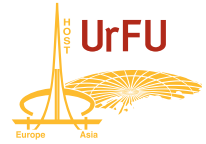




ICPC 2014 World Finals Ekaterinburg  
**acm** International Collegiate  
Programming Contest



event  
sponsor



ICPC FACT SHEET – 4<sup>th</sup> Release – 24 February 2014

**The 38<sup>th</sup> Annual World Finals of the  
ACM International Collegiate Programming Contest (ICPC)  
sponsored by IBM**

**hosted by Ural Federal University  
in Ekaterinburg, Russia, 22-26 June 2014**

**About the Contest** – <http://www.acmicpc.org>, also <http://icpc.baylor.edu>

The ACM International Collegiate Programming Contest (ICPC) is the premiere global programming competition conducted by and for the world's universities. The competition operates under the auspices of ACM, is sponsored by IBM, and is headquartered at Baylor University. For nearly four decades, the ICPC has grown to be a game-changing global competitive educational program that has raised aspirations and performance of generations of the world's problem solvers in the computing sciences and engineering.

Teams of three students represent their universities in multiple levels of regional competition. Volunteer coaches prepare their teams with intense training and instruction in algorithms, programming, and teamwork strategy. Several ICPC universities and ICPC volunteers provide online judging systems to all free of charge. Top teams from regional competition advance to the final round. This year's regional competitions advanced 122 teams to the World Championship round - the 2014 ACM-ICPC World Finals sponsored by IBM and hosted by Ural Federal University – which will be conducted on 25 June 2014 in Ekaterinburg, Russia.

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

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

Since IBM became sponsor in 1997, ICPC participation has increased by more than 1200%. This past year, ICPC participation included 32,043 of the finest students and faculty in computing disciplines from 2,286 universities from 94 countries on six continents.

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

The annual event is comprised of several levels of competition:

- *Local Contests* – Universities choose teams or hold local contests to select one or more teams to represent them at the next level of competition. Selection takes place from a field of over 300,000 students in computing disciplines worldwide.
- *Regional Contests* (September to December 2013) – This year 32,043 contestants from 2,286 universities in 94 countries on six continents competing at over 300 sites to advance to the World Finals. A record 39,877 students and 5,138 coaches competed in ICPC and ICPC-assisted competition this year. This year set new records in participation.
- *World Finals* (22-26 June 2014, Ekaterinburg, Russia) – Hosted by Ural Federal University, one hundred and twenty-two (122) world finalist teams will compete for awards, prizes and bragging rights. These teams represent the best of the great universities on six continents - the cream of the crop.

### ***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.

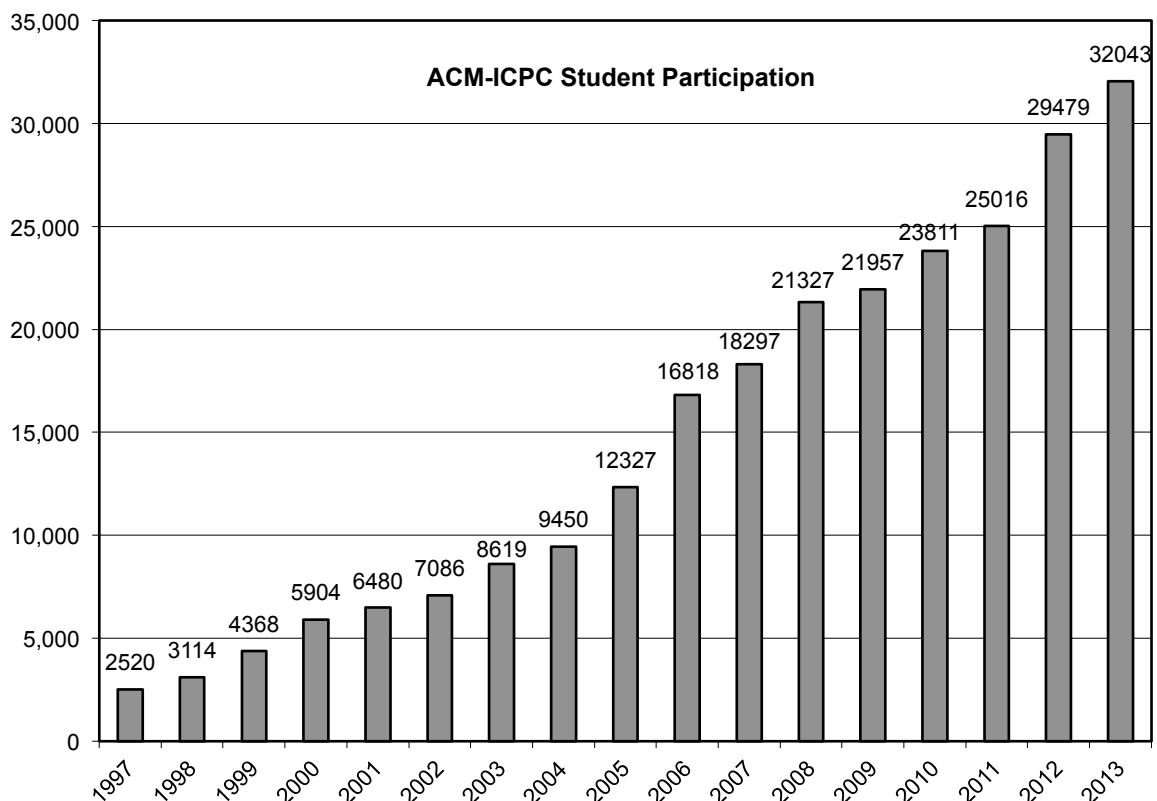
To learn more about the ICPC, please visit <http://icpc.baylor.edu> or <http://acmicpc.org>.

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.

### ***Contest Growth***

ACM, IBM, UPE, and Baylor University are thrilled that the contest continues to attract the best and brightest students from around the world. This past year 32,043 contestants from 2,286 universities in 94 countries competed in regional competitions at over 300 sites worldwide. Since the beginning of IBM’s sponsorship in 1997, participation has increased more than 1200%. For more information on previous contests, and last year’s final standings and problem sets, please see <http://icpc.baylor.edu>. Growth continues.



### ***World Finals 2014 hosted by Ural Federal University – the final round following the 2013 Regionals***

One hundred and twenty teams from regional contests servicing universities worldwide will advance to the World Finals to be held in Ekaterinburg, Russia, 22-26 June 2014. The World Finals is hosted by Ural Federal University. Urfu has hosted regional contests for over 15 years. Support includes the governor of the Sverdlovsk Oblast, the City of Ekaterinburg, and host partner SKB Kontur who will broadcast coverage.

Recent medal winners in order of finish are:

- 2013 Gold: St. Petersburg National Research University ITMO (Russia)  
Shanghai Jiao Tong University (China)  
The University of Tokyo (Japan)  
National Taiwan University (Taiwan)
- 2012 Gold: St. Petersburg National Research University ITMO (Russia)  
University of Warsaw (Poland)  
Moscow Institute of Physics & Technology (Russia)  
Shanghai Jiao Tong University (China)
- 2011 Gold: Zhejiang University (China)  
University of Michigan at Ann Arbor (U. S. A.)  
Tsinghua University (China)  
St. Petersburg State University (Russia)
- 2010 Gold: Shanghai Jiao Tong University (China)  
Moscow State University (Russia)  
National Taiwan University (Taiwan)  
Taras Shevchenko Kiev National University (Ukraine)
- 2009 Gold: St. Petersburg National Research University ITMO (Russia)  
Tsinghua University (China)  
St. Petersburg State University (Russia)  
Saratov State University (Russia)

#### ***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 Cloud Computing; Business Analytics; Mobile Computing; Smarter Commerce and Social Business. For more information, visit <http://www.ibm.com/software>.

***IBM's Commitment***

IBM's sponsorship commitment to the ACM International Collegiate Programming Contest is part of a company-wide effort to advance the next generation of technology leaders and problem solvers who have combined skills of computing science and business management. For more information, visit <http://www.ibm.com/university>.

***Ural Federal University Commitment***

Ural Federal University (UrFU) has a historical commitment to excellence in problem solving. Having championed the ICPC throughout the central region of Russian Federation and surrounding countries, UrFU has frequently placed teams in the World Finals with three winning bronze medals. Each year, UrFU hosts the Ural Open Championship that attracts the finest teams from Russia, Poland, China, Kazakhstan, Belarus, and Mongolia. UrFU is one of the leading scientific centers in Russia. For more information, visit <http://urfu.ru/en/home/>.

***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>.

## 2014 World Finalists – 122 teams

### Africa and the Middle East

Alexandria University - Faculty of Engineering <a href="#">[URL]</a> Team name: ftw	American University of Beirut <a href="#">[URL]</a> Team name: Labneh
Cairo University - Faculty of Computers and Information <a href="#">[URL]</a> Team name: Bugs Factory	German University in Cairo <a href="#">[URL]</a> Team name: ++Neutrinos
Princess Sumaya University for Technology <a href="#">[URL]</a> Team name: Need For Speed	Tishreen University <a href="#">[URL]</a> Team name: Titans
University of Cape Town <a href="#">[URL]</a> Team name: If Cats Programmed Computers	

### Asia

Amrita University <a href="#">[URL]</a> Team name: Amritans	Anil Neerukonda Institute of Technology and Sciences <a href="#">[URL]</a> Team name: randomly
Bangladesh University of Engineering and Technology <a href="#">[URL]</a> Team name: [MAX+7]	Beijing Institute of Technology <a href="#">[URL]</a> Team name: BIT_laser
Beijing Normal University <a href="#">[URL]</a> Team name: latte	Bina Nusantara University <a href="#">[URL]</a> Team name: Panda Shu
Delhi Technological University <a href="#">[URL]</a> Team name: moduli	FPT University <a href="#">[URL]</a> Team name: Runes of Champion
Fudan University <a href="#">[URL]</a> Team name: Angstrom	Fuzhou University <a href="#">[URL]</a> Team name: Hallucination
Ho Chi Minh City University of Science <a href="#">[URL]</a> Team name: HCMUS-Acceptors	Hunan University <a href="#">[URL]</a> Team name: ACgege
Indian Institute of Technology - Bombay <a href="#">[URL]</a> Team name: Dracarys	Indian Institute of Technology - Indore <a href="#">[URL]</a> Team name: Paradigm Shift
Indian Institute of Technology - Madras <a href="#">[URL]</a> Team name: GreenLeafPluckers	Indian Institute of Technology - Roorkee <a href="#">[URL]</a> Team name: 3Spades
International Institute of Information Technology - Hyderabad <a href="#">[URL]</a> Team name: illusion	Jilin University <a href="#">[URL]</a> Team name: AlarmClockMemo
Korea University <a href="#">[URL]</a> Team name: Balloonphilia	Kyoto University <a href="#">[URL]</a> Team name: YellowYell
National Sun-Yat-Sen University <a href="#">[URL]</a> Team name: TCQQ	National Taiwan University <a href="#">[URL]</a> Team name: TwT514
National University of Singapore <a href="#">[URL]</a> Team name: ThanQ	Peking University <a href="#">[URL]</a> Team name: Obsidian
Renmin University of China <a href="#">[URL]</a> Team name: kingbase_Acme	Shahjalal University of Science and Technology <a href="#">[URL]</a> Team name: SUST_Attoprottoyee
Shanghai Jiao Tong University <a href="#">[URL]</a> Team name: Secret;Weapon	Sharif University of Technology <a href="#">[URL]</a> Team name: Shir-e-Aab
South China Agricultural University <a href="#">[URL]</a> Team name: SCAU_Bear Kids	South China University of Technology <a href="#">[URL]</a> Team name: SCUT_Yamiedie
SungKyunKwan University <a href="#">[URL]</a> Team name: JunheeIsCute>_<	The Chinese University of Hong Kong <a href="#">[URL]</a> Team name: Xpanders
The University of Tokyo <a href="#">[URL]</a> Team name: wakaba	Tokyo Institute of Technology <a href="#">[URL]</a> Team name: binding.pry

Tsinghua University <a href="#">[URL]</a> Team name: NowOrNever	University of Electronic Science and Technology of China <a href="#">[URL]</a> Team name: UESTC_Aspidochelone
University of Indonesia <a href="#">[URL]</a> Team name: +1 2.0	University of Sciences DPR Korea <a href="#">[URL]</a> Team name: RedStar1
University of Tsukuba <a href="#">[URL]</a> Team name: pipe.txt	Zhejiang University <a href="#">[URL]</a> Team name: eternal reality
Zhejiang University of Technology <a href="#">[URL]</a> Team name: Keine	Zhongshan (Sun Yat-sen) University <a href="#">[URL]</a> Team name: SYSU_ArthasMenethil

## Europe

Belarusian State University <a href="#">[URL]</a> Team name: Belarusian SU #1	Comenius University <a href="#">[URL]</a> Team name: Docikáme d'alej
Delft University of Technology <a href="#">[URL]</a> Team name: geen.opdracht5	ETH Zürich <a href="#">[URL]</a> Team name: ETH + \_ (ツ) \_ /
International IT University <a href="#">[URL]</a> Team name: IITU 1	Izhevsk State Technical University <a href="#">[URL]</a> Team name: Izhevsk STU: CynepMyTaHTbl
Jagiellonian University in Krakow <a href="#">[URL]</a> Team name: Jagiellonian	Kaunas University of Technology <a href="#">[URL]</a> Team name: KTU1
Moscow Institute of Physics & Technology <a href="#">[URL]</a> Team name: The Sun	Moscow State University <a href="#">[URL]</a> Team name: Moscow SU Tapirs
Moscow State University - Tashkent <a href="#">[URL]</a> Team name: MSU Tashkent 1	National Research University Higher School of Economics <a href="#">[URL]</a> Team name: Viral Team
National University of Science and Technology "MISIS" <a href="#">[URL]</a> Team name: MISiS	Nazarbayev University <a href="#">[URL]</a> Team name: NU 1
Novosibirsk State University <a href="#">[URL]</a> Team name: Novosibirsk SU 1	Odessa National Mechnikov University <a href="#">[URL]</a> Team name: ONU 1 2/3
Petrozavodsk State University <a href="#">[URL]</a> Team name: Petrozavodsk SU	Saratov State University <a href="#">[URL]</a> Team name: Saratov SU 1
St. Petersburg National Research University of IT, Mechanics and Optics <a href="#">[URL]</a> Team name: SPb NRU ITMO 01	St. Petersburg State University <a href="#">[URL]</a> Team name: SPb SU 4
Taras Shevchenko Kiev National University <a href="#">[URL]</a> Team name: BZFlags	Taurida V.I. Vernadsky National University <a href="#">[URL]</a> Team name: Phantom Menace
Universitaet des Saarlandes <a href="#">[URL]</a> Team name: COMEFROM Saar	Universitat Politècnica de Catalunya <a href="#">[URL]</a> Team name: Max-troll Min-nut
University of Bucharest <a href="#">[URL]</a> Team name: Unibuc_BigDawgs	University of Cambridge <a href="#">[URL]</a> Team name: Beuler
University of Latvia <a href="#">[URL]</a> Team name: unusual	University of Warsaw <a href="#">[URL]</a> Team name: Warsaw Eagles 2014
University of Wroclaw <a href="#">[URL]</a> Team name: UWrl	University of Zagreb <a href="#">[URL]</a> Team name: Zagreb
Ural Federal University <a href="#">[URL]</a> Team name: Ural FU 1	V.N. Karazin Kharkiv National University <a href="#">[URL]</a> Team name: SobolevTeam
Vinnitsia National Technical University <a href="#">[URL]</a> Team name: VNTU_[wRabbits]	

## Latin America

Escuela Superior De Computo Instituto Politecnico Nacional <a href="#">[URL]</a> Team name: Hurones Pwneadores	Instituto Militar de Engenharia <a href="#">[URL]</a> Team name: Timelino
Instituto Tecnológico de Santo Domingo <a href="#">[URL]</a> Team name: In yo' face!	Pontificia Universidad Católica del Perú <a href="#">[URL]</a> Team name: Los Chobys del Averno
Universidad Autónoma de Aguascalientes <a href="#">[URL]</a> Team name: Peludos	Universidad Católica San Pablo <a href="#">[URL]</a> Team name: Bugs, Lucas y Coyote
Universidad Nacional de Colombia - Bogotá <a href="#">[URL]</a> Team name: UNALgorithm	Universidad Panamericana Campus Bonaterra <a href="#">[URL]</a> Team name: Los Chidory
Universidad Tecnologica de Pereira <a href="#">[URL]</a> Team name: UTP 0x7DD	Universidad de Buenos Aires - FCEN <a href="#">[URL]</a> Team name: Melarita
Universidad de Chile <a href="#">[URL]</a> Team name: Alonso y los Strawberries	Universidad de Oriente - Sede Antonio Maceo <a href="#">[URL]</a> Team name: Napster
Universidade Estadual de Campinas <a href="#">[URL]</a> Team name: I Triple Dare You	Universidade Federal de Campina Grande <a href="#">[URL]</a> Team name: Calma pessoal, calma...
Universidade Federal de Pernambuco <a href="#">[URL]</a> Team name: Não é só pelos 20 minutos!	Universidade de São Paulo <a href="#">[URL]</a> Team name: Bitelo
Universidade de São Paulo - Campus de São Carlos <a href="#">[URL]</a> Team name: Ntemtempabobagi	

## North America

Carnegie Mellon University <a href="#">[URL]</a> Team name: CMU1	Iowa State University <a href="#">[URL]</a> Team name: Autobots
Massachusetts Institute of Technology <a href="#">[URL]</a> Team name: MIT1	Michigan Technological University <a href="#">[URL]</a> Team name: MTU Magenta
New York University <a href="#">[URL]</a> Team name: Bagel Flavored Debugging	Northwestern University <a href="#">[URL]</a> Team name: Wildcats
Stanford University <a href="#">[URL]</a> Team name: Stanford Cardinal	The University of Texas at Brownsville <a href="#">[URL]</a> Team name: Ocelot
University of California Irvine <a href="#">[URL]</a> Team name: UCI constructors	University of California at Berkeley <a href="#">[URL]</a> Team name: Berkeley Blue
University of Central Florida <a href="#">[URL]</a> Team name: UCF Knights	University of Chicago <a href="#">[URL]</a> Team name: Conjurers of Cheap Tricks
University of Lethbridge <a href="#">[URL]</a> Team name: Pronghorns	University of Maryland <a href="#">[URL]</a> Team name: UMD TERPS
University of Michigan at Ann Arbor <a href="#">[URL]</a> Team name: Victors	University of Southern California <a href="#">[URL]</a> Team name: USC Trojans
University of Toronto <a href="#">[URL]</a> Team name: University of Toronto Blue	University of Virginia <a href="#">[URL]</a> Team name: foo
University of Wisconsin - Madison <a href="#">[URL]</a> Team name: Connecting the Dots is NP-hard	Vanderbilt University <a href="#">[URL]</a> Team name: Vanderbilt_1
Virginia Tech <a href="#">[URL]</a> Team name: Backspace	

## South Pacific

The University of Waikato <a href="#">[URL]</a> Team name: Trigraph	University of New South Wales <a href="#">[URL]</a> Team name: UNSW1
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