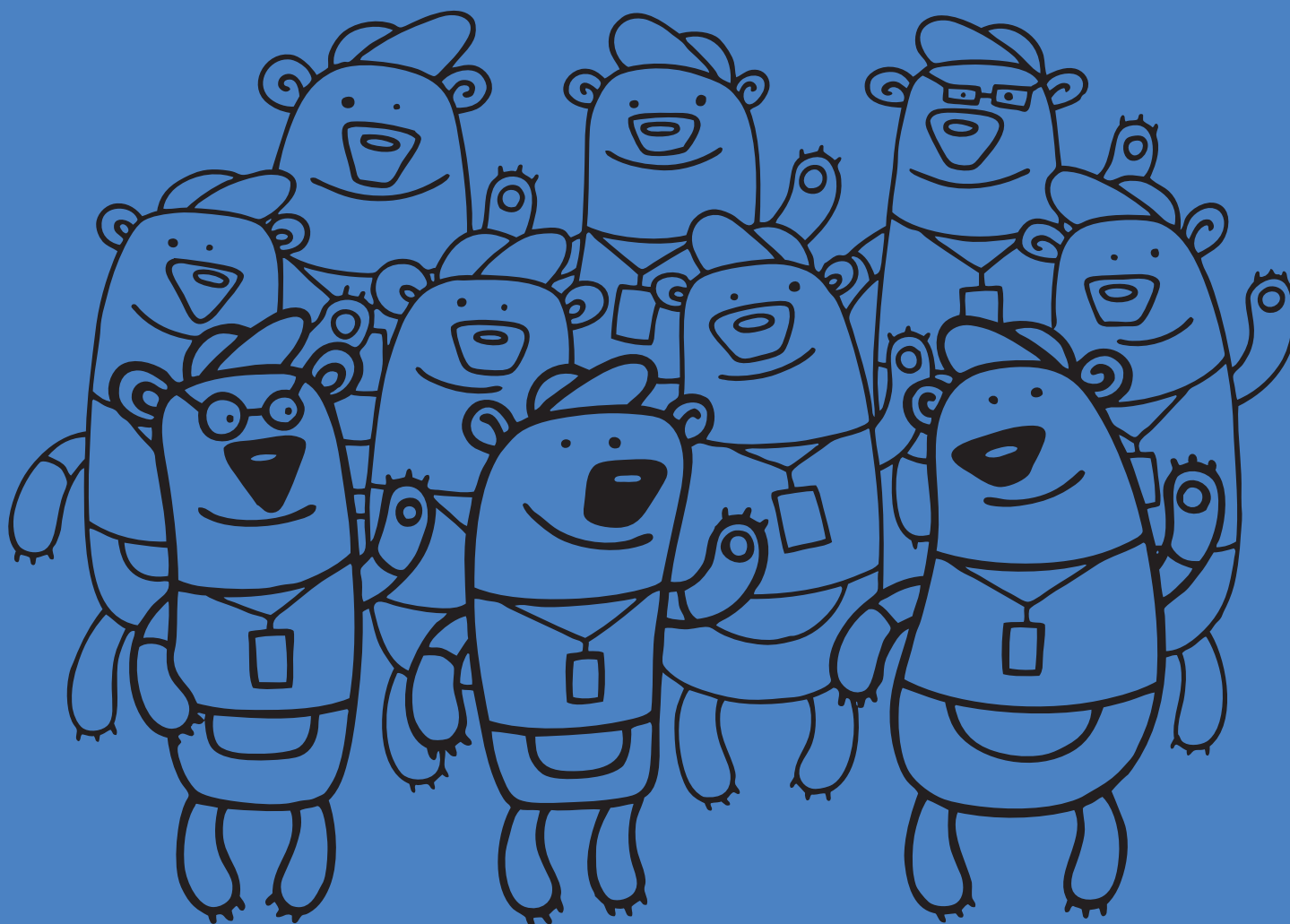
Yubileyny Sports Palace, Sportivniy kompleks Yubileyny; also translated as Yubileiny (Jubilee) Palace of Sports, is an indoor sports arena and concert complex located in St. Petersburg, Russia. It houses 7,012 seats for ice hockey and up to 7,700 seats for basketball. It is accessible from the Sportivnaya metro station. The complex was completed in 1967 as a present from the Federation of Trade Unions to the city on the 50th anniversary of Soviet power.

The Palace hosts a wide variety of activities, including athletic training and competitions, conventions, festivals, and musical concerts. The arena is the home venue of basketball club Spartak Saint Petersburg, hosting both the men's and women's teams games.



2013 ACM ICPC World Finals

ICPC Volunteers



Staff

Roy Andersson, ICPC Subcontest Manager

Samir Ashoo, SysOps Team

Vassily Astakhov, ICPC Live – Analyst

Per Austrin, World Finals Judge

Osman Ay, World Finals Judge

Dzmitry Bahdanau, ICPC Live – Analyst

Natalie Beach, ICPCNews Video

Babak Behsaz, World Finals Judge

Garrett Benoit, ICPCNews Photo

Dmitriy Bogdanov, ICPC Live – Analyst

John Bonomo, World Finals Chief Judge

Bill Booth, CLIS – Chief Editor

Troy Boudreau, SysOps Team

Stephen Bourne, ACM President Emeritus

Carlos Marcelino Casas Cuadrado, CLI –
ICPC On-line Judging

Tomáš Černý, ICPC HQ Global Services – Lead
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Don Chamberlin, World Finals Judge

Sergey Chernyshev, ICPC Live – Video

John Clevenger, ICPC Technical Director

James Comer, ICPC Associate Director

Marjene Comer, ICPC On-site Assistant
Manager

Mattias de Zalenski, ICPC Live – Graphics

Joseph DeBlasi, ICPC Awards Committee

Hans Domjan, ICPCNews – Producer/Photo
Management

Jacob Dlougach, ICPC Live – Analyst

Jeff Donahoo, ICPC Deputy Executive Director;
ICPC HQ Services Director; ICPCNews
Executive Director

Lisa Donahoo, ICPC Assistant Manager

Yakov Dlugach, ICPC Live – Analyst

Niklas Ek, ICPC Live

Jaap Eldering, CLI – DOMJudge

Roman Elizarov, ICPC Secretary

Emma Enström, Contest System

Mats Erixon, ICPC Live Advisor

Nathan Farris, ICPC Videographer

Taylor First, ICPC HQ Staff

Zach First, ICPC HQ Global Services

Mohamed Fouad, ICPC Deputy Director of
Operations

Marc Furon, CLI – Problem Pooling

Don Gaitros, World Finals Chief Marshal

Vicki Gaitros, ICPC Registrar Assistant

Renat Gimadeev, ICPC Live – Analyst

Mikael Goldmann, Contest System

Robert Greenleaf, ICPC Music Composer

Walter Guttman, World Finals Judge

Felix Halim, CLI – UVA Online Judging

Greg Hamerly, ICPC Dress Rehearsal Chief
Judge

Fredrik Heintz, ICPC Live Graphics

Nicole Hosh, ICPCNews – Social Media
Assistant

Sharon Humphrey, ICPC Registrar

Patrick Hynan, ICPC Director of Operations

Bettina Johnson, ICPCNews Social Media
Director

Martin Kacer, World Finals Judge

Ben Kelley, ICPC HQ Steering Committee

Thijs Kinkhorst, CLI – DOMJudge

Derek Kisman, World Finals Judge

Peter Kluit, World Finals Judge

Claus Aase Knudsen, ICPC Live

Joel Korpi, ICPCNews Photographer

Gunnar Kreitz, Contest System – Development
Lead

Egor Kulikov, ICPC Live – Analyst

Evgeniia Kulikova, ICPC Live – Video

Nikolay Kuznetsov, ICPC Challenge Team

Vladimir Kuznetsov, CLI-Competitive Training
Camps

Mikael Lagerkvist, Contest System

Doug Lane, SysOps Team

José Paulo Leal, CLI – Porto Contest Systems

Michael Levin, ICPC Live – Analyst

Yakov Lyskov, ICPC Live – Video

Orlando Madrigal, UPE Secretary – ICPC
Registration

Shahriar Manzoor, World Finals Judge

Dmitry Matov, ICPC Challenge Team

Susan McNealy Minor, ICPC Volunteer

Mike Mirzayanov, ICPC Challenge Team

Max Negin, ICPCNews – Video Producer

Fredrik Niemelä, Contest System Director; ICPC
Live – Commentator

Stein Norheim, ICPC Live Graphics

Dennis O’Neal, ICPC HQ

Stanislav Pak, ICPC Live Analyst

Jo Perry, Director of Judging
Jo Ann Pevoto, ICPC Volunteer – Proofing
Charles Piland, ICPCNews Photographer
Yuriy Pisarchik, ICPC Live – Analyst
Alexander Polonik, ICPC Live – Video
Jeffrey Popyack, UPE – ICPC Registration
Marsha Poucher, ICPC Manager
William B. Poucher, ICPC Executive Director
Petr Praus, ICPC HQ Global Services
Mikael Renström, ICPC Guest Services Director
Maddy Renström, ICPC Guest Services Assistant
Miguel Revilla, CLI – ICPC On-line Judging
Miguel A. Revilla, CLI – ICPC Problem Archivist
Bob Roggio, UPE – ICPC Registration
Aleksey Ropan, ICPC Live – Analyst
Matthias Ruhl, World Finals Judge
Cindy Ryan, ACM Associate Director of Membership
Roger Sandholm, ICPC Live
Maxim Shipko, ICPC Challenge
Fernando Silva, CLI – Porto Contest Systems
Roman Smetana, ICPC HQ Global Services
Bob Smith, ICPCNews Photographer
Sergey Sobol, ICPC Live – Analyst
Pehr Söderman, Contest System
Greg Speegle, ICPC HQ Staff
Bjarne Stroustrup, UPE Abacus Award
Amanda Sturgill, ICPCNews Director
David Sturgill, ICPC Challenge Director
Patrick Sweitzer, SysOps Team
Aleksey Tolstikov, ICPC Live – Analyst
Nicole Triche, ICPCNews Video
Cheryl Tucker, ICPC Registrar Assistant
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Breanna Villani, ICPCNews Videographer
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Gennadii Desiatkov, Europe NEERC QF – Organizer

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Trairat Chatkeaw, Phuket World Finals – Committee Advisor
Amarin Deemagarn, Phuket World Finals – Committee Member
Thanate Khaorapapong, Phuket World Finals – Committee Member
Chanwadee Limsakul, Phuket World Finals – Committee Member
Chusak Limsakul, Phuket World Finals – Committee Chairman
Seksun Suwanmanee, Phuket World Finals – Committee Member

Kochi

Anand Shenoy, Asia Amritapuri – Associate Director
Karen Moawad, Asia Amritapuri Contest – Committee Member
Krishnashree Achuthan, Asia Amritapuri Contest – Committee Member

Yekaterinburg

Magaz Asanov, Yekaterinburg World Finals – Committee Member, Quarterfinals Director
Irina Bogdanovich, Yekaterinburg World Finals – Committee Member
Dmitry Bugrov, Yekaterinburg World Finals – Committee Deputy Chair
Konstantin Bugrov, Yekaterinburg World Finals – Committee Member
Alexey Fayustov, Yekaterinburg World Finals – Committee Member
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Alexey Lakhtin, Yekaterinburg World Finals – Committee Member
Irina Polyakova, Yekaterinburg World Finals – Committee Member
Mikhail Rubinchik, Yekaterinburg World Finals – Committee Member
Alexey Safronov, Yekaterinburg World Finals – Committee Member
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Opening Ceremony Music

International symphony orchestra Capella “**Taurida**”

The Capella “Taurida” is a creative community of independent musical bands, consisting of the International Symphony Orchestra, the St. Petersburg Voices Youth Chamber Choir, the Russian Horn Orchestra and the Soloists of Catherine the Great baroque music ensemble. The Capella “Taurida” was initiated in the glorious years of the reign of Empress Catherine the Great by her confidant and close associate Prince Grigory Potyomkin to perform at all important festivities of the Imperial Court of Russia.



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2013 ACM ICPC World Finals

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