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Greetings from the ACM Japan Chapter

Welcome to the 31st Annual ACM ICPC World Finals sponsored by IBM!

Congratulations to all contestants for advancing to the World Finals! I am sure that you have all worked hard preparing for this contest. During this World Finals week, there will be numerous activities outside of the contest itself. Please take advantage of them. Make new friends; learn something new; and most important, enjoy yourselves!

Some of you may have noticed that, unlike previous years, this World Finals is not hosted by a single university. ACM Japan Chapter is proud to co-host this event with the help of multiple universities. 2007 marks the 10th year that ACM Japan Chapter has been involved with ICPC at the regional contest level. So we are especially excited to have the opportunity to hold the World Finals in Japan this year.

The host committee consists of veterans of past regional contests in Japan, many of whom have had experience as Regional Contest Director and/or Chief Judge. They have worked hard at ensuring that this World Finals will be a success.

The volunteers are made up mostly of past ICPC contestants. Some of them have made it to past World Finals, and they are eager to "give back" to everyone. If you need help, please look for them in the purple T-shirts with "Host Staff" printed on the back.

ACM Japan Chapter is grateful for the opportunity to co-host the 2007 World Finals. We thank IBM for their continued support of this world event.



Norihisa Doi

Norihisa Doi
ACM Japan Chapter Chair



Greetings from the IBM Tokyo Research Laboratory

Welcome to Tokyo and congratulations on qualifying for the 31st ACM International Collegiate Programming Contest World Finals. As the director of IBM's Tokyo Research Laboratory, I am honored to be co-hosting this prestigious event in Tokyo, collaborating with the ACM Japan Chapter.

IBM Research has more than 3,000 researchers in eight laboratories worldwide. In the Tuesday IBM Tech Trek session, you will hear from Paul Horn, the head of IBM Research, about the exciting projects that we are conducting. The IBM Tokyo Research Laboratory is a member of this world-leading IT research organization, with approximately 180 researchers working in various fields of computer science. Our lab was established in 1982 in downtown Tokyo, so we are celebrating our 25th anniversary this year. During the quarter century, we have produced a number of innovations including Japanese input methods, speech recognition techniques, shared-memory multiprocessor systems, object-oriented extensions to the C programming language, digital watermarking, a hard disk protection system, Java JIT compilers, XML technologies, and Web services, to name just a few. You will see some of our latest achievements in the Cybercafe – I urge you to pay a visit. As a research organization, we are also proud that we are a part of the academic community that is advancing computer science to make the world a better place for everybody!

Programming is fun. I remember writing my first program some 30 years ago, when I was a high school student. The machine was a mini-computer with only 16 kilobytes of magnetic core memory. The program was a very simple one for printing logarithms in a tabular form – nothing more than two nested DO loops in the programming language FORTRAN. But I was really thrilled. I felt very powerful, overseeing my own small island, and controlling everything within it exactly as I wished.

Today, I have very little time to do my own programming while leading an organization of 200+ people. Nonetheless, I still enjoy programming from time to time. Last year, I developed my own digital control system for model trains. Each locomotive has an onboard microcontroller that I programmed in assembly language. It is a small system, but it reminds me of the thrill of programming.

You came a long way to attend these World Finals. Be proud of what you have accomplished, and please enjoy yourself. We guarantee that this will be a memorable event for each of you.

Best of luck!

A handwritten signature in black ink that reads "H. Maruyama".

Hiroshi Maruyama
Director, Tokyo Research Laboratory
IBM Research



Greetings from ACM

Welcome to the Finals of the 31st Annual ACM International Collegiate Programming Contest.

ACM is extremely proud to present this contest. As President, I am delighted with its past successes and the present high energy. I look forward to attending the contest in Tokyo, and to meeting you, the outstanding participants.

The ICPC has grown into an extraordinary phenomenon. This year's contestants represented 1,756 universities around the globe. More than 6,000 teams competed at regional sites, and all are to be congratulated for their talent and achievement. The members of the 88 teams that made it to this last stage are the best of the best -- probably the finest programmers in college today.

Congratulations to all of you who have reached this point. You are already winners.

Special thanks are due to Bill Poucher for guiding and driving the contest all these years, making it one of the most exciting and challenging computing activities on the planet. Much gratitude goes to all the volunteers who keep the regional and worldwide events humming. We are grateful to Baylor University for its continuing strong support of Bill and the ICPC. ACM thanks IBM for ongoing support as the long-term sponsor of the contest. This year, special appreciation goes to IBM's Tokyo Research Lab, which is providing additional financial and logistical support as part of its 25th anniversary.

See you in Tokyo, and best of luck to all!

A handwritten signature in black ink that reads "Stuart Feldman". The signature is written in a cursive, flowing style.

Stuart Feldman
President, ACM



Greetings from ICPC

The ICPC Community says, "Kon-ni-chi-wa!"

Welcome to the 31st Annual ACM International Collegiate Programming Contest World Finals sponsored by IBM and hosted by ACM Japan Chapter and IBM Tokyo Research Lab. We have partnered with the UPE Honor Society and ACM to provide you with the finest possible setting here at the Tokyo Disney Resort.

The ACM-ICPC World Finals culminates the efforts of faculty and students from 1,756 universities that hosted 6,099 teams at regional sites worldwide. Only 88 teams have advanced to the World Finals. Congratulations to all of you World Finals teams and to those who have made this possible.

These World Finalists are here because they SET THE STANDARDS by which others measure their teamwork, skill, and problem-solving abilities. These champions have earned the right to compete at the World Finals for further recognition. It is their performance that gives the luster to the 2007 World Champions.

They have not been bashful in setting the highest standards in history. That is an essential component of the spirit needed to make this world's future bright. Two other components are investment and opportunity provided by their coaches, faculty mentors, universities, regional contest hosts, and industry. Leaders of these communities here at the World Finals and around the globe are wishing them all continued success.

There are so many stars in the ICPC Community. UPE has served for 37 years, ACM has served for 31 years, and Baylor University has served for 24 years. In 10 years of IBM sponsorship, the ICPC expanded to universities in 82 countries on six continents posting nearly 800% growth! Championed by ACM Japan Chapter, nine great Japanese universities have hosted regional contests throughout this great nation, extending the competition to all.

The BRIGHTEST stars in the ICPC Universe are you, the 2007 World Finalists!

So, on behalf of the ICPC Community, "Kon-ni-chi-wa!" Welcome to Tokyo!



William B. Poucher

William B. Poucher, Ph.D., ACM Fellow
ICPC Executive Director



IBM | event sponsor



Greetings from the IBM Executive Sponsor

Congratulations on qualifying for the 31st annual ACM International Collegiate Programming Contest World Finals, the oldest, largest, and most prestigious competition in computing science and engineering among the world's great universities! As sponsoring executive, I am delighted to welcome you, on behalf of IBM, to Tokyo, a city of the 21st century with ancient roots. This is the second time that the Finals are taking place in Asia, and we hope you will have some time to explore and experience Japanese culture during this once-in-a-lifetime opportunity.

All of you have been working hard to prepare for this year's Finals. The IBM team has also been enthusiastically planning for these next few days in Tokyo, and we are very excited to be sharing this time with you. The ACM-ICPC World Finals Contest is a gathering of the world's brightest young programmers, and we look forward to meeting each of you at the many fun and enlightening activities planned this week. Of course the highlight for me, and for all my IBM colleagues, will be watching you compete on the international stage on Thursday.

IBM and ACM volunteers have prepared a unique agenda for you and your teammates to enjoy during the days we are together. We hope you take full advantage of being here to meet your fellow coaches and contestants from all over the world. Many long-lasting friendships have begun at the World Finals.

Some highlights of activities this week include:

- ▲ IBM Welcome Reception (Monday evening) - After you register and get your badge, come join us for some food and mingling.
- ▲ IBM CyberCafe (Monday through Wednesday evenings) - This is the place to be each evening! The CyberCafe gives you a look at cool, emerging technologies from IBM, and a chance to speak with the people who work on the research and development. We have an especially interesting line-up of demonstrations - many from the IBM Tokyo Research Lab. In the Cyber Cafe, you can also check your email, play games, enjoy snacks, and hang out with new friends.
- ▲ IBM Tech Trek (Tuesday) - Explorations into new "worlds" and technologies, presented by IBM experts and a special guest speaker.
- ▲ Celebration! (Thursday) - I don't want to spoil the surprise of the post-contest celebration event, hosted by IBM. I'll just say - don't miss it!

The World Finals Contest is here at last. Be proud of what you have accomplished so far and take from this experience memories that remain with you forever. Most of all, enjoy yourself during this exciting and momentous week. Best of luck!



Doug Heintzman
Director of Strategy, Lotus Software
IBM Software Group



Greetings from UPE

The 88 teams who are here in Tokyo this week represent colleges and universities from around the world and reaffirms what we have known for several years - that the ICPC World Finals is truly a global event.

It is heartwarming to note that in 2007, the year of the golden boar, we are back in Asia for the second time in three years. 2007 also celebrates IBM's long presence in Japan.

Upsilon Pi Epsilon (UPE) is very proud to be a part of this celebration here in Tokyo. As the only honor society for the computing and information disciplines, it is our mission to recognize academic excellence in these fields. Our active involvement in ICPC activities allows UPE to expand this mission by giving us the opportunity to recognize programming excellence on a global scale. We are proud to honor all of you who represent the best of the best in computing.

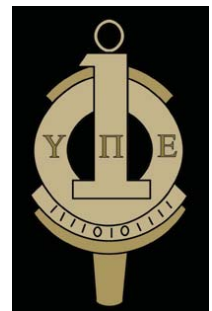
The members of the Executive Council of UPE wish to salute all of the students who are in this select group of 88 teams, along with your coaches. Your participation in this week's events proves that you have reached the pinnacle of the programming discipline.

Our best wishes to all of you and we hope that you will all leave Tokyo with grand memories of the 2007 ICPC World Finals.



Orlando de Madrigal

Orlando Madrigal
International Secretary
UPSILON PI EPSILON
Honor Society for the Computing &
Information Disciplines



Greetings from the World Finals Director

Welcome to the 31st Annual ACM-ICPC World Finals sponsored by IBM!

It is a great honor to welcome each and every one of you – contest participants, coaches, honorary guests, ICPC staff, IBM staff, UPE staff, and host volunteers.

ICPC is, first and foremost, a contest. I believe that you have all spent countless hours preparing for the ensuing “battle”. You will have the challenge of trying to solve as many problems as possible within a short period of time against the best in the world. Each person's programming skill is important, but teamwork will also be crucial. How each of you work within your team may be critical in getting a high number of problems correct.

But remember that ICPC is not just a contest. I would like to stress that ICPC is a great place to get to know people from all over the world – people of various cultural, ethnic, and educational backgrounds. There are various activities planned during the week, and I hope that you take time to get to know as many people as possible.

For many of you, this will be your first time in Japan. Even if your stay is short, I hope that you will be able to experience some of the various Japanese cultures.

Finally, I would like to extend my deepest gratitude to IBM for their continued support of this world event. I hope that your stay in Japan is a memorable one!



A handwritten signature in black ink, appearing to read "Shingo Takada". The signature is fluid and cursive.

Shingo Takada
World Finals Director

Greetings from the Japanese Minister of Innovation

Good luck to all of you, the future of IT!

Welcome to Japan!

Congratulations on advancing from the regional contests, held worldwide, to the 31st Annual ACM International Collegiate Programming Contest World Finals.

As the minister in charge of Information Technology, I am proud to have such a prestigious contest in our country. Nowadays, the creation and utilization of new knowledge is becoming increasingly important. IT is the source for improving competitive strength and productivity, and advances in IT will lead to innovation.

The role of software has expanded from just controlling simple hardware to the point where it has now become an important foundation for supporting social infrastructure. IT contributes greatly to our international society by solving myriad challenges. I believe that the resulting innovation is the key toward the continuing development of world economy.

I hope that you – the young and intelligent leaders of the next generation in Information Technology – will take advantage of this opportunity to improve your knowledge and skill, and contribute in the near future to the happiness and prosperity of people worldwide.

The world is dramatically becoming flat, with inter-dependence becoming increasingly important. I hope the culture exchange you experience during this contest week will result one day in supporting your achievements as global innovators, and in enhancing international society.

I believe that you have both the interest and enthusiasm for the never-ending quest for knowledge. I hope that this contest will be a meaningful challenge for everyone.

Finally, I would like to wish everyone "Good luck!"



Sanae Takaichi 高市 早苗

Sanae Takaichi
*Minister of State for Okinawa and Northern Territories Affairs,
Science and Technology Policy, Innovation, Gender Equality,
Social Affairs and Food Safety*

Greetings from IPSJ

Welcome to the 31st ACM-ICPC World Finals sponsored by IBM!

On behalf of the Information Processing Society of Japan (IPSJ), I would like to congratulate all 88 teams that have advanced to this World Finals.

IPSJ is a sister society of ACM. It is the largest and leading society in information technology in Japan, with more than 22,000 members. We have been supporting the ICPC Regional Contests in Japan for the past eight years, and I am honored to have this year's World Finals held in Japan. It also adds great pleasure to me because of the timing – the 2006 Regional Contest in Japan was held at Keio University, where I am the president.

The future of IT rests in young people such as yourselves. By advancing to the World Finals, each of you has shown that your skill is at the top level in the world. You also know that you are here because of your teamwork. The collaboration of the three contestants on each team is what enabled you to come here. And, being possibly more important, you are here to find the opportunity of getting to know other people, other culture, and other ways of thinking, at the global level of the World Finals. Members of your present team are from the same university, future teams you belong to may include members from other parts of the world.

Finally, I wish everyone good luck in the World Finals and future endeavors!

A handwritten signature in black ink, appearing to read 'Yuichiro Anzai'.

Yuichiro Anzai
President of the Information Processing Society of Japan





World Finals Schedule

Monday, March 12

		Location	Attendees
2:30 PM - 5:00 PM	New RCD Workshop - <i>By invitation</i>	Asanagi Matsukaze	New RCDs only
5:00 PM - 9:30 PM	Registration - <i>Team Notebook Initial Inspection</i>	Cloak Foyer	All
6:00 PM - 9:00 PM	IBM Welcomes the Attendees (come and go) - <i>Food available from 6:00 PM - 8:30 PM</i>	Banquet Foyer	All with badges
8:00 PM - 11:30 PM	IBM CyberCafe - come and go	Matsukaze	All with badges

Tuesday, March 13

6:30 AM - 9:00 AM	Breakfast at the Hotel	Squares	Included with room
8:00 AM - 2:00 PM	Competitive Learning Symposium - <i>By invitation</i>	Matsukaze	CLS attendees
8:00 AM - 2:00 PM	Regional Contest Directors Symposium - <i>By invitation</i>	Asanagi Matsukaze	RCDS attendees
9:00 AM - noon	IBM TechTrek Program	Ambassador Hotel	Teams, coaches w/badges
noon - 5:00 PM	IBM Excursion & Dinner	DisneySea	Teams, coaches w/badges
noon - 5:00 PM	Women in Technology Forum for Students - <i>Hosted by IBM, by invitation</i>	Gin	Forum attendees
2:30 PM - 7:00 PM	RCDS Excursion & Dinner - Courtesy of IBM - <i>By invitation</i>	DisneySea	RCDS/CLS attendees
8:00 PM - 9:30 PM	RCD Symposium Discussion Tracks	Asanagi A & B	RCDS attendees
8:00 PM - 11:30 PM	IBM CyberCafe - come and go	Matsukaze	All with badges

Wednesday, March 14

6:30 AM - 9:00 AM	Breakfast at the Hotel	Squares	Included with room
7:30 AM - 8:30 AM	Regional Contest Directors' Business Meeting	Gin	RCDS attendees
9:00 AM - 10:30 AM	Opening Ceremony - <i>No one may enter once the program has begun</i> - <i>Processional Music</i> - <i>Host Welcome, Introductions, Recognition, Entertainment</i> - <i>Teams wear ICPC T-shirts. No drink or food, please!</i>	Crystal Ballroom	All with badges Limited public seating
10:30 AM - noon	Practice Session I - <i>Teams wear ICPC T-shirts. No drink or food, please!</i> - <i>Spectators are pre-seated. Coaches and teams go to workstations.</i>	Crystal Ballroom	All with badges
noon - 1:00 PM	UPE Luncheon - courtesy of IBM	Crystal Foyer	All with badges
1:00 PM - 1:30 PM	Answers to Practice Session Questions	Crystal Ballroom	All with badges
1:30 PM - 2:30 PM	Practice Session II - <i>Teams leave Notebooks/Supplies for Finals</i>	Crystal Ballroom	All with badges
2:30 PM - 5:30 PM	Free Time/Activities	Hilton	All with badges
6:00 PM - 8:00 PM	Dinner - Courtesy of IBM	Crystal Foyer	All with badges
8:00 PM - 11:30 PM	IBM CyberCafe - Come and go	Matsukaze	All with badges

Thursday, March 15

6:30 AM - 7:45 AM	Breakfast at the Hotel	Squares	Included with room
7:45 AM - 8:00 AM	Prepare to enter Contest Area - <i>Spectators are seated first to view the entry of teams</i>	Crystal Foyer	Teams, spectators
8:00 AM - 1:30 PM	ACM-ICPC World Finals - <i>Teams wear ICPC T-shirts</i> - <i>Notebooks are at workstations</i>	Crystal Ballroom	All with badges Limited public seating
9:00 AM - noon	IBM CyberCafe - come and go	Matsukaze	All with badges
10:00 AM - 10:45 AM	Coaches meet with the ICPC Executive Director	Asanagi	Coach ++
11:00 AM - noon	Coaches Reception	Asanagi	Coach ++
2:00 PM - 2:30 PM	Coaches Briefing	Asanagi	On-site coaches only
6:00 PM - 7:00 PM	ACM-ICPC World Finals Award Ceremony	Crystal Ballroom	All with badges Limited public seating
7:00 PM - 11:00 PM	World Finals Celebration sponsored by IBM	TBA	All with badges

About the Contest: History and Growth

For a well-versed computer science student, some problems require only precision. Others require knowledge and understanding of advanced algorithms. Still others are simply too hard to solve – except, of course, for the world’s brightest problem-solvers.

The ACM International Collegiate Programming Contest fosters creativity, teamwork, and innovation in building new software programs, and enables students to test their ability to perform under pressure. To summarize ACM-ICPC in one phrase, it is the oldest, largest and most prestigious programming contest in the world.

Battle of the Brains

The contest pits teams of three university students against eight or more complex, real-world problems, with a five-hour deadline. Huddled around a single computer, competitors race against the clock in a grueling 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.

History

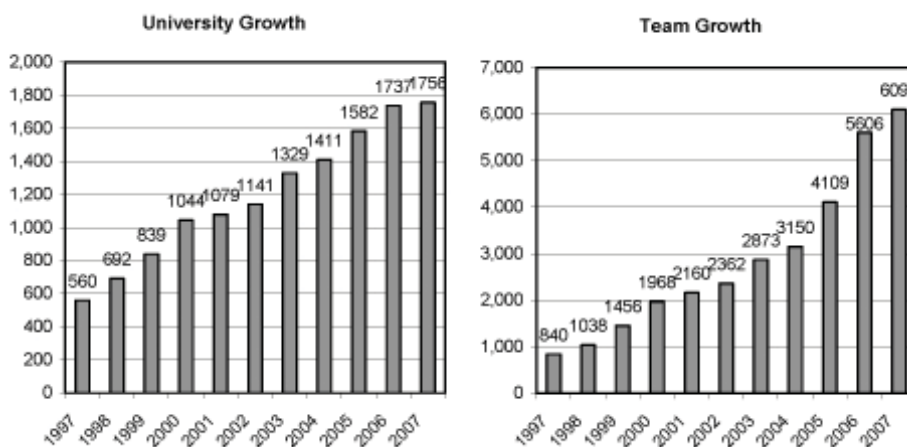
The ICPC traces its roots to a competition held at Texas A&M University in 1970 hosted by the Alpha Chapter of the UPE Computer Science Honor Society. The idea quickly gained popularity within the United States and Canada as an innovative initiative to assist the development of top students in the emerging 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 in Waco, Texas, since 1989, the contest has expanded into a global network of universities hosting regional competitions that advance teams to the ACM-ICPC World Finals.

Contest Growth

Since IBM became sponsor in 1997, the contest has increased by a factor of 7.5.

Participation has grown to involve several tens of thousands of the finest students and faculty in computing disciplines at 1,756 universities from 82 countries on six continents.



About the Contest: History and Growth

ACM International Collegiate Programming Contest Team Participation Since 1989					
Year	Regional Contests			Finals	
	Teams	Universities	Sites	Teams	Sponsor
1989	~400	~308	12	25	SigBoard, Apple
1990	459	354	12	24	AT&T
1991	~500	~386	12	25	AT&T
1992	~600	~400	13	30	AT&T
1993	~600	~400	15	31	AT&T
1994	628	~419	16	35	Microsoft
1995	780	~520	~22	38	Microsoft
1996	800	~533	~27	43	Microsoft
1997	840	~560	~34	50	Microsoft
1998	1038	~692	49	54	IBM
1999	1456	839	63	62	IBM
2000	1968	1044	82	60	IBM
2001	2160	1079	89	64	IBM
2002	2362	1141	94	64	IBM
2003	2873	1329	106	70	IBM
2004	3150	1412	127	73	IBM
2005	4109	1582	144	78	IBM
2006	5606	1737	183	83	IBM
2007	6099	1756	205	88	IBM

Note: ~small discrepancies in old records are interpolated

Levels of Competition

Universities choose teams or hold local contests to select one or more teams to represent them at the next level of competition. This selection is culled from a field of more than 300,000 students in computing disciplines worldwide.

Regional contests were held September to December 2006. Participation in preliminary and regional contests increased by 10 percent from 5,606 to 6,099 teams, as compared with 2005.

This year's World Finals are co-hosted by the ACM Japan Chapter and the IBM Tokyo Research Lab, March 12 to 16, 2007. As the guests of ACM, IBM Corporation, the ACM Japan Chapter and the IBM Tokyo Research Lab, 88 world finalist teams will compete for awards, prizes and bragging rights at the Hilton Tokyo Bay in Tokyo, Japan. These teams represent the best from the finest universities all over the world - the cream of the crop.

About the Contest: Past Winners

1977- Michigan State University
1978- Massachusetts Institute of Technology
1979- Washington University, St. Louis
1980- Washington University, St. Louis
1981- University of Missouri, Rolla
1982- Baylor University
1983- University of Nebraska, Lincoln
1984- Johns Hopkins University
1985- Stanford University
1986- California Institute of Technology
1987- Stanford University
1988- California Institute of Technology
1989- University of California, Los Angeles
1990- University of Otago
1991- Stanford University
1992- University of Melbourne
1993- Harvard University
1994- University of Waterloo
1995- Albert-Ludwigs-Universität Freiburg
1996- University of California, Berkeley
1997- Harvey Mudd College
1998- Charles University, Prague
1999- University of Waterloo
2000- St. Petersburg State University
2001- St. Petersburg State University
2002- Shanghai Jiao Tong University
2003- Warsaw University
2004- St. Petersburg Institute of Fine Mechanics and Optics
2005- Shanghai Jiao Tong University
2006- Saratov State University



Recent Gold Medal Winners in Order of Finish

2006

Saratov State University (Saratov, Russia)
Jagiellonian University – Krakow (Krakow, Poland)
Altai State Technical University (Barnaul, Russia)
University of Twente (Enschede, The Netherlands)

2005

Shanghai Jiao Tong University (Shanghai, China)
Moscow State University (Moscow, Russia)
St. Petersburg Institute of Fine Mechanics and Optics (St. Petersburg, Russia)
University of Waterloo (Waterloo, Ontario, Canada)

About the Contest: Past Winners

2004

St. Petersburg Institute for Fine Mechanics and Optics (St. Petersburg, Russia)
KTH - Royal Institute of Technology (Stockholm, Sweden)
Belarusian State University (Minsk, Belarus)
Perm State University (Perm, Russia)

2003

Warsaw University (Warsaw, Poland)
Moscow State University (Moscow, Russia)
St. Petersburg Institute of Fine Mechanics and Optics (St. Petersburg, Russia)
Comenius University (Bratislava, Slovak Republic)

2002

Shanghai Jiao Tong University (Shanghai, China)
Massachusetts Institute of Technology (Cambridge, MA, U.S.A.)
University of Waterloo (Waterloo, Ontario, Canada)

2001

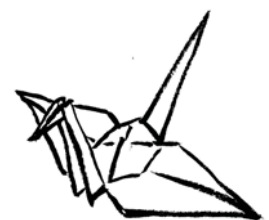
St. Petersburg State University (St. Petersburg, Russia)
Virginia Tech (Blacksburg, VA, U.S.A.)
St. Petersburg Institute of Fine Mechanics and Optics (St. Petersburg, Russia)
University of Waterloo (Waterloo, Ontario, Canada)

2000

St. Petersburg State University (St. Petersburg, Russia)
University of Melbourne (Melbourne, Australia)
University of Waterloo (Waterloo, Ontario, Canada)

1999

University of Waterloo (Waterloo, Ontario, Canada)
Albert-Ludwigs-Universität Freiburg (Freiburg, Germany)
St. Petersburg Institute of Fine Mechanics and Optics (St. Petersburg, Russia)
Bucharest University (Bucharest, Romania)
Duke University (Durham, North Carolina, U.S.A.)



About the Contest: Rules

Mission

The ACM International Collegiate Programming Contest (ICPC) provides college students with opportunities to interact with students from other universities and to sharpen and demonstrate their problem-solving, programming, and teamwork skills. The contest provides a platform for ACM, industry, and academia to encourage and focus public attention on the next generation of computing professionals as they pursue excellence. (from the ICPC Policies and Procedures)

Introduction

The contest is a two-tiered competition among teams of students representing institutions of higher education. Teams first compete in Regional Contests, held around the world from October to November each year. The winning team from each Regional Contest advances to the ACM International Collegiate Programming Contest World Finals that is typically held in March. Additional high-ranking teams may be invited to the World Finals as Wild Card teams. These rules are subject to change.

Organization

The ICPC is organized according to the ICPC Policies and Procedures. The Executive Committee, chaired by the Executive Director, sets the policy and general rules for the conduct of the contest. The Executive Director is solely responsible for interpreting the rules and for ruling on unforeseen situations.

World Finals Site

The World Finals will be held in Tokyo, Japan, March 12-16, 2007, at the Hilton Tokyo Bay. Teams will arrive on Monday, March 12 and depart on Friday, March 16.

Team Requirements

Teams qualify to advance to the World Finals through Regional Contests. Only one team from a given institution may advance to the World Finals. Team members will be provided free one-year memberships in ACM at On-Site Registration. No team member on the qualifying team may have competed as a contestant in two previous World Finals.

The coach of a qualifying team is the point-of-contact prior to and during World Finals activities. The coach must complete certification at the Team Certification Web Site within five (5) business days of notification. Qualifying teams will be issued an invitation by email and postal mail within one business day of completing certification.

Qualifying teams requiring visas must initiate the process of applying for visas within 10 business days of being issued an invitation. Teams failing to comply with any of these requirements will be ruled ineligible to compete in the World Finals. Upon completion of these requirements, a qualifying team will be advanced to the World Finals.

About the Contest: Rules

A team advancing to the World Finals will be comprised of the same three members as when it qualified. In the event that a team member is unwilling, unable or unfit to compete in the World Finals, the coach must notify the ICPC Manager in a timely manner. A team member who is unwilling or unfit to compete in the World Finals will be disqualified from further ICPC competitions. The team member may appeal disqualification to the Appeals Committee.

At on-site registration, participants must provide picture ID (passport, driver's license, etc). Contestants must show proof of enrollment at the university during the term of the regional contest at which they qualified. A letter on university stationery with the signature of a university official accompanied by an English translation is sufficient.

Attendance

Finalists must attend all required events from On-Site Registration to Celebration as indicated in the Schedule of Events. Failure to attend any required event will result in disqualification and forfeiture of scholarships and prizes. Coaches must be accessible during On-Site Registration, the Practice Session, the World Finals, and the Awards Ceremony.

Support and Prizes

Each finalist team will be provided with hotel accommodations for the coach and three contestants for four nights, arriving three days before the World Finals and departing the day after. The hotel accommodations will either be a two-room suite or two separate sleeping rooms. The teams and coaches will be treated to a full schedule of activities including a full course of complimentary food functions. Transportation to the World Finals is the responsibility of the finalists. The ICPC encourages teams to raise funds for transportation and extracurricular activities from local sources to better strengthen community ties among academia, industry, and government.

The UPE Computer Science Honor Society provides \$300 to each team attending the UPE Business Meeting, typically held the day before the World Finals, plus an additional \$450 to teams representing institutions with UPE chapters or who are in the process of establishing UPE chapters. Teams must attend the UPE Business Meeting to receive the UPE funds.

Teams finishing in the top four positions will be awarded Gold Medals. Those teams finishing fifth through eighth place will be awarded Silver Medals. Those teams finishing ninth through twelfth place will receive Bronze Medals.

The highest scoring team is the World Champion and will receive the World Champion Cup and plaques. The North American Champions, the Latin American Champions, the European Champions, the South Pacific Champions, the Asian Champions, and the Africa & Middle East Champions will be presented plaques.

About the Contest: Rules

The World Champion team will be awarded \$10,000. Each of the other three Gold Medal teams will be awarded \$3,000. Each Silver Medal team will be awarded \$2,000. Each Bronze Medal team will be awarded \$1,000. In the event of a tie, benefits of the affected places will be pooled and distributed evenly among the tying teams.

Conduct of the Finals

Eight or more problems have been posed in recent World Finals.

Problems will be posed in English. During the contest, all communications from contest officials to contestants will be in English. Each team may identify an interpreter for translating questions posed by contestants to contest officials. Contestants may bring electronic natural language translators, provided that they do not support math operations.

Solutions to problems submitted for judging are called runs. Each run is judged as accepted or rejected, and the team is notified of the results. Rejected runs will be marked as follows:

- ▲ run-time error
- ▲ time-limit exceeded
- ▲ wrong answer
- ▲ presentation error

Notification of accepted runs will be suspended at the appropriate time to keep the final results secret. A general announcement to that effect will be made during the contest. Notification of rejected runs will continue until the end of the contest.

A contestant may submit a claim of ambiguity or error in a problem statement by submitting a clarification request. If the Judges agree that an ambiguity or error exists, a clarification will be issued to all contestants.

While the contest is scheduled to last five hours, the Finals Director has the authority to lengthen the contest in the event of unforeseen difficulties. Should the Contest duration be altered, every attempt will be made to notify contestants in a timely and uniform manner.



About the Contest: Rules

Scoring of the World Finals

The World Finals Judges are solely responsible for determining the correctness of submitted runs. In consultation with the World Finals Judges, the Director of Judging is responsible for determining the winners of the World Finals. They are empowered to adjust for or adjudicate unforeseen events and conditions. Their decisions are final.

Teams are ranked according to the most problems solved. Teams placing in the first twelve places who solve the same number of problems are ranked first by least total time and, if need be, by the earliest time of submittal of the last accepted run.

The total time is the sum of the time consumed for each problem solved. The time consumed for a solved problem is the time elapsed from the beginning of the contest to the submittal of the first accepted run plus 20 penalty minutes for every previously rejected run for that problem. There is no time consumed for a problem that is not solved.

Computing Environment

The World Finals programming language tools include Java and C/C++. See the Programming Environment Web Site for detailed configuration information. Prior to the World Finals, the judges will have solved all problems in Java and C/C++.

Each team will be provided with a single computer and a calculator. All teams will have equivalent computing equipment.

Contestants may not bring any printed materials or machine-readable versions of software or data to the Contest Area. Contestants may not bring their own computers, computer terminals, calculators, or other electronic devices to the Contest Area.

Each team member may bring an unannotated natural language dictionary. On-line reference materials will be made available as described at the Reference Materials Web Site. Each team will be permitted to provide a PDF file of up to 25 pages of notes within the limits described at the Team Certification Web Site. Details are provided at On-Site Registration Instructions.

Contestant Conduct in the Contest Area and During the World Finals

DO NOT TOUCH ANYTHING at the team workstations until so directed by the Finals Director.

Contestants are not to converse with anyone except members of their team and personnel designated by the Finals Director. Systems support staff may advise contestants on system-related problems such as explaining system error messages.

A team may be disqualified by the Finals Director for any activity that jeopardizes the World Finals such as dislodging extension cords, unauthorized modification of contest materials, or distracting behavior.

About the Contest: Policies and Procedures

Policies and Procedures for the ACM International Collegiate Programming Contest

Submitted: July 3, 2001

Approved by ICPC Executive Committee Action: Approved July 3, 2001 (8 for, 0 against, 1 on vacation)

Changes since May 21, 2001:

1. Renamed the ICPC Steering Committee to the ICPC Executive Committee to avoid confusion with the ICPC International Steering Committee
2. Renamed the ICPC Director the ICPC Executive Director to avoid confusion with site, regional, super regional directors, and other directors.
3. changed "best efforts" to reasonable efforts
4. added a section on changing the PPG

Mission

The ACM International Collegiate Programming Contest (ICPC) provides college students with opportunities to interact with students from other universities and to sharpen and demonstrate their problem-solving, programming, and teamwork skills. The contest provides a platform for ACM, industry, and academia to encourage and focus public attention on the next generation of computing professionals as they pursue excellence.

Goals

Decisions shall be governed by the following goals:

- ▲ Attract as many students as possible.
- ▲ Attract as many colleges and universities as possible.
- ▲ Draw from as many areas of the world as possible.
- ▲ Provide equitable access to the ACM-ICPC World Finals.
- ▲ Strive for competitive contests.
- ▲ Involve industry and shine the spotlight on students.
- ▲ Maintain and support the volunteer base.

Culture

Organization:

- ▲ Promote regional integrity.
- ▲ Provide global coordination.

Policy:

- ▲ Keep it simple.
- ▲ Serve, don't rule.
- ▲ Never have the same problem for the same reason.

Principles:

- ▲ Put people first.
- ▲ Follow the Golden Rule.
- ▲ Solve all solvable problems; then resolve all resolvable problems; finally, avoid the rest.
- ▲ Grow strong by resolving conflicts.

About the Contest: Policies and Procedures

Membership and Tenure

The ICPC Executive Committee is composed of the ICPC Executive Director, the ICPC Secretary, the Director of Regional Contests, the Finals Director, the Director of Judging, and at most five but not less than two other members. The ICPC Executive Director serves as chair. The immediate past ICPC Executive Director shall continue for one year as an additional member of the ICPC Executive Committee.

The contest is managed at Baylor University under the direction of Dr. William B. Poucher who serves as the ICPC Executive Director. All other members of the ICPC Executive Committee are appointed by the ICPC Executive Director for renewable terms of office not to exceed two years. Every member of the ICPC Executive Committee shall have served for at least four years as a director, judge, or in some other critical volunteer management role, or shall be a sponsor representative. It is further expected that the ICPC Executive Director shall have served at least two years in organizing the ACM-ICPC World Finals.

In the event that the ICPC Executive Director cannot fulfill the duties of the office, the ICPC Executive Committee will select one of its members or a past ICPC Executive Director to assume those duties.

The ICPC International Steering Committee consists of the Director of Regional Contests who serves as chair, the ICPC Secretary, the Super Regional Directors, and at most five but not less than two other members. The ICPC Executive Director serves as an ex-officio member of this committee. The members of the committee other than the ICPC Secretary are appointed by the ICPC Executive Director upon the recommendation of the Director of Regional Contests for renewable terms of office not to exceed two years. Every member of the ICPC International Steering Committee shall have served for at least two years as a director, judge, or in some other critical volunteer management role, or shall be a sponsor representative.

The ICPC Executive Director makes all other appointments annually. An appointment to a committee or operational unit requires a recommendation from the committee chair or unit head. All appointees shall receive letters of appointment and annual recognition of service certificates. Every effort is made to continue those who have served, but not necessarily in the same role. The ICPC Executive Director may remove any appointee after consultation with those to whom the appointee reports.

Organization

The ICPC is a two-tiered competition among teams of students representing institutions of higher education. Teams compete in Regional Contests, from which top scoring teams advance to the ACM-ICPC World Finals. As determined by the ICPC Executive Committee, Regional Contests are grouped into Super Regions. Super Regional Champions and the overall ICPC World Champions are recognized at the ACM-ICPC World Finals. Gold, Silver, and Bronze medal winners are also recognized.

About the Contest: Policies and Procedures

The ICPC Executive Committee is responsible for establishing contest rules, policy, and guidelines. The ICPC Executive Committee shall operate independently in order to assure the integrity of the ICPC. The ICPC International Steering Committee establishes the Regional Rules within the context of the contest rules, resolves regional appeals, rules on internationalization issues, and recommends ways to make the contest more accessible and attractive to international participants. The ICPC International Steering Committee approves regional variations to the Regional Rules.

The ICPC Executive Director shall manage contest affairs, oversee budgetary matters, and assure conformance with policies, procedures and sponsoring agreements. The ICPC Executive Director allocates, disburses, and authorizes the expenditure of all ICPC funds in consultation with affected ICPC leadership and in accordance with sponsoring agreements.

The ACM-ICPC World Finals and Regional Contests are organized and directed by their respective directors. The Director of Judging is responsible for the oversight of past contest problems and defining the problem domain. The Finals Chief Judge supervises judging and resolves judging exceptions during the World Finals. The Director of Judging and Finals Chief Judge recruit and recommend judges and work together with them to formulate problems and establish judging criteria for the ACM-ICPC World Finals. Super Regional Directors are responsible for recruiting and recommending the appointment of Regional Contest Directors and coordinating their efforts with the ACM-ICPC World Finals.

Rules

Contest Rules are determined by the ICPC Executive Committee in conjunction with the ICPC International Steering Committee and will be published within one week of the previous year's ACM-ICPC World Finals. These rules are interpreted and enforced by the ICPC Executive Director. If unforeseen circumstances dictate a rules change, the ICPC Executive Director shall make reasonable efforts to confer with affected parties before making such a change.

ACM-ICPC World Finals

The ACM International Collegiate Programming Contest World Finals, hereinafter called the "World Finals," is an event held each year, typically during the month of March. Teams competing in the World Finals are selected from teams competing in Regional Contests. The World Finals is organized and administered by the ICPC Executive Director who also negotiates and arranges for World Finals facilities, activity meeting space, and hotel room accommodations. The ICPC Executive Director shall coordinate with the sponsor to assure availability of suitable space for sponsor events and activities. If the event is hosted by a conference, a letter of agreement shall be executed identifying all space and setup requirements and registration requirements as part of the joint agreement.

The Finals Director is responsible for the conducting of the World Finals competition within the Contest Rules and guidelines established by the ICPC Executive Committee. The Director of

About the Contest: Policies and Procedures

Regional Contests is responsible for conducting the Regional Contest Directors' Symposium, the Regional Contest Directors' Meeting, and the ICPC International Steering Committee Meeting.

Regional Contests

Regional Contests are held each year according to the Regional Contest Rules, typically no later than the Sunday following the third Saturday in November. Each Regional Contest is organized and operated by a Regional Contest Steering Committee, chaired by a Regional Contest Director who appoints the members. At least one of the members must be a faculty or staff member from another university willing to host a Regional Contest in the future.

The ICPC Executive Director appoints Regional Contest Directors at the recommendation of the Director of Regional Contests. Each Regional Contest Steering Committee localizes the Regional Rules for its own Regional Contest, subject to approval by the Director of Regional Contests. There must not be any deviation in eligibility criteria or in the process for appeal. It is presumed that regional contest rules will not deviate significantly from the Contest Rules so that teams might not be at a disadvantage when competing in the ACM-ICPC World Finals.

Funding of Regional Contests

Regional Contests are financially autonomous, ACM-ICPC-branded events of the host institutions. Nevertheless, Regional Contests must submit budgets for review to assure that funding and expenses are reasonable and that all sponsorship requirements are met, before administrative and logistical support for the Regional Contest may commence. All Regional Contests must award ICPC certificates, use ICPC badges, and provide conforming ICPC T-shirts. All Regional Contests must comply with ICPC sponsoring agreements regardless of whether ICPC or sponsor funding is provided.

Upsilon Pi Epsilon

Upsilon Pi Epsilon, the International Computer Science Honor Society, has supported the ICPC longer than any other society. UPE sponsors awards for all ICPC World Finalists. UPE traditionally hosts a reception or luncheon for contest participants the day preceding the ACM-ICPC World Finals. The ICPC shall provide space and the basic set up for the UPE business meeting and reception or luncheon at no charge. The basic set up includes chairs, tables, risers, dais, and house microphone. Any other set up or decoration is at UPE expense.

Sponsorship of the Contest

The ICPC Executive Director shall notify contest volunteers in a timely manner of requirements to comply with ICPC sponsoring agreements. Every effort shall be made to preserve sponsor benefits.

Modifying the Policies and Procedures

These Policies and Procedures may only be modified by a 2/3 vote of the ICPC Executive Committee. The current Policies and Procedures shall be posted at the ICPC Web Site.

World Finals Team Roster

Africa and the Middle East

Arab Academy for Science and Technology

Mohamed Taha, Coach
Ahmed ElHabashy
Mostafa Ezzat
Moustafa Hosny

University of Cape Town

James Gain, Coach
Migael Strydom
Tamara von Glehn
Timothy Stranex

Asia

Amirkabir University of Technology

Babak Behsaz, Coach
Hadi Moshayedi
Hossein Azizpour
Mohammed Reza Khani

Bangladesh University of Engineering and Technology

Mohammed Tanvir Irfan, Coach
Istiaque Ahmed
Mohammed Mahmudur Rahman
Sabbir Yousuf Sanny

Bina Nusantara University

Raymondus Kosala, Coach
Andoko Chandra
Andrian Kurniady
Felix Halim

College of Technology, Vietnam National University, Hanoi

The Duy Bui, Coach
Da Phuc Phan
Huy Binh Le
Thi Thuy Trang Tran

East China University of Science and Technology

Yongjun Luo, Coach
Baojing Zuo
Xianjie Lu
Yu Zou

Fudan University

Yonghui Wu, Coach
Wenhui Xing
Yingjie Xu
Zhan Su

Hefei University of Technology

Benzhu Xu, Coach
Yun Deng
Zheng Ruan
Zhenguo Yang

Indian Institute of Technology, Bombay

Abhiram Ranade, Coach
Ajit Kumar Nema
Sangram Raje
Sushant Sachdeva

Indian Institute of Technology, Madras

Narayana Swamy, Coach
Pradhan Prashanth Kumar
Rahul Narayanamangalam Sekar
Shankar Prasad Sastry

Korea Advanced Institute of Science and Technology

Taisook Han, Coach
Heon Jeong
Jin Ho Kim
Kyungyoon Oh

Kyoto University

Ippei Ohbayashi, Coach
Norihiro Katsumaru
Toshiyuki Hanaoka
Yuichi Yoshida

Nanyang Technological University

Kevin Jones, Coach
Ainun Najib
Ardian Poernomo
Bramandia Ramadhana

National Institute of Technology, Trichy

K. Viswanathan Iyer, Coach
Aditya Murthy
Prasanna Sankaranarayanan
Siddharth Gopal

National Taiwan University

Hsueh-I Lu, Coach
Cheng-chiang Tsai
Cheng-yang Tsai
Chun-ju Yang

National University of Defense Technology

Peng Yuxing, Coach
Lai Shiming
Yi Wei
Zhang Zhaoning

Peking University

Wei Guo, Coach
Cheng Wang
Qi Zhang
Zhongxuan Du

World Finals Team Roster

Asia (continued)

Saitama University
Takahiro Koh, Coach
Hiroshi Watabe
Kei Tateno
Masaya Kiwada

Shanghai Jiao Tong University
Yong Yu, Coach
Chang Liu
Chong Liu
Tao Xin

The University of Hong Kong
Joe K.W. Chong, Coach
Kayman K.C. Lui
Kelly S.M. Choi
Stephen K.F. Lai

Tsinghua University
Xiaojun Wu, Coach
Rong Ge
Tiancheng Lou
Weidong Hu

Xiamen University
Defu Zhang, Coach
Chi Zhang
Guangte Xiang
Yu Peng

Zhejiang University
Can Wang, Coach
Guanghao Shen
Yao Guan
Yaoting Liu

Europe

Belarusian State University
Vladimir Kotov, Coach
Mikita Lesnikau
Pavel Irzhavsky
Uladzimir Kerus

Kazakh National University
Bakhyt Matkarimov, Coach
Artem Iglikov
Darkhan Tuyenbayev
Rustem Arzymbetov

Moscow State University
Eugeny Pankratyev, Coach
Egor Kulikov
Mikhail Levin
Pavel Nalivaiko

Seoul National University
Jehee Lee, Coach
Gangwon Jo
Wanyeong Jung
Won-seok Yoo

Sharif University of Technology
Kamran Bavar, Coach
Hamed Ahmadi Nejad
Kian Mirjalali
Mohammed Mahini

The University of Tokyo
Hidetoshi Muta, Coach
Hiroshige Hayashizaki
Koichi Suematsu
Nobuo Araki

University of Science and Technology of China
GuangZhong Sun, Coach
Hongcheng Zhu
Wen Sun
Zhikai Fan

Xidian University
Shuping Zhang, Coach
Genquan Duan
Runming Lu
Yang Wang

Zhongshan (Sun Yat-sen) University
Songshan Guo, Coach
Lei Wang
Yi Wu
Zizhen Zhang

Johannes Kepler Universität Linz
Dominik Hurnaus, Coach
Christian Wirth
Roland Schatz
Thomas Würthinger

KTH - Royal Institute of Technology
Fredrik Niemelä, Coach
Carl Nettelblad
Erik Bernhardsson
Joel Jonsson

National Technical University of Ukraine
Iryna Zhdanova, Coach
Kyrylo Vedenskyi
Oleksandr Rybak
Volodymyr Giginiak

World Finals Team Roster

Europe (continued)

Novosibirsk State University
Tatyana Churina, Coach
Stepan Gatilov
Vladislav Kuzkokov
Vyacheslav Tokarev

Petrozavodsk State University
Denis Vlasov, Coach
Alexey Nikolaevskiy
Denis Denisov
Ilya Nikolaevskiy

St. Petersburg State University
Andrew Lopatin, Coach
Gleb Leonov
Sergey Bankevich
Vitaly Valtman

Stavropol State University
Elena Bondarenko, Coach
Dmitry Edel
Ivan Krasilnikov
Michael Babenko

Universitat Politècnica de Catalunya
Salvador Roura, Coach
Daniel Rodrigo López
Marçal Garolera
Ricardo Martín

University of Wrocław
Krzysztof Lorys, Coach
Jakub Lopuszański
Pawel Gawrychowski
Tomasz Wawrzyniak

Vologda State Pedagogical University
Fyodor Menshikov, Coach
Nikita Rybak
Vyacheslav Trifonov
Yaroslav Muzykantov

Latin America

Benemérita Universidad Autónoma de Puebla
Alfonso Garcés Baéz, Coach
José Manuel Escobar Sánchez
Raúl Flores Muñoz
Rodrigo Burgos Domínguez

Pontifícia Universidade Católica do Rio de Janeiro
Marcus Poggi de Aragão, Coach
Daniel Fleischman
Fabio Dias Moreira
Roberto Pereira Cavalcante

Orel State Technical University
Oleg Sokov, Coach
Dmitry Zhukov
Ilia Shishkov
Mikhail Ershov

Saratov State University
Michael Mirzayanov, Coach
Alexey Klimov
Sergey Nazarov
Vitaly Goldshteyn

St. Petersburg University of IT, Mechanics and Optics
Andrey Stankevich, Coach
Iskander Akishev
Mikhail Dvorkin
Roman Satyukov

Twente University
Eljakim Schrijvers, Coach
Boris de Wilde
Erik-Jan Krijgsman
Kamiel Cornelissen

University of Bucharest
Florin Manea, Coach
Adrian Paul Diaconu
Mircea Bogdan Pasoi
Tiberiu Lucian Florea

Ural State University
Alexander Klepinin, Coach
Denis Musin
Sergey Pupyrev
Vladimir Yakovlev

Warsaw University
Jan Madey, Coach
Filip Wolski
Marcin Pilipczuk
Marek Cygan

Instituto Tecnológico de Aeronautica
Armando Gouveia, Coach
Anderson Aiziro
Felipe Souza
Rafael Daigo Hirama

Universidad Central de Venezuela
Carlos Guia, Coach
Jorge Bernadas
Luis Peña
Román González

World Finals Team Roster

Latin America (continued)

Universidad Centroccidental Lisandro Alvarado

Maria Auxiliadora Perez, Coach
Alejandro Lameda
Carlos Lameda
Jose Nelson Ramirez

Universidad de Chile

Rodrigo Paredes, Coach
Cristian Serpell
Francisco Claude
Matías Toro

Universidade de São Paulo

Carlos Cardonha, Coach
Fabricio Benevides
Guilherme Silveira
Leonardo Facci

Universidad de Buenos Aires

Dario Fischbein, Coach
Alejandro Deymonnaz
Francisco Roslan
Pablo Ariel Heiber

Universidad Tecnologica de la Mixteca

Jorge Arturo Hernandez Peralas, Coach
Aristoteles Federico Nuñez Juarez
Hermes Ojeda Ruiz
Victor Juquila Sanchez Camacho

Universidade Federal do Rio de Janeiro

Tiago Mota, Coach
Debora Silva
Vinícius Santos
Vitor De Mario

North America

California Institute of Technology

Eric Stansifer, Coach
Hwan-seung Yeo
Paul Nelson
Po-Ru Loh

Cornell University

Lars Backstrom, Coach
Anand Bhaskar
Nitin Gupta
Yu Tung Cheng

Harvard University

Robert L. Walton, Coach
Ameya Velingker
Andrew McCollum
Yan Zhang

Mercer University

Andy Digh, Coach
Britt Daniel
David Thomas
John Wright

Rutgers, The State University of New Jersey

Bin Tian, Coach
Adam Gashlin
Joseph Crobak
Marla Slusky

University of Alberta

Piotr Rudnicki, Coach
Kevin Waugh
Steven Soneff
Zachary Friggstad

Carnegie Mellon University

Gregory Kesden, Coach
Kee Tee Lawrence Tan
Nathaniel Bauernfeind
Young Sub Bae

Duke University

Owen Astrachan, Coach
Everett Wetchler
Kshipra Bhawalkar
Peng Shi

Massachusetts Institute of Technology

Martin Rinard, Coach
Brian Jacokes
Eric Price
Hubert Hwang

Northwestern University

Peter Dinda, Coach
Anda Bereczky
Nikola Borisov
Nikolay Valtchanov

Stanford University

Gerald Cain, Coach
Alexander Utter
James Connor
Justin Solomon

University of British Columbia

Man Hon Chan, Coach
Anton Likhtarov
Igor Ostrovsky
Yury Kholondyrev

World Finals Team Roster

North America (continued)

University of Calgary
Denilson Barbosa, Coach
Darko Aleksic
John Zhang
Sean McIntyre

University of Illinois at Urbana-Champaign
Marsha Woodbury, Coach
Jacob Lee
Jesse Beder
Jonathan Ray

University of Nebraska - Lincoln
Charles Riedesel, Coach
Derrick Stolee
Travis Meinders
Yuliy Pisetsky

University of Texas at Austin
Ryan Pai, Coach
Andrey Petrov
Pathikrit Bhowmick
Powei Feng

University of Toronto
Igor Naverniouk, Coach
Frank Pok Man Chu
Mohammad Moharrami
Sean Henderson

University of Wisconsin - Madison
Dieter van Melkebeek, Coach
Brian Byrne
Matthew Elder
Thomas Watson

Virginia Tech
Joseph Gleason, Coach
Cris Kania
Joel Riley
Mike Henry

South Pacific

University of Adelaide
Bradley Alexander, Coach
Alex Flint
Patrick Coleman
Thoai Duy Khang Tran

University of New South Wales
Hossam ElGindy, Coach
Beren Sanders
Clarence Dang
David Greenaway

University of Central Florida
Ali Orooji, Coach
Jobby Johns
Nadeem Mohsin
Walter Mundt

University of Minnesota
Carl Sturtivant, Coach
Alex Dean
Erik Shimshock
Zi Lin

University of North Carolina at Chapel Hill
Kevin Jeffay, Coach
Jared Brothers
Phillip Kelley
Tao Xie

University of Texas at Dallas
Ivor Page, Coach
Jack Lindamood
Matthew Dempsky
Michelle Berger

University of Waterloo
Gordon Cormack, Coach
Malcolm Sharpe
Simon Parent
Tor Myklebust

Vanderbilt University
Larry Dowdy, Coach
Dan Smith
Evan Makowski
Roger Wu

University of Auckland
Michael Dinneen, Coach
Andrew Olsen
Robert Bowmaker
Stephen Merriman



2007 Awards - ICPC Founders Award

The Thirty-first Annual **acm** International Collegiate
Programming Contest
sponsored by **IBM**

—
The ICPC Founders Award

Presented to

Katsuhiko Kakehi
and the
ACM Japan Chapter

Founders of the ICPC
among the
Universities of Japan

—
The ICPC Founders Award
is presented to individuals and institutions that have played
an instrumental role in the growth of the ICPC
for ten or more years.

—
14 March 2007
Tokyo, Japan

The Thirty-first Annual **acm** International Collegiate
Programming Contest
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The ICPC Founders Award

ICPC Japan Honorees

Takehi, Katsuhiko	Waseda University
Aman, Hirohisa	Ehime University
Chikayama, Takashi	The University of Tokyo
Ida, Tetsuo	University of Tsukuba
Ishihata, Kiyoshi	Meiji University
Kamo, Hiroyasu	Nara Women's University
Kobayashi, Kaname	Kanazawa Institute of Technology
Kubota, Koichi	Chuo University
Kuno, Yasushi	University of Tsukuba
Mima, Yoshiaki	Future University - Hakodate
Mirenkov, Nikolay	The University of Aizu
Namiki, Mitaro	Tokyo University of Agriculture and Technology
Nitta, Yoshihisa	Tsuda College
Shibayama, Etsuya	Tokyo Institute of Technology
Tago, Kazuya	Tokyo University of Technology
Takada, Shingo	Keio University
Taura, Kenjiro	The University of Tokyo
Yuasa, Taiichi	Kyoto University

14 March 2007
Tokyo, Japan



2007 Awards - ICPC World Finals Hosts Award

The Thirty-first Annual **acm** International Collegiate
Programming Contest
sponsored by **IBM**

Presented to

**IBM Tokyo
Research Lab**

in appreciation for extending
support and hospitality as

**2007 ACM-ICPC
World Finals
HOST**

14 March 2007
Tokyo, Japan

The Thirty-first Annual **acm** International Collegiate
Programming Contest
sponsored by **IBM**

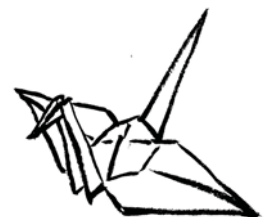
Presented to

**ACM
Japan Chapter**

in appreciation for extending
support and hospitality as

**2007 ACM-ICPC
World Finals
HOST**

14 March 2007
Tokyo, Japan



2007 Awards - ICPC Distinguished International Service Award

The Thirty-first Annual **acm** International Collegiate
Programming Contest
sponsored by **IBM**

The ICPC Distinguished International Service Award

Presented to

IBM

for outstanding service to and steadfast support of the
ICPC Community of 1,756 universities in 82 countries
from 1997 to 2007 and to all of the world's universities.
Specific contributions are

**ICPC Sponsor
1997-2007**

**IBM Media Reaches
1,000,000,000 Circulation**

IBM Academic Initiative

—
The ICPC Distinguished International Service Award
is presented annually to an institution that has played
an instrumental role in the success of the international
educational programs for ten or more years.
—

**14 March 2007
Tokyo, Japan**



2007 Awards - Joseph S. DeBlasi Outstanding Contribution Award

The Thirty-first Annual **acm** International Collegiate
Programming Contest
sponsored by **IBM**

—
**The Joseph S. DeBlasi
Outstanding Contribution Award**

Presented to

Rodney D'Silva
IBM

for outstanding service and accomplishment
in support of ICPC Contests throughout the world
as IBM Technical Representative
and Network Guru 1998-2007.

—
The Joseph S. DeBlasi Award is presented annually
to a person or group who have played an instrumental
role in the success of the ICPC for five or more years.

—
15 March 2007
Tokyo, Japan



Rodney D'Silva



2007 Staff and Volunteers

ICPC Team

Roy Andersson, Sub-contest Manager
Samir Ashoo, Systems PC2
Per Austrin, 2009 World Finals Committee
Osman Ay, World Finals Judge
John Bonomo, World Finals Judge
Bill Booth, CII Chief Editor
Troy Boudreau, Systems PC2
Stephen Bourne, ACM President Emeritus
Corey Carbonara, Digital Media
Carlos Marcelino Casas Cuadrado, On-line Judging
Tomas Cerny, ICPC HQ Services
Don Chamberlin, World Finals Judge
John Clevenger, Director – Systems & ICPC Challenge
James Comer, Associate Director
Marjene Comer, ICPC HQ Services
Tim deBoer, ICPC Challenge Chief Judge
Mattias de Zalenski, 2009 World Finals Committee
Joseph DeBlasi, ICPC Awards Committee
Hans Domjan, Digital Media Production
Jeff Donahoo, ICPC HQ Services Director
Lisa Donahoo, Digital Media Production
David Elizandro, World Finals Judge
Roman Elizarov, CII - Automated Judging
Mats Erixon, 2009 World Finals Committee
Mikael Goldmann, 2009 World Finals Committee
David Hill, Photographer
Ray Holder, ICPC HQ Services
Sharon Humphrey, On-site Registration
Patrick Hynan, Director of Operations
Martin Kacer, World Finals Judge
Aaron Kelley, Volunteer
Ben Kelley, Baylor Steering Committee Chair
Robin Kelley, Volunteer
Derek Kisman, World Finals Judge
Peter Kluit, World Finals Judge
Joel Korpi, ICPC Digital Media Lab Director
Michael Korpi, ICPC Digital Media Producer
Douglas Lane, Systems PC2
Jon Larsson, 2009 World Finals Committee
José Paulo Leal, CII - Porto Contest Systems
Orlando Madrigal, ICPC Registration

Shahriar Manzoor, World Finals Judge
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About ACM Japan Chapter

The ACM Japan Chapter was founded in 1993 to serve ACM members residing in Japan. Each year, it takes an active role in promoting the computer discipline in Japan, including participating in various conferences and symposiums as an "in cooperation with" entity, and Japanese translations of various articles in the Communications of ACM.

One of the largest annual events of ACM Japan is the ICPC Asia Regional Contest held in Japan. Although the regional contest is hosted by a university, it is operated under the auspices of ACM Japan to ensure that the contest is planned and run smoothly.

The first Asia Regional Contest in Japan was held in 1998 in Tokyo and hosted by Waseda University. Since then various universities have hosted the regional contest in various locales:

- 1999 Kyoto University (Kyoto)
- 2000 University of Tsukuba (Tsukuba)
- 2001 Future University - Hakodate (Hakodate)
- 2002 Kanazawa Institute of Technology (Kanazawa)
- 2003 University of Aizu (Aizu-Wakamatsu)
- 2004 Ehime University (Matsuyama)
- 2005 Tokyo University of Technology (Tokyo)
- 2006 Keio University (Yokohama)

As is the case with the global growth in ICPC participation, the number of participants in Japan has also grown, from 33 teams (20 universities) in 1998 to 215 teams (69 universities) in 2006.

The level of the students who have participated in this event has also gone up, and interaction between them during and after the contest is one of the positive feedbacks that ACM Japan has received. One of the results is an ICPC alumni group that now holds online practice sessions for students that are interested in ICPC and programming.

ACM Japan plans to continue building on its experience with ICPC, to help students improve themselves as they represent the future.



About IBM Tokyo Research Laboratory

IBM Tokyo Research Laboratory (TRL) opened its doors in 1982 as the Japan Science Institute (JSI) in Sanbancho, Tokyo. In 1993 TRL moved to Yamato, Kanagawa. As IBM's first research laboratory in Asia, TRL is a member of IBM Research, with more than 3,000 researchers at locations including Yorktown Heights, San Jose, and Austin in the United States, and in Switzerland, Israel, China, India, and Japan around the world. About 180 researchers in TRL play important roles in meeting the challenge of contributing to society and to IBM's success through research.

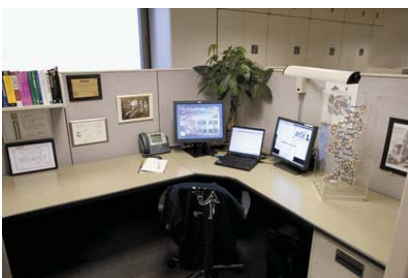
TRL's mission as a member of IBM Research is to produce innovative scientific results and engineering breakthroughs shared in international journals and conferences, to contribute to IBM's products and services, and patent filings and other intellectual property. Our main research areas are microdevices, systems, distributed computing, software engineering, human computer interaction, security and privacy, analytics and optimization, services sciences, and embedded systems.

TRL has been a leading research laboratory in the IT industry and celebrates its 25th anniversary this year. TRL's major research accomplishments so far include:

- ▲ Java Just-In-Time Compiler (used on almost all of IBM's Java platforms)
- ▲ HDD Active Protection System (used by ThinkPad)
- ▲ Web Services Security (standardized as WS-Security at OASIS, the Organization for the Advancement of Structured Information Standards)
- ▲ Easy Web Browsing (a solution to the digital divide problem)

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Programming Contest Central – visit ibm.com/university/students/highschool/

Promotes opportunities to learn information technology and computer science for high school students and provides resources for high school programming contests – how to run your own, links to other contests, etc.

Curriculum consultation: Areas to consider

- ▲ Programming: Eclipse or Rational Application Developer as an IDE
- ▲ Introductory Programming: Java
- ▲ Software Engineering, Methodology, or OO Design: Rational modeling tools for labs
- ▲ Database: Derby, Cloudscape and DB2
- ▲ Operating Systems: Linux
- ▲ Knowledge Management: Lotus products and tools

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Useful Japanese Phrases

Students in Japan study the English language for at least three years, and most of them for much longer. You may well encounter Japanese youngsters willing to try out their English conversation abilities but lacking the courage to talk to a foreigner. Here are several Japanese phrases that might help you start up your conversation.

Ohayo: Good morning. Used early in the morning. "Ohayo gozaimasu" is more formal.
Kon-nichiwa: Good morning/afternoon. Usually used from around ten till sunset.
Kombanwa: Good evening.
Sayonara: Good bye.
Mata Ashita: See you again tomorrow. "Mata" means "again" and "ashita" means "tomorrow".

Arigato: Thank you. A more formal form is "Arigato gozaimasu."
Oishii/Umai: Tastes good. "Umai" is an informal male locution.
Gomennasai; Sumimasen: Excuse me.

XXX-san: Mr./Ms. XXX. Japanese use family names rather than given names even in informal situations. Like English, "san" is also used with common nouns, as in "untenshu-san" meaning "Mr. Driver".
XXX-sensei: Mr./Ms./Dr./Prof. XXX. Used for persons of learned professions.

Numbers

Itchy = 1	Knee = 2	Sun = 3	Yon (or She) = 4	Go = 5
Rock = 6	Nana (or Shichi) = 7	Hatch = 8	Cue = 9	Jew = 10
Hyaku = 100	Sen = 1,000	Man = 10,000		

"**Knee jew sun man rock sen yen**" means $23 \times 10000 + 6 \times 1000 = 236,000$ JPY.

Numerals are almost always followed by a unit. For example, "three tickets" are "**kippu sun my.**"

How Japanese Words are Expressed in Roman Characters

You can often find signs with names of places or stations expressed in Roman characters. Pronunciation of Japanese words is similar in sound to English words whenever possible. However, sometimes, reading them as English words results in pronunciation quite different from Japanese. Also, their spelling may not be the same as shown on your maps.

Here are some hints to solve the problems:

- ▲ A bar on a vowel means that it is a long vowel. Thus, "ā" is pronounced as "ah".
- ▲ Some vowels are not pronounced as they are in English.
 - "a": Short "ah" as the sound of "cut", not as that of "say" nor "cat".
 - "i": Short "ee", not as "eye".
 - "u": Short "oo", not as the vowel in "sun".
- ▲ The following pairs are interchangeably used for the same pronunciation:
Si/Shi, Zi/ji, Hu/Fu, Sya/Sha, Zya/Ja, Ti/Chi, Tu/Tsu, Tya/Cha.
The latter of the pairs is probably closer to the actual sound.

Images of Japan 1



Kamakura Great Buddha



Bunraku



Yakushiji Temple



Kinkakuji Temple



Kid's Snow Dome



Maiko



Himeji Castle



Kabuki



Koinobori Streamer

All pictures (but Tea & Sweet and Hanabi) by courtesy of Japan National Tourist Organization

Images of Japan 2



Shinjuku



Tea & Sweet



Sapporo Snow Festival



Fukagawa Festival



Sumo



Seto Ohashi



Hanabi



Bullet Train