



ICPC FACT SHEET – 20 February 2015

The 39th Annual World Finals of the ACM International Collegiate Programming Contest (ICPC) sponsored by IBM

hosted by Mohamed V University, Al Akhawayn University,
Mundiapolis University, and The Moroccan ACM

in Marrakech, Morocco, 16–21 May 2015, at the Palmeraie Resort

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 128 teams to the World Championship round - the 2015 ACM-ICPC World Finals sponsored by IBM and hosted by Mohamed V University, Al Akhawayn University, Mundiapolis University, and The Moroccan ACM – which will be conducted on 20 May 2015 in Marrakech, Morocco, at the Palmeraie Resort.

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

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

Since IBM became sponsor in 1997, ICPC participation has increased by more than 1500%. This past year, ICPC participation included 38,160 of the finest students and faculty in computing disciplines from 2,534 universities from 101 countries on six continents.

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

The annual event is comprised of several levels of competition:

- Local Contests – Universities choose teams or hold local contests to select one or more teams to represent them at the next level of competition. Selection takes place from a field of over 300,000 students in computing disciplines worldwide.
- Regional Contests (September to December 2014) – This year 38,160 contestants from 2,534 universities in 101 countries on six continents competing at over 459 sites to advance to the World Finals. A record 42,229 students and 4,831 coaches competed in ICPC and ICPC-assisted competition this year. This year set new records in participation.

- World Finals (16-21 May 2015, Marrakech, Morocco) – Hosted by Mohamed V University (UM5), Al Akhawayn University (AUU), Mundiapolis University (MU), and The Moroccan Association for Computing Machinery (MACM), one hundred and twenty-eight (128) world finalist teams will compete for awards, prizes and bragging rights. These teams represent the best of the great universities on six continents - the cream of the crop.

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.

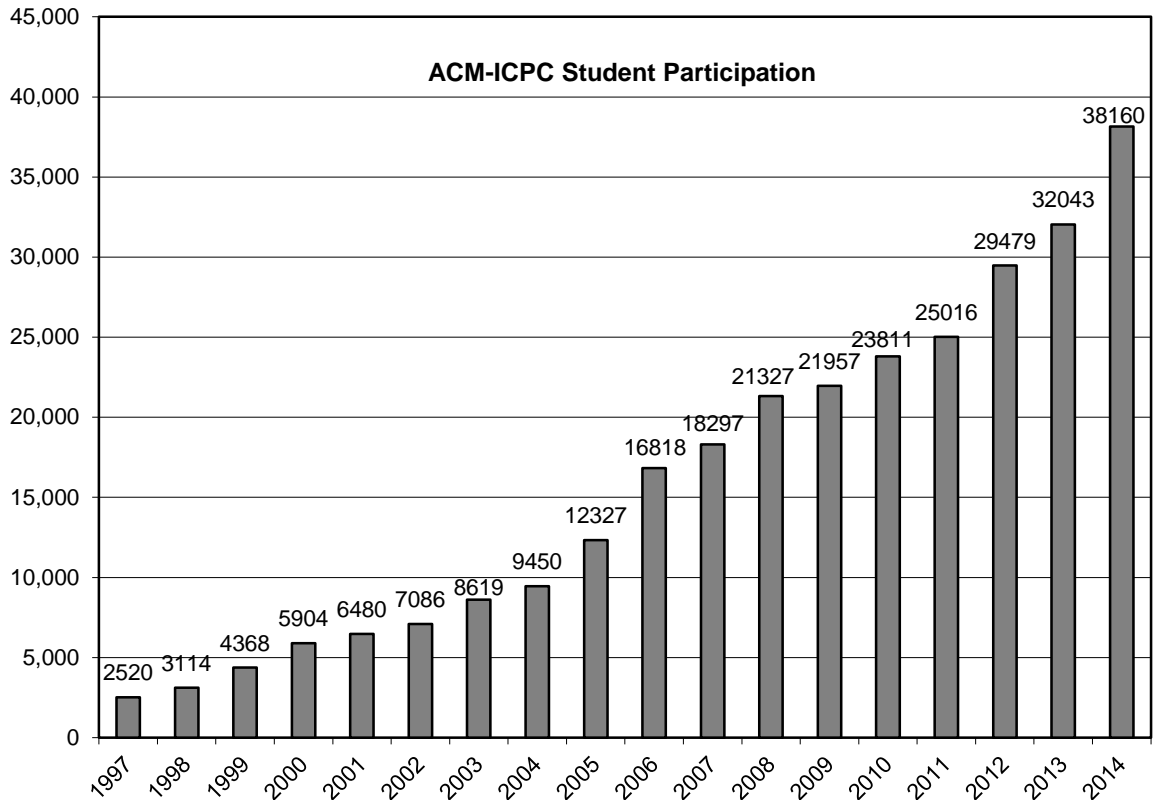
To learn more about the ICPC, please visit <http://icpc.baylor.edu> or acmicpc.org.

For full coverage of the World Finals including social media, photos, video, live coverage, and live scoreboard go to ICPCNews, icpcnews.com.

Visit the ICPC podcast series at 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 38,160 contestants from 2,534 universities in 101 countries competed in regional competitions at over 459 sites worldwide. Since the beginning of IBM’s sponsorship in 1997, participation has increased more than 1500%. For more information on previous contests, and last year’s final standings and problem sets, please see icpc.baylor.edu. Growth continues.



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

One hundred and twenty-eight teams from regional contests servicing universities worldwide will advance to the World Finals to be held at the Palmeraie Resort, Marrakech, Morocco, 16-21 May 2015. The World Finals is hosted by Mohamed V University, Al Akhawayn University, Mundiapolis University, and The Moroccan ACM. Morocco hosted the very first regional contest in North Africa and the Middle East in 1997.

Recent medal winners in order of finish are:

- 2014 Gold: St. Petersburg State University (Russia)
Moscow State University (Russia)
Peking University (China)
National Taiwan University (Taiwan)
- 2013 Gold: St. Petersburg National Research University ITMO (Russia)
Shanghai Jiao Tong University (China)
The University of Tokyo (Japan)
National Taiwan University (Taiwan)
- 2012 Gold: St. Petersburg National Research University ITMO (Russia)
University of Warsaw (Poland)
Moscow Institute of Physics & Technology (Russia)
Shanghai Jiao Tong University (China)
- 2011 Gold: Zhejiang University (China)
University of Michigan at Ann Arbor (USA)
Tsinghua University (China)
St. Petersburg State University (Russia)
- 2010 Gold: Shanghai Jiao Tong University (China)
Moscow State University (Russia)
National Taiwan University (Taiwan)
Taras Shevchenko Kiev National University (Ukraine)

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 www.acm.org.

About IBM

IBM is a globally integrated technology and consulting company. With operations in more than 170 countries, IBM attracts and retains some of the world's most talented people to help solve problems and provide an edge for businesses, governments and non-profits. Innovation is at the core of IBM's strategy. The company develops and sells software and systems hardware and a broad range of infrastructure, focusing on growth initiatives such as cloud computing, big data and analytics, mobile, social business and security. For more information, visit www.ibm.com.

IBM's Commitment

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

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 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: upe.acm.org.

2015 World Finalists – 128 teams

Africa and the Middle East

Al Akhawayn University [URL] Team name: Ifrane	Arab Academy for Science and Technology (Alexandria) [URL] Team name: _CPC For Dummies!
Cairo University - Faculty of Computers and Information [URL] Team name: Amateur Pros	ENSA Marrakech, UCA [URL] Team name: while(true);
Faculty of Computer and Information Sciences, Ain Shams University [URL] Team name: Tau	Faculty of Engineering, Ain Shams University [URL] Team name: FortyTwo
German University in Cairo [URL] Team name: Bool Shift!	The American University in Cairo [URL] Team name: The A-Team
Tishreen University [URL] Team name: MC^2	University of Cape Town [URL] Team name: I Can't Pronounce Catachthonic

Asia

Amrita School of Engineering, Kollam [URL] Team name: Complexity_Simplified	Beihang University [URL] Team name: TheWaySoFar
Beijing Institute of Technology [URL] Team name: BIT illusion	Beijing Jiaotong University [URL] Team name: Hyacinth
Beijing Normal University [URL] Team name: deadline	Fudan University [URL] Team name: KuroRekishi
Fuzhou University [URL] Team name: Monologue	Hangzhou Dianzi University [URL] Team name: HDU-D-Ark
Huazhong University of Science & Technology [URL] Team name: Skyline	Indian Institute of Technology - Bombay [URL] Team name: codetemplars
Indian Institute of Technology - Delhi [URL] Team name: angle	Indian Institute of Technology - Kharagpur [URL] Team name: BitBees
Indian Institute of Technology - Madras [URL] Team name: shockers	Indian Institute of Technology - Roorkee [URL] Team name: 3Spades
International Institute of Information Technology - Hyderabad [URL] Team name: Believe	Jahangirnagar University [URL] Team name: JU_Assassins
Jilin University [URL] Team name: Major Battle	KAIST [URL] Team name: OriGoGi
Korea University [URL] Team name: Team X	Kyoto University [URL] Team name: Colorful Jumbo Chicken
Nanyang Technological University [URL] Team name: AAA	National Taiwan University [URL] Team name: 0 1
National University of Defense Technology [URL] Team name: ALPC_NeverFarewell	National University of Singapore [URL] Team name: ThanQ+
Peking University [URL] Team name: Valkyrie	Seoul National University [URL] Team name: cpp
Shahid Beheshti University [URL] Team name: Dark Side of Trianguli	Shahjalal University of Science and Technology [URL] Team name: SUST_DownToTheWire
Shanghai Jiao Tong University [URL] Team name: Dracarys	Shanghai University [URL] Team name: Final Battle
Sharif University of Technology [URL] Team name: Saboon	South China Agricultural University [URL] Team name: aabbxx
South China University of Technology [URL] Team name: SCUT_Low_Profile	The University of Tokyo [URL] Team name: !#\$%&()*+-./:;<=>?@[\\]^_`{ }~
Tsinghua University [URL] Team name: ThinkingBear	University of Electronic Science and Technology of China [URL] Team name: UESTC MonaLisa
University of Engineering and Technology - VNU [URL] Team name: Java#	University of Indonesia [URL] Team name: BerinGAS
University of Science and Technology of China [URL] Team name: FuQiang	University of Tehran [URL] Team name: Odd Factory
University of Tsukuba [URL] Team name: nekonyaso	Yazd University of Iran [URL] Team name: Baadgir
Zhejiang SCI-TECH University [URL] Team name: shenshanlaoyao	Zhejiang University [URL] Team name: Perditio

Europe

Belarusian State Economic University [URL] Team name: 1C++	Belarusian State University [URL] Team name: BelarusianSU
Belarus State University of Informatics and Radioelectronics [URL] Team name: Belarusian SUIR 2	Charles University in Prague [URL] Team name: MFF
ETH Zürich [URL] Team name: Sub-ETHa	Free University of Tbilisi [URL] Team name: Tbilisi FreeUni
Friedrich-Alexander-University Erlangen-Nuremberg [URL] Team name: Old Fafhioned Typefetting	Jagiellonian University in Krakow [URL] Team name: Jagiellonian
Kazan (Volga Region) Federal University [URL] Team name: Kazan FU #1	KTH - Royal Institute of Technology [URL] Team name: Omogen Heap
Lviv National University [URL] Team name: LNU Penguins	Moscow Aviation Institute [URL] Team name: MAI #9
Moscow Institute of Physics & Technology [URL] Team name: The Moon	Moscow State University [URL] Team name: Moscow SU Tapirs
National Research University Higher School of Economics [URL] Team name: #1	National University of Science and Technology "MISIS" [URL] Team name: MISiS-1
Nazarbayev University [URL] Team name: NU 1	Odessa National Mechnikov University [URL] Team name: ONU 1 2/3
Saint Petersburg Academic University – Nanotechnology Research and Education Centre RAS [URL] Team name: SPb AU 1: Nibbler	Saratov State University [URL] Team name: Saratov SU 2
St. Petersburg National Research University of IT, Mechanics and Optics [URL] Team name: SPb ITMO University 1	St. Petersburg State University [URL] Team name: SPb SU is a ball
Taras Shevchenko Kiev National University [URL] Team name: Flawless	Universitat Politècnica de Catalunya [URL] Team name: Enguany tampoc?
University of Bucharest [URL] Team name: Unibuc Infoarena Coders	University of Copenhagen [URL] Team name: Lambdabamserne
University of Warsaw [URL] Team name: Warsaw Eagles 2015	University of Wrocław [URL] Team name: UWrl
University of Zagreb [URL] Team name: Zagreb	

Latin America

Escuela Superior De Computo Instituto Politecnico Nacional [URL] Team name: Escoolers	Facultad de Ciencias Exactas-Universidad Nacional de Rosario [URL] Team name: Caloventor en Dos
Federal University of Minas Gerais [URL] Team name: Literally Tourists	ITESM Campus Monterrey [URL] Team name: Locos
Universidad Autónoma de Aguascalientes [URL] Team name: Peludos	Universidad Católica San Pablo [URL] Team name: Codesumare
Universidad de Buenos Aires - FCEN [URL] Team name: Melarita	Universidad de La Habana [URL] Team name: UH++
Universidad de los Andes, Colombia [URL] Team name: Programators Mark II	Universidad de Oriente - Sede Antonio Maceo [URL] Team name: Napster
Universidade de São Paulo [URL] Team name: I am Root	Universidade Estadual de Campinas [URL] Team name: Rua do sabão
Universidade Federal de Campina Grande [URL] Team name: Manoel borboleta e miguxos	Universidade Federal do Rio de Janeiro [URL] Team name: Guns N' Codes
Universidad Nacional de Colombia - Bogotá [URL] Team name: UNRasTasTas	Universidad Privada de Santa Cruz de la Sierra [URL] Team name: 2ez4MySWAG
Universidad Simón Bolívar [URL] Team name: Team Phoenix	

North America

Carleton College [URL] Team name: Turing Morocco	Carnegie Mellon University [URL] Team name: XP-Developer
Cornell University [URL] Team name: Cornell huehue	Georgia Institute of Technology [URL] Team name: Yellow Jackets
Harvard University [URL] Team name: Harvard	Iowa State University [URL] Team name: Run Length Encoding
Massachusetts Institute of Technology [URL] Team name: MIT2	Messiah College [URL] Team name: Falcons 1
Northwestern University [URL] Team name: Mildcat	Princeton University [URL] Team name: Schneidartha
Rice University [URL] Team name: Rice Gray	Stanford University [URL] Team name: Stanford White
University of Calgary [URL] Team name: U Calgary	University of California at Berkeley [URL] Team name: Berkeley Blue
University of California Los Angeles [URL] Team name: UCLA Blue	University of Central Florida [URL] Team name: UCF Knights
University of Chicago [URL] Team name: Conjurers of Cheap Tricks	University of Illinois at Urbana-Champaign [URL] Team name: Quadrature Rules
University of Maryland [URL] Team name: University of Maryland	University of Michigan at Ann Arbor [URL] Team name: Victors
University of Minnesota - Twin Cities [URL] Team name: Benchwarmers	University of Southern California [URL] Team name: Trojans
University of Waterloo [URL] Team name: Waterloo Black	University of Wisconsin - Madison [URL] Team name: Do you even PSPACE?
Virginia Tech [URL] Team name: The Traveling Salesmen	

South Pacific

The Australian National University [URL] Team name: ANU-Red	The University of Western Australia [URL] Team name: mikelback
University of New South Wales [URL] Team name: YujOHappyBot	