

The ACM INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST sponsored by IBM

FACT SHEET – February 11, 2002

About the Contest

The ACM (Association for Computing Machinery) 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 assist in the development of 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. Headquartered at Baylor University since the 1980s, the contest has expanded into a global network of universities hosting regional competitions that advance teams to the World Finals.

Since IBM became sponsor in 1997, the contest has nearly tripled. Participation has grown to over 3,000 teams involving more than 17,000 of the finest students and faculty in computing disciplines at over 1,300 universities from 67 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 100,000 students in computing disciplines worldwide.
- *Preliminary Contests* – Some teams compete in multi-university preliminary contests that advance teams to Regional Contests.
- *Regional Contests* (September to December) – This year, participation in preliminary and regional contests increased from 2,770 teams to 3,082 teams from 67 countries on six continents. Though the number of regional sites increased from 90 to 94, an additional 200 teams were turned away due to lack of space.
- *World Finals* (March 20-24, 2002 – Honolulu, Hawaii) – Sixty-four World Finalist teams will compete in Honolulu for awards, prizes and bragging rights. These teams represent 64 universities located in 27 countries on six continents.

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.

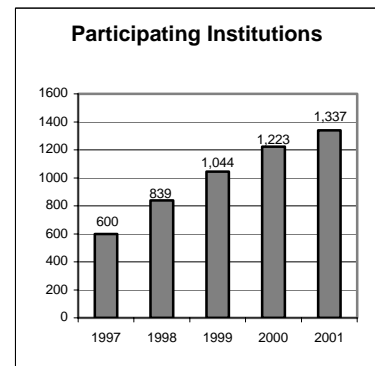
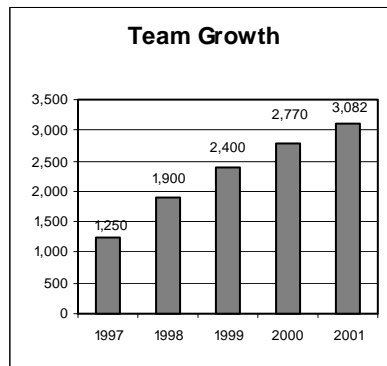
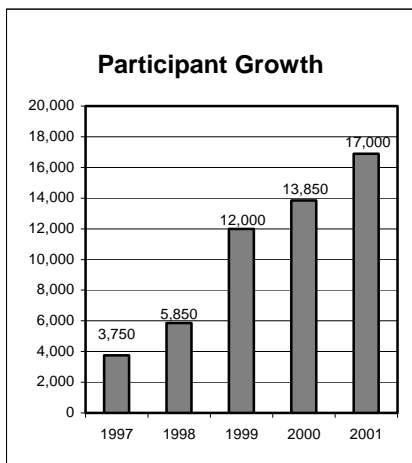
For additional information about the competition, please visit <http://www.acm.org/contest>.

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Contest Growth

ACM and IBM are thrilled that the contest continues to attract the best and brightest students from around the world, growing from 3,750 students in 1997 to more than 17,000 in 2001. Since the beginning of IBM’s sponsorship in 1997, contest participation has more than tripled. For more information on previous contests, and last year’s final standings and problem sets, please see

<http://www.software.ibm.com/acm> or
<http://icpc.baylor.edu/past/>.



World Finals 2002

Sixty-four winning teams from regional contests have qualified for the World Finals, which will be held in Honolulu, Hawaii from March 20-24, 2002.

Recent gold medal winners in order of finish include:

- 2001: St. Petersburg State University (St. Petersburg, Russia)
Virginia Tech (Blacksburg, VA, U.S.A.)
St. Petersburg Institute of Fine Mechanics & Optics (St. Petersburg, Russia)
University of Waterloo (Waterloo, Canada)
- 2000: St. Petersburg State University (St. Petersburg, Russia)
The University of Melbourne (Melbourne, Australia)
The University of Waterloo (Waterloo, Ontario, Canada)
- 1999: The University of Waterloo (Waterloo, Ontario, Canada)
Albert-Ludwigs-Universitat Freiburg (Freiburg, Germany)

St. Petersburg Institute of Fine Mechanics & Optics (St. Petersburg, Russia)
Bucharest University (Bucharest, Romania)
Duke University (Durham, North Carolina, U.S.A.)

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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 75,000 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 world-class journals and magazines, dynamic special interest groups, numerous conferences, workshops, and electronic forums, ACM is a primary resource to the information technology field. For additional information about ACM and the ACM Portal, see www.acm.org.

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 computer scientists. For more information about other IBM college initiatives, please visit the IBM/ACM contest Web site and click on the Student Portal button - <http://www.software.ibm.com/acm>.

IBM is the world's largest information technology company, with 80 years of leadership in helping businesses innovate. IBM software offers the widest range of e-business infrastructure software for all types of computing platforms, allowing customers to take full advantage of the new era of e-business. The fastest way to get more information about IBM software is through the IBM home page at <http://www.ibm.com/software>.

Baylor University's Commitment

Baylor University has been the home of the ICPC since the 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 and brightest student in computer science and engineering in the world. Since its earliest, 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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The 2002 ACM Programming Contest World Finals Roster

as of 3/14/2002 12:05:31 PM Central Time

Africa and the Middle East

Cairo University

Salwa El Gamal, Coach
Ahmed Hamed
Mohamed Abed El-Wahab
Osama Abed El-Hamid

University of the Witwatersrand, Johannesburg

Scott Hazelhurst, Coach
Martin Cook
Paul Cook
Warren Essey

Asia

American International University Bangladesh

Carmen Z. Lamagna, Coach
Adib Hassan Manob
Md. Mahabub Alam
Md. Nurul Amin

Bangladesh University of Engineering and Technology

Mohammad Kaykobad, Coach
Abdullah Al-Mahmood
Md Kamruzzaman
Mushfiqur Rouf

Fudan University

Kuanli Xia, Coach
Qi Liu
Yi Guo
Yongji Zhou

Nanyang Technological University

Edmund Lai, Coach
Li Qing
Yang Song
Zhang Jia Hui

National Taiwan University

Chiou-Shann Fuh, Coach
Heng Ruey Hsu
Kai-min Chung
Kuang-che Wu

Shanghai JiaoTong University

Yong Yu, Coach
Chenxi Lin
Jian Zhou
Jing Lu

The Chinese University of Hong Kong

Irwin King, Coach
Kam Wah Yeung
Man Lam Ho
Yunkai Liu

Tsinghua University

Fan Wang, Coach
Rujia Liu
Yiming Li
Ziqing Mao

Europe and the Russian Federation

Albert Einstein University Ulm

Walter Guttman, Coach
Alexander Neubeck
Axel Blumenstock
Axel Gandy

Charles University Prague

Pavel Topfer, Coach
Josef Zlomek
Pavel Nejedly
Zdenek Dvorak

Moscow State University

Eugeny Pankratiev, Coach
Eugeny Cherepanov
Maxim Babenko
Sergey Chernyshev

Orel State Technical University

Oleg Sokov, Coach
Sergey Chapkin
Sergey Ivanov
Sergey Markov

POLITEHNICA University of Bucharest

Valeriu Iorga, Coach
Andrei Gheorghe
Florin Ghetu
Mugurel Andreica

Saratov State University

Natalya Andreeva, Coach
Andrew Lazarev
Ilya Elterman
Michael Mirzayanov

St Petersburg Institute of Fine Mechanics and Optics

Andrey Stankevich, Coach
Alexander Shtuchkin
Eugene Yuzhakov
Timofey Borodin

Warsaw University

Jan Madey, Coach
Eryk Kopezynski
Lukasz Kaminski
Tomasz Malesinski

Belarusian State University

Vladimir Kotov, Coach
Aliaksei Danchanka
Aliaksei Kirkouski
Ivan Zauharodneu

Ecole Polytechnique

Jean-Marc Steyaert, Coach
Behshad Behzadi
Konstantin Artiouchine
Serguei Ouzdine

Novosibirsk State University

Tatyana Nesterenko, Coach
Alexander Shapeev
Alexey Baburin
Evgeny Chetvertakov

Petrozavodsk State University

Vladimir Kuznetsov, Coach
Alexander Churumov
Denis Koshman
Sergey Ryazanov

Royal Institute of Technology

Fredrik Niemelä, Coach
David Rydh
Fredrik Niemelä
Mattias de Zalenski

Sofia University

Krassimir Manev, Coach
Georgi Mangov
Kristiyan Haralambiev
Miloslav Sredkov

University of Oldenburg

Dietrich Boles, Coach
Christian Ohler
Daniel Jasper
Jens Zumbärgel

Latin America

Instituto Tecnológico de Ciudad Madero

Graciela Mora Otero, Coach
Federico Alonso Pecina
Francisco Alonso Pecina
Katya Murcia Castaneda

Universidad de Buenos Aires

Pablo Coll, Coach
Dario Fischbein
Flavia Bonomo
Sergio Sancho

Universidade Federal de Pernambuco

Katia Guimaraes, Coach
Hugo Santana
Igor Gatis
Leonardo Cunha

North America

California Institute of Technology

Miroslav Dudik, Coach
David Stafford
Leo Polovets
Po-Shen Loh

Duke University

Owen Astrachan, Coach
Andrew Chatham
David Arthur
Kevin Lacker

LeTourneau University

Brent Baas, Coach
Jesse McDonald
Jonathan Anderson
Timothy Clark

Messiah College

Gene Chase, Coach
Jason Long
Jeffrey Woldan
Jonathan Corbin

Saint Mary's University

Pawan Lingras, Coach
Chad West
Jonathan Sharkey
Steven Perron

Texas Tech University

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Angel Ricardo Morales
Joe Pollard
Nathan Rogers

University of Arkansas

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Brent Shores
Hieu Nguyen
Jason Cunningham

University of California at Berkeley

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Lior Abraham
Mark Goodman
Patrick Davidson

University of Central Florida

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Ambrose Feinstein
Phillip Dexheimer
Richard Russo

University of North Carolina

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Chris Schenck
John Ehrhardt
Nathaniel Massey

University of Toronto

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Catalin Drula
Matei David
Samuel Huang

University of Wisconsin - Madison

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Bradley Grzesiak
Chad Koch
Lei Chen

Virginia Tech

Sallie Henry, Coach
Adrian Porter
Alex Verstak
William Luebke

South Pacific

University of New South Wales

Hossam ElGindy, Coach
Alexandre Mah
David Harvey
John Lai

ITESM, Campus Monterrey

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Alejandro Oviedo-Cruz
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Universidade de São Paulo

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Marcel Silva
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Cornell University

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Jeffrey Hoy
Lars Backstrom
Michael Connor

Florida Institute of Technology

Ryan Stansifer, Coach
John Brown
Matthew Oertle
Rusty Wagner

Massachusetts Institute of Technology

Martin Rinard, Coach
John Danaher
Percy Liang
Reid Barton

Queen's University

Thomas Tang, Coach
Chris St. John
Christopher Wolfe
Gary Linscott

Stanford University

Claire Stager, Coach
Chuong Do
Daniel Wright
Jon McAlister

The University of Chicago

Michael O'Donnell, Coach
Aquinas Hobor
Ivona Bezakova
Sonya Cates

University of Calgary

Jim Parker, Coach
Chris Marriott
Erin Moeller
Sonny Chan

University of California, San Diego

Brad Calder, Coach
Jeremy Lau
Matthew Fedder
Stefan Schoenmackers

University of Nebraska - Lincoln

Charles Riedesel, Coach
Brian Wickman
Daniel Buettner
Ellen Veomett

University of Texas at Austin

Douglas Van Wieren, Coach
Andrew Hudson
Brian Peters
Paolo Ferraris

University of Waterloo

Gordon Cormack, Coach
Denis Dmitriev
Graeme Kemkes
Ming-Yee Iu

University of Wisconsin - Parkside

Stuart Hansen, Coach
Duy Huynh
Richard Hoyt
Tien Nguyen

University of Otago

Chris Handley, Coach
Andres James
Ben Handley
Jon Edwards