FACT SHEET – 8th Edition – 7 January 2010

The ACM International Collegiate Programming Contest sponsored by IBM and hosted by HEU - Harbin Engineering University

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, the contest has increased over 800%. Participation has grown to involve twenty-two thousand of the finest students and faculty in computing disciplines from over 1,931 universities from 82 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 November 2009) – This past year, nearly 22,000 contestants from 1,931 universities from 82 countries on six continents competed at 242 sites.

- **World Finals** (February 1-6, 2010, Harbin, China) – One hundred three (103) world finalist teams will compete for awards, prizes and bragging rights in Harbin hosted by Harbin Engineering University. 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://acmicpc.org or http://icpc.baylor.edu/. 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 with nearly 22,000 contestants from 1,931 universities in 82 countries competing this year. Since the beginning of IBM’s sponsorship in 1997, participation has increased over 800%. For more information on previous contests, and last year’s final standings and problem sets, please see http://icpc.baylor.edu/ or http://www.ibm.com/university/acmcontest/.

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**World Finals 2010 – the final round for the 2009 Regionals**

One hundred three (103) teams from regional contests servicing universities worldwide will qualify to advance to the World Finals to be held in Harbin, China, February 1-6, 2010. The World Finals is hosted by Harbin Engineering University. Recent medal winners in order of finish are:

- **2009 Gold:** St. Petersburg University of Information Technology, Mechanics & Optics (Russia)
  Tsinghua University (China)
  St. Petersburg State University (Russia)
  Saratov State University (Russia)

- **2008 Gold:** St. Petersburg University of Information Technology, Mechanics & Optics (Russia)
  Massachusetts Institute of Technology (U. S. A.)
  Izhevsk State Technical University (Russia)
  Lviv National University (Ukraine)

- **2007 Gold:** Warsaw University (Poland)
  Tsinghua University (China)
  St. Petersburg University of Information Technology, Mechanics & Optics (Russia)
  Massachusetts Institute of Technology (U. S. A.)

**About ACM**

The Association for Computing Machinery (ACM) is a major force in advancing the skills of information technology professionals and students. ACM serves its global membership of 80,000 by delivering cutting edge technical information and transferring ideas from theory to practice. ACM hosts the computing industry’s leading Portal to Computing Literature. With its journals and magazines, special interest groups, conferences,
workshops, electronic forums, Career Resource Centre and Professional Development Centre, ACM is a primary resource to the information technology field. For more information, see http://www.acm.org.

**About IBM**
IBM believes intelligence will change more aspects of human life, including the way people live, work, and govern themselves; the way services are ordered and delivered; and the way air, water and forests are protected. The world is already connected economically, technically and socially. However, being connected alone is not sufficient. The world needs new generations of talent, problem solvers and leaders to infuse intelligence into our life such as power grids, transportation, and food safety.

IBM is the world's largest information technology and service provider. IBM has 30,000 software engineers in more than 80 research and development laboratories around the globe, who focus on solving real-world business issues for customers in more than 170 countries. IBM offers software services and dynamic infrastructure for customers to manage their systems, processes and applications across standard platforms. IBM has customers in industries such as telecommunications, utility, retail, public service, health care, education, transportation, finance, insurance, petroleum, manufacturing, etc. IBM explores new services using technology such as Web 2.0, virtualization, social networking, RFID, and cloud computing for new enterprise data centers. 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/

**Harbin Engineering University’s Commitment**
HEU is pleased to host the 2010 World Finals during our International Snow and Ice Festival. From point of arrival, to our finest hotels, to our spacious university campus, or to the Festival, we are committed to provide the finest of hospitalities to the 2010 World Finals. HEU is pleased to host the World Finals at our new library building. For more on HEU, visit http://english.hrbeu.edu.cn/

**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. 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/.
## The 2010 ACM-ICPC World Finals List by Regions (In alphabetical order by region)

### Africa and the Middle East
- Faculty of Computers and Information, Cairo University, Egypt
- The British University in Egypt, Egypt
- American University of Beirut, Lebanon
- University of Cape Town, South Africa

### Asia
- Bangladesh University of Engineering and Technology, Bangladesh
- Beijing Jiaotong University, China
- Beijing University of Posts and Telecommunications, China
- Fudan University, China
- Fuzhou University, China
- Guangdong University of Technology, China
- Hangzhou Dianzi University, China
- Harbin Engineering University, China
- Harbin Institute of Technology, China
- National University of Defense Technology, China
- Peking University, China
- Shanghai Jiaotong University, China
- South China Agricultural University, China
- Southeast University, China
- Tsinghua University, China
- University of Electronic Science and Technology of China, China
- Wuhan University, China
- Xidian University, China
- Zhejiang University, China
- Zhejiang University of Technology, China
- Zhongshan (Sun Yat-sen) University, China
- Chinese University of Hong Kong, Hong Kong
- DJ Sanghvi College of Engineering, India
- International Institute of Information Technology - Hyderabad, India
- National Institute of Technology, Trichy, India
- Amirkabir University of Technology, Iran
- Sharif University of Technology, Iran
- Kyoto University, Japan
- University of Tokyo, Japan
- KAIST, Korea, Republic of
- Seoul National University, Korea, Republic of
- Sogang University, Korea, Republic of
- University of the Philippines - Diliman, Philippines
- National University of Singapore, Singapore
- National Chiao Tung University, Taiwan
- National Taiwan University, Taiwan
- Ho Chi Minh City University of Science, Vietnam
Europe & the Russian Federation

Belarusian State University, Belarus
Friedrich-Alexander-University Erlangen-Nuremberg, Germany
Universitat Politècnica de Catalunya, Spain
University of Helsinki, Finland
École Normale Supérieure ULM, France
University of Warsaw, Poland
University of Wroclaw, Poland
Izhevsk State Technical University, Russian Federation
Moscow State University, Russian Federation
Novosibirsk State University, Russian Federation
Petrozavodsk State University, Russian Federation
Samara State Aerospace University, Russian Federation
Saratov State University, Russian Federation
St. Petersburg State University, Russian Federation
St. Petersburg State University of IT, Mechanics and Optics, Russian Federation
State University - Higher School of Economics, Russian Federation
Ufa State Technical University of Aviation, Russian Federation
Ural State University, Russian Federation
KTH - Royal Institute of Technology, Sweden
National Technical University "Kharkiv Polytechnic Institute", Ukraine
Taras Shevchenko Kiev National University, Ukraine

Latin America

Facultad de Matemática - Astronomía y Física (UNC), Argentina
Universidad de Buenos Aires - FCEN, Argentina
Universidad Nacional de La Plata, Argentina
Institute of Computing - University of Campinas, Brazil
Instituto de Matemática e Estatística da Universidade de São Paulo, Brazil
Instituto Tecnológico de Aeronáutica, Brazil
Pontificia Universidade Catolica do Rio de Janeiro, Brazil
Universidade Federal de Pernambuco, Brazil
Universidade Federal de Santa Catarina, Brazil
Universidade Federal de Sergipe, Brazil
Universidad de los Andes, Colombia
Universidad Central Marta Abreu de las Villas, Cuba
ITESM Campus Queretaro, Mexico
Universidad de Guanajuato, Mexico
Universidad Simón Bolívar, Venezuela
### North America

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