ICPC FACT SHEET – 22 Feb 2016

The 40th Annual World Finals of the
ACM International Collegiate Programming Contest (ICPC)
sponsored by IBM

hosted by Prince of Songkla University

in Phuket, Thailand, 15-20 May 2016

About the Contest – www.acmicpc.org***, also*** 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 2016 ACM-ICPC World Finals sponsored by IBM and hosted by Prince of Songkla University – which will be conducted on 19 May 2016 in Phuket, Thailand.

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 1600%. This past year, ICPC participation included 40,266 of the finest students and faculty in computing disciplines from 2,736 universities from 102 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 2015) – This year 40,266 contestants from 2,736 universities in 102 countries on six continents competing at over 481 sites to advance to the World Finals. A record 43,967 students and 4,637 coaches competed in ICPC and ICPC-assisted competition this year. This year set new records in participation.
- World Finals (15-20 May 2016, Phuket, Thailand) – Hosted by Prince of Songkla University, 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.
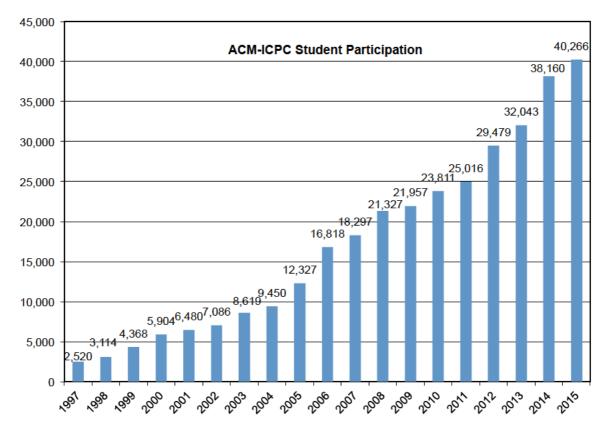
To learn more about the ICPC, please visit icpc.baylor.edu or acmicpc.org.

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 40,266 contestants from 2,736 universities in 102 countries competed in regional competitions at over 481 sites worldwide. Since the beginning of IBM's sponsorship in 1997, participation has increased more than 1600%. For more information on previous contests, and last year's final standings and problem sets, please see icpc.baylor.edu. Growth continues.

World Finals 2016 hosted in Phuket – the final round following the 2015 Regionals

One hundred and twenty-eight teams from regional contests servicing universities worldwide will advance to the World Finals to be held in Phuket, Thailand, 15-20 May 2016. The World Finals is hosted by Prince of Songkla University. Prince of Songkla hosted the very first regional contest in Thailand in 2009.

Recent medal winners in order of finish are:

- 2015 Gold   St. Petersburg National Research University ITMO (Russia)
                  Moscow State University (Russia)
                  The University of Tokyo (Japan)
                  Tsinghua University (China)
           Silver   Peking University (China)
                  University of California at Berkeley (USA)
                  University of Zagreb (Croatia)
                  Charles University in Prague (Czech Republic)
           Bronze   Shanghai Jiao Tong University (China)
                  Massachusetts Institute of Technology (USA)
                  Korea University (Korea)
                  University of Warsaw (Poland)
- 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)

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 cognitive computing, cloud computing, big data and analytics, mobile, social business and security. For more information, visit www.ibm.com.

About Prince of Songkla University
Prince of Songkla University (PSU) is a public university established in 1967 as the first university in southern Thailand. It consists of five campuses, offering various programs of education consistent with the needs of their communities. The university also comprises 30 faculties, two hospitals and more than 40 excellence and research centers. All of these have committed to academic excellence, strong social responsibility and active engagement in community services. The number of students is currently over 40,000. The main missions of the university are to raise general education standards and to support regional industry and development. Furthermore, the university aims to establish excellence in research and teaching, to provide academic services to communities and to take an active role in the preservation of national heritage in arts and culture, especially for those from southern Thailand. As a leading research university in Asia, PSU has contributed significantly to the development of the country and consistently produced well-qualified graduates of high professional standing.

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.

2016 World Finalists – 128 teams

Africa and the Middle East

Aleppo University www.alepuniv.com Team name: Beginners	Alexandria University - Faculty of Engineering eng.au.alexu.edu.eg Team name: New Folder
Arab Academy for Science and Technology (Alexandria) www.aast.edu Team name: No Ana Gai Aharag	British University in Egypt www.bue.edu.eg Team name: Gotta Solve Em All
Cairo University - Faculty of Computers and Information www.fci.cu.edu.eg Team name: El Psy Congroo	Damascus University www.damascusuniversity.edu.sy Team name: Nitro++
Princess Sumaya University for Technology psut.edu.jo Team name: EarlGrey (PSUT)	Tishreen University www.tishreen.edu.sy Team name: 4th FLOOR
University of Cape Town www.uct.ac.za Team name: Amazingly Complicated Macros	

Asia

Ateneo de Manila University www.admu.edu.ph Team name: Fuchsia Moth	Beihang University ev.buaa.edu.cn Team name: TheWaySoFar
Beijing University of Posts and Telecommunications www.bupt.edu.cn Team name: heheda	Birla Institute of Technology & Science, Pilani Campus www.bits-pilani.ac.in Team name: stronglyConnected
Chulalongkorn University www.chula.ac.th Team name: CUCP Meow Meow :3	Fudan University www.fudan.edu.cn Team name: Saga
Ho Chi Minh City University of Science www.hcmus.edu.vn Team name: HCMUS - Shine	Indian Institute of Information Technology – Allahabad www.iiita.ac.in Team name: Greed for Speed
Indian Institute of Technology - Bombay www.iitb.ac.in Team name: ntm	Indian Institute of Technology – Delhi www.iitd.ernet.in Team name: angle
Indian Institute of Technology – Kanpur www.iitk.ac.in Team name: FacelessMen	Indian Institute of Technology – Roorkee www.iitr.ernet.in Team name: 11Coders
Islamic Azad University of Mashhad en.mshdiau.ac.ir Team name: Aspire	Jahangirnagar University www.juniv.edu Team name: JU O(N^3)
KAIST www.kaist.ac kr Team name: [A-Za-z0-9]+	Kim Il Sung University www.ryongnamsan.edu kp Team name: RNS
Korea University www.korea.ac kr Team name: Opportunity	Kyoto University www.kyoto-u.ac.jp Team name: breakShot
National Chiao Tung University www.nctu.edu.tw Team name: NCTU Thor	National Taiwan University www.ntu.edu.tw Team name: bcw0x1bd2
National University of Defense Technology www.nudt.edu.cn Team name: ALPC_Farewell	National University of Singapore www.nus.edu.sg Team name: RRwatameda
Ningbo University www.nbu.edu.cn Team name: what duang to eat dinner	Northeastern University (China) www.neu.edu.cn Team name: NEU I forgot it.
Northeast Normal University www.nenu.edu.cn Team name: Daedalus	North South University www.northsouth.edu Team name: NSU BugLovers
Osaka University www.osaka-u.ac.jp Team name: chikOkU	Peking University www.pku.edu.cn Team name: Crawl
Prince of Songkla University www.psu.ac.th Team name: FEDEX	Shahid Beheshti University en.sbu.ac.ir Team name: In 1010101 We Trust!
Shahjalal University of Science and Technology www.sust.edu Team name: DownToTheWire	Shanghai Jiao Tong University www.sjtu.edu.cn Team name: Dreadnought

Shanghai University http://www.shu.edu.cn Team name: Wand Maker	Sharif University of Technology www.sharif.edu Team name: CrockPot
South China University of Technology www.scut.edu.cn Team name: SOX	The Chinese University of Hong Kong www.cse.cuhk.edu.hk Team name: Real Base
The University of Tokyo www.u-tokyo.ac.jp Team name: IIIIIIIIlllIIIIIIIIIIIIIIIIIIIII	Tianjin University www.tju.edu.cn Team name: TJU_Thief_Master
Tsinghua University www.tsinghua.edu.cn Team name: Wunderzeit	University of Aizu www.u-aizu.ac.jp Team name: FinalZukky
University of Electronic Science and Technology of China www.uestc.edu.cn Team name: UESTC_murasame	University of Engineering and Technology – VNU e.uet.vnu.edu.vn Team name: BYTE
Zhejiang Normal University www.zjnu.edu.cn Team name: NoPenalty	Zhejiang University acm.zju.edu.cn Team name: Siunaus
Zhongshan (Sun Yat-sen) University www.sysu.edu.cn Team name: SYSU_Braid	

Europe

Belarusian State University www.bsu.by Team name: BelarusianSU1	Belarusian State University of Informatics and Radioelectronics www.bsuir.by Team name: Belarusian SUIR 2
Charles University in Prague www.cuni.cz Team name: MFF	Comenius University www.uniba.sk Team name: Zelovoc svetla
ETH Zürich www.ethz.ch Team name: rETHink	Imperial College London www.imperial.ac.uk Team name: DoCThors
Innopolis University university.innopolis ru Team name: Innopolis U Known	Jagiellonian University in Krakow www.uj.edu.pl Team name: Jagiellonian
Lviv National University franko.lviv.ua Team name: LNU Penguins	Moscow Aviation Institute www.mai.ru Team name: MAI #1
Moscow Engineering Physics Institute www.mephi.ru Team name: MEPhI: Cupcakes	Moscow Institute of Physics & Technology www.mipt.ru Team name: MIPT: Jinotega
Moscow State University msu ru Team name: Moscow SU Trinity	Nizhny Novgorod State University www.unn.ac.ru Team name: Nizhny Novgorod SU 1
Northern (Arctic) Federal University narfu ru/en Team name: Northern (Arctic) FU 1	Radboud University www.ru.nl Team name: That empty teamname
Saratov State University sgu.ru Team name: Saratov SU Daemons	St. Petersburg Academic University www.spbau ru Team name: SPbAU 1 Generation Z
St. Petersburg ITMO University en.ifmo ru Team name: SPb ITMO University 1	St. Petersburg State University eng.spbu.ru Team name: SPb SU 1: Base
Taras Shevchenko National University of Kyiv www.univ kiev.ua Team name: Flawless	Universitat Politècnica de Catalunya www.upc.edu Team name: Twelve seconds
University of Helsinki www.helsinki.fi Team name: Game of Nolife	University of Warsaw www.uw.edu.pl Team name: Warsaw Eagles 2016
University of Wroclaw www.uni.wroc.pl Team name: UWr1	University of Zagreb www.unizg hr Team name: Zagreb
Ural Federal University www.ustu ru Team name: Ural FU: Dandelion	Utrecht University www.cs.uu nl Team name: Curiously recurring
Zaporizhzhya National Technical University zntu.edu.ua Team name: ZNTU_SetUp	

Latin America

Escuela Superior De Computo Instituto Politecnico Nacional www.escom.ipn mx Team name: La Carabina del AC	Instituto Tecnológico Autónomo de México www.itam mx Team name: Los Románticos
ITESM Campus Monterrey www.mty.itesm mx Team name: HaKings	Universidad de Buenos Aires – FCEN exactas.uba.ar Team name: PUMMAS
Universidad de Chile www.dcc.uchile.cl Team name: Squash Masters	Universidad de La Habana www.uh.cu Team name: UH REFRESH
Universidad de los Andes, Colombia www.uniandes.edu.co Team name: Programators Mark II	Universidad de Oriente - Sede Antonio Maceo www.uo.edu.cu Team name: Conquer & Divide
Universidade de São Paulo www.usp.br Team name: Sua mãe	Universidade de São Paulo - Campus de São Carlos www.icmc.usp.br Team name: Bob
Universidade Estadual de Campinas www.ic.unicamp.br Team name: BibleThump	Universidade Federal da Bahia www.ufba.br Team name: ROBÉRIO E SEUS TECLADOS
Universidade Federal de Campina Grande www.dsc.ufcg.edu.br Team name: Abella e as feras	Universidade Federal de Pernambuco www.cin.ufpe.br Team name: Turing-indecisos
Universidad Nacional de Colombia – Bogotá www.unal.edu.co Team name: UNDynamic	Universidad Nacional de Ingeniería – FIIS www.fiis.uni.edu.pe Team name: 1000KB
Universidad Nacional de Rosario www.unr.edu.ar Team name: Caloventor en Dos	Universidad Simón Bolívar www.usb.ve Team name: RAM

North America

California Institute of Technology www.caltech.edu Team name: Kiss a Wookiee	Carnegie Mellon University www.cmu.edu Team name: CMU1
Cornell University www.cornell.edu Team name: snoopy fan club	Harvard University www.harvard.edu Team name: Harvard
Illinois Institute of Technology www.iit.edu Team name: Illinois Tech	Iowa State University www.iastate.edu Team name: Freelancers
Massachusetts Institute of Technology web mit.edu Team name: MIT ZERO	Ohio State University www.osu.edu Team name: Future Gazer
Rice University www.rice.edu Team name: Rice Gray	South Dakota School of Mines and Technology www.sdsmt.edu Team name: SDSMT Hardrockers
Stanford University www.stanford.edu Team name: Stanford Cardinal	The University of South Dakota www.usd.edu Team name: USD A
University of British Columbia www.ubc.ca Team name: UBC+	University of California at Berkeley www.berkeley.edu Team name: Berkeley Blue
University of Central Florida www.ucf.edu Team name: UCF Knights	University of Chicago www.cs.uchicago.edu Team name: Sufficiently Advanced Tech
University of Illinois at Urbana-Champaign illinois.edu Team name: Poor Man's Shield	University of Minnesota - Twin Cities www.umn.edu Team name: Benchwarmers
University of North Carolina at Chapel Hill www.cs.unc.edu Team name: Dayton Goliath Trees	University of Southern California www.usc.edu Team name: USC Trojans
University of Utah www.utah.edu Team name: Uncompilables	University of Virginia acm.cs.virginia.edu Team name: foo
University of Waterloo www.uwaterloo.ca Team name: Waterloo Black	University of Wisconsin – Madison www.wisc.edu Team name: SmileDog
Virginia Tech www.cs.vt.edu Team name: Java the Hutt	

South Pacific

The University of Western Australia www.uwa.edu.au Team name: Off By Wonders	University of New South Wales www.cse.unsw.edu.au Team name: TheNorthernLine