The Department of Computing Science at the University of Alberta, Edmonton, Alberta... is honored to be the host for the ACM-ICPC World Finals. We are delighted to have you join us in beautiful Banff, Alberta. Congratulations to the competitors for earning the right to be here. This privilege only comes from years of hard work and a commitment to excel.

Computing Science is a field full of possibilities, and this championship contest is an opportunity for you to show off the breadth and depth of your knowledge. What makes it especially interesting to me is the team aspect, which reflects the reality of how large software projects are designed and built today. The days of the lone programmer working away in isolation are a thing of the past. Computing today is all about teams of people, often multidisciplinary in their composition.

Located in Edmonton, the University of Alberta’s Department of Computing Science encourages creativity and teamwork in all tasks. Whether it be in class, doing assignments, solving research problems, or at play, we recognize the synergy and intellectual stimulus of community interactions. Our department has a great reputation for its collegial atmosphere, approachable professors, and its great research environment.

While you are here for the competition, don’t neglect an important perk of your trip. Enjoy the stunning beauty of Banff, the Canadian Rocky Mountains, and all that Alberta has to offer. Don’t miss out on the Icefields Parkway (“the most scenic drive in the world”) and picturesque Jasper. From Jasper, continue on to Edmonton. Please drop in and visit our Department. Please contact us at rsvp@cs.ualberta.ca and let us know you are coming.

Congratulations again on earning a berth in the World Finals. I wish you the best for the competition and your future careers.

Jonathan Schaeffer,
Chair, Department of Computing Science
University of Alberta

The University of Alberta wishes to thank AET (Alberta Advanced Education and Technology) and iCORE for their World Finals Host Support.
Greetings from ICPC

Welcome to Canada.

Welcome to the 32nd Annual ACM International Collegiate Programming Contest World Finals sponsored by IBM and hosted at The University of Alberta. We have partnered with the UPE Honor Society and ACM to provide you with the finest possible setting here at the Fairmont Banff Springs Hotel.

The ACM-ICPC World Finals culminates the efforts of faculty and students from 1,821 universities in 83 countries that placed 6,700 teams at 213 regional sites worldwide. The top 100 teams have advanced to the World Finals. Congratulations to all of you World Finals teams and to those who have made this possible.

These champions have earned the right to compete for further recognition as they seek medals and the elusive title of the “2008 World Champions.” These World Finalists are here because they have “raced so as to win the prize.”

They have developed extraordinary teamwork, skill, and problem-solving abilities through their determination and special opportunities 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 38 years, ACM has served for 32 years, and Baylor University has served for 25 years. In 11 years of IBM sponsorship, the ICPC expanded to universities in 83 countries on six continents posting 900% growth! As part of her Centenary Celebration, the University of Alberta has brought us to the Canadian Rockies, in beautiful Alberta, for the opportunity of a lifetime.

Here, among beautiful mountains, spacious skies, and heavenly lights, the brightest stars in the ICPC Universe are you, the 2008 World Finalists!

So, on behalf of the ICPC Community, Welcome to Banff!

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

Did you know?
The Computer Poker Research Group at the University of Alberta played world-class poker in the first Man-Machine Poker Challenge.

Greetings from IBM

Congratulations on qualifying for the 32nd 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 Banff, Alberta, Canada, world renowned for its scenic beauty. We hope you will have some time to explore the local sites and experience this aspect of Canadian culture.

All of you have been working hard to prepare for this year’s Finals. The IBM team has also been hard at work enthusiastically planning for these next few days. We are very excited to be sharing this time with you. The ACM/ICPC World Finals is a gathering of the world’s brightest young programmers, and you should be very proud to be in this group. We look forward to meeting each and every one of you at the many 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 Wednesday.

IBM and ACM volunteers have been busy preparing an exciting 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 (Sunday evening) – After you register and get your badge, come and join us for some food and mingling.
• IBM CyberCafe (Sunday through Tuesday evenings) – This is the place to be each evening to check your email, play games, enjoy snacks, and hang out with new friends. The CyberCafe technology showcase gives you a look at leading edge, emerging technologies from IBM, and a chance to speak with IBMers from research, software development, university relations, as well as recruiting. Also included will be some especially interesting demonstrations assembled by our host, the University of Alberta.
• IBM Tech Trek (Monday) – Explorations into new technologies, presented by IBM experts.
• Celebration! (Wednesday) – I don’t want to spoil the surprise of the post-contest celebration event, hosted by IBM. I’ll just say that you WILL want to be there!

The World Finals are 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

Banff, Alberta, Canada | April 6-10, 2008
Message from the President and Vice-Chancellor

On behalf of the University of Alberta, I am delighted to welcome you all to the “Battle of the Brains”, the 32nd Annual World Finals of the ACM (Association for Computing Machinery) International Collegiate Programming Contest in Banff, Alberta! The University of Alberta and its Computing Science Department are very proud to host this year’s contest, as a part of our Centenary 2008 celebrations.

I wish to convey my sincere congratulations to all one hundred teams for advancing to the World Finals! Each of you place among the top 1% of the world’s finest university students and faculty coaches in the computing sciences and engineering. It takes a great amount of creativity, innovation and teamwork to succeed in an international competition at this level, and wish you all the utmost success in reaching your full potential.

As the University of Alberta celebrates our 100th anniversary, we are drawn to reflect upon our historic past. The Computing Science Department was formed in 1964, and has since transformed from a small, unknown department to one of the largest and the best computing science departments in Canada with an international reputation for excellence. The University of Alberta’s tradition of computing science excellence is continually growing due to the outstanding leadership and tireless efforts of students, staff and faculty.

Because of these talented people, and others across the globe such as all you here today, computing technology changed dramatically and beyond recognition over the years. Your collective and creative forces enrich discovery and innovation, contributing to the latest developments in technology for the benefit of humanity and our global communities.

Please accept my sincere thanks for coming to this year’s competition and sharing in this celebration of the University of Alberta’s 100th year anniversary. I also thank IBM, ACM, and the UPE Honor Society for their great support of this event. In addition, we wish to thank the University of Alberta for serving as host of the 2008 ICPC and UPE wishes to give special thanks to the students, staff, and faculty the University of Alberta’s Computer Science Department for their willingness to take care of all of our contest needs. The ICPC is run by volunteers and we will always be grateful to those who are willing to be of service to this great event.

Best wishes to all of you.

Yours sincerely,

Indira V. Samarasekera, O.C.
President and Vice-Chancellor

Did you know?

Edmonton is named the “Festival City” because it hosts more than 25 different festivals annually.

Greetings from

University of Alberta

Indira V. Samarasekera, O.C.
President and Vice-Chancellor

University of Alberta

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Indira V. Samarasekera, O.C.
President and Vice-Chancellor

Greetings from

Upsilon Pi Epsilon

Honor Society for the Computing & Information Disciplines

On behalf of Upsilon Pi Epsilon (UPE), I welcome and congratulate you, who represent the 100 teams and their professors who are participants in the 2008 ICPC World Finals here in Banff, Canada. Your participation in the “Olympics of Computing” is a real testament to your dedication to the art of programming and your high standing in the world of the computing and information disciplines. We are all amazed by your talents and capabilities. To get here, you had to go through a very competitive sequence of contests in the countries and regions you represent.

Most of you traveled thousands of kilometers from various corners of the Globe in order to be here in Banff. Each team has one single goal - to win the 2008 World ICPC Finals. Regardless of where you stand at the conclusion of the 2008 ICPC, your presence here alone already signifies your standing as a champion and we in UPE congratulate all of you as champions of the computing world.

We always remain very thankful to IBM and its staff for their continuing support of this event. In addition, we wish to thank the University of Alberta for serving as host of the 2008 ICPC and UPE wishes to give special thanks to the students, staff, and faculty the University of Alberta’s Computer Science Department for their willingness to take care of all of our contest needs. The ICPC is run by volunteers and we will always be grateful to those who are willing to be of service to this great event.

Best wishes to all of you.

Orlando S. Madrigal, Ph.D., Professor Emeritus
Department of Computer Science
California State University, Chico
upe@acm.org
Executive Director
Upsilon Pi Epsilon
Honor Society for the Computing & Information Disciplines

Did you know?

Edmonton is named the “Festival City” because it hosts more than 25 different festivals annually.
Did you know?

Edmonton has a number of popular professional sports teams including the Edmonton Oilers NHL hockey team and the Edmonton Eskimos NFL Football team.
Greetings from Banff, Alberta, Canada

110 Bear Street
Box 1260, Banff, Alberta, Canada T1L 1A1
T 403.762.1207 F 403.762.1260
OFFICE OF THE MAYOR

Welcome to Banff!

On behalf of Council and the Town of Banff, it is with great pleasure to welcome the participants of the ACM - International Collegiate Programming Contest World Finals to our beautiful town. Events such as this play a very important role in our community and we are delighted that you have chosen Banff as the destination to host the finals.

An outstanding setting is only a part of what Banff has to offer visitors. It has a rich history, character and quality of life found nowhere else in the country. From outdoors to opera, there truly is something for everyone. And to top it off, Banff still has the relaxed friendliness distinctive to small towns. I hope that during your time here you will take some time to experience some of the features that make Banff such a special place!

Best wishes for a successful event and an enjoyable stay in our town.

Yours truly,

John Stutz
Mayor

Did you know?
The University of Alberta is located in Alberta’s capital city, Edmonton.

Banff, Alberta, Canada | April 6-10, 2008
Greetings from Government

To all participants,

As Canada’s Minister of Industry and Regional Minister for Alberta, I would like to extend congratulations and warm greetings to all of you who have advanced to the ACM International Collegiate Programming Contest World Finals.

This event brings together many of the best and brightest students in computer science, with teams participating from 100 universities around the globe. It is truly an honour for Alberta, through the work of the University of Alberta, to be hosting such a cutting edge international competition.

Good luck to all participants and my sincere thanks to all of the hardworking volunteers and organizers who have helped ensure the success of this event for all involved.

Sincerely,

The Honourable Jim Prentice, P.C., Q.C., M.P.
Minister of Industry and Regional Minister for Alberta

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Did you know?
The University of Alberta is celebrating its 100th anniversary this year. When founded in 1908, there were 45 students enrolled.
Awards

The Mark Measures Award

The Mark Measures Distinguished Service Award

Presented to Ali Orooji
University of Central Florida

for outstanding service and unflagging devotion
to his many World Finals teams since 1989 and
to the universities of the World for his service as
World Finals Director for four years and
Director of North American Contests since 1998.

The Mark Measures Distinguished Service Award is
presented annually to a volunteer who has played an
instrumental role in the success of the ICPC
for fifteen or more years.

9 April 2008
Banff, Alberta

The Joseph S. DeBlasi Award

Presented to Digital Media Team

Hans Domjan
Michael Korpi - Joel Korpi
David Hill - Lisa Donahoo

for outstanding service and accomplishment
in telling the story of the ACM-ICPC World Finals
through video and still photography
since 1996

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.

9 April 2008
Banff, Alberta

Did you know?
The University of Alberta has an International Student Centre to help international students ease into Canadian society.
CyberCafé

Come to see cool technology demonstrations, and talk to the people from IBM Research and from the University of Alberta, who have helped create these amazing innovations. For example, Bluegrass is an IBM research project exploring the integration of virtual worlds in application contexts like Rational Jazz and Lotus Notes. Play checkers against the world famous Chinook program or try your luck against the world class poker programs developed at the U of A. There will also be a number of computers available for your use, as well as space for you to connect your own laptop.

On Monday morning, IBM presents hot topics like Web 2.0 applications, social networking trends and implications, and more from the cutting edge of innovation. This is an opportunity to hear from the experts and ask questions.

UPE Reception and Business Meeting

Come and meet the individuals who make UPE tick. Volunteers, teams, and guests of the ACM-ICPC World Finals will have a chance to interact, and each team in attendance will be presented with $300. Those teams representing institutions with UPE Chapters will receive an additional $450.

The World Finals

The ACM Programming Contest World Finals will pit teams from six different continents against each other in one-in-a-lifetime event. Guided by knowledge, intuition, skill, and some luck, these teams will compete to be the next World Champion. Come watch the challenge unfold!

The World Finals Celebration Sponsored by IBM

Following the ICPC Awards ceremony, this is one event you don’t want to miss. Where is it, and what is it? It’s a surprise, but you are sure to have a great time!
<table>
<thead>
<tr>
<th>Schedule of Events</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sunday, April 6</strong> - Welcome - Banff Springs Hotel</td>
</tr>
<tr>
<td><strong>Monday, April 7</strong> - IBM Tech Trek - RCDS, CLS, Excursions</td>
</tr>
<tr>
<td><strong>Tuesday, April 8</strong> - Opening Session, Practice, Host Events</td>
</tr>
<tr>
<td><strong>Wednesday, April 9</strong> - World Finals, Awards, Celebration</td>
</tr>
</tbody>
</table>

### Sunday, April 6 - Welcome - Banff Springs Hotel

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM - 8:30 AM</td>
<td>RCD/CLI Registration &amp; Breakfast</td>
</tr>
<tr>
<td>8:00 AM - Noon</td>
<td>RCD/CLI Symposium I</td>
</tr>
<tr>
<td>Noon - 1:30 PM</td>
<td>Volunteer Appreciation Luncheon</td>
</tr>
<tr>
<td>1:45 PM - 5:00 PM</td>
<td>RCD/CLI Symposium II</td>
</tr>
<tr>
<td>5:00 PM - 9:30 PM</td>
<td>Team Registration</td>
</tr>
<tr>
<td>6:00 PM - 9:00 PM</td>
<td>IBM Welcomes the Attendees - come and go</td>
</tr>
<tr>
<td>8:00 PM - 11:30 PM</td>
<td>CyberCafé - come and go</td>
</tr>
</tbody>
</table>

### Monday, April 7 - IBM Tech Trek - RCDS, CLS, Excursions

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM - 8:30 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>6:30 AM - 8:00 AM</td>
<td>RCD/CLIStaff Breakfast</td>
</tr>
<tr>
<td>8:00 AM - Noon</td>
<td>Regional Contest Directors' Business Meeting</td>
</tr>
<tr>
<td>8:00 AM - 10:30 AM</td>
<td>RCD/CLISymposia III</td>
</tr>
<tr>
<td>9:00 AM - 11:30 AM</td>
<td>IBM TechTrek Program</td>
</tr>
<tr>
<td>11:30 AM - 5:30 PM</td>
<td>Excursion w/lunch</td>
</tr>
<tr>
<td>6:00 PM - 8:00 PM</td>
<td>Dinner</td>
</tr>
<tr>
<td>8:00 PM - 11:30 PM</td>
<td>CyberCafé - come and go</td>
</tr>
</tbody>
</table>

### Tuesday, April 8 - Opening Session, Practice, Host Events

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM - 8:30 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>9:00 AM - 10:30 AM</td>
<td>Opening Ceremony</td>
</tr>
<tr>
<td>10:30 AM - Noon</td>
<td>Practice Session I</td>
</tr>
<tr>
<td>Noon - 1:00 PM</td>
<td>Host Luncheon</td>
</tr>
<tr>
<td>1:00 PM - 1:30 AM</td>
<td>Answers to Practice Session I</td>
</tr>
<tr>
<td>1:30 PM - 2:30 PM</td>
<td>Practice Session II</td>
</tr>
<tr>
<td>2:30 PM - 5:30 PM</td>
<td>Activities</td>
</tr>
<tr>
<td>6:00 PM - 8:00 PM</td>
<td>UPE Dinner</td>
</tr>
<tr>
<td>8:00 PM - 11:30 PM</td>
<td>CyberCafé - come and go</td>
</tr>
</tbody>
</table>

### Wednesday, April 9 - World Finals, Awards, Celebration

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM - 7:45 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>7:45 AM - 8:00 AM</td>
<td>Prepare to enter the contest area</td>
</tr>
<tr>
<td>8:00 AM - 1:30 PM</td>
<td>ACM-ICPC World Finals</td>
</tr>
<tr>
<td>8:00 AM - 4:00 PM</td>
<td>CyberCafé - watch the World Finals</td>
</tr>
<tr>
<td>9:00 AM - 11:00 AM</td>
<td>Banff Community High School program</td>
</tr>
<tr>
<td>10:00 AM - 10:45 AM</td>
<td>Coaches meet with the Executive Director</td>
</tr>
<tr>
<td>11:00 AM - Noon</td>
<td>Coaches Appreciation reception</td>
</tr>
<tr>
<td>2:00 PM - 2:30 PM</td>
<td>Coaches Briefing</td>
</tr>
<tr>
<td>5:30 PM - 6:30 PM</td>
<td>ACM-ICPC World Finals</td>
</tr>
<tr>
<td>7:00 PM-11:00 PM</td>
<td>World Finals Celebration</td>
</tr>
</tbody>
</table>

### Did you know?

The Department of Computing Science at the University of Alberta began in 1964, but computing was a focus at the university beginning in 1957.
universities hosting regional competitions that advance teams to the ACM-ICPC World Finals. Since IBM became a sponsor in 1997, the contest has increased by a factor of seven. Participation has grown to involve several tens of thousands of the finest students and faculty in computing disciplines at 1821 universities in 83 countries that competed at 213 sites for a spots in the World Finals.

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

Regional contests are held from September to December. Once again this year, the contest grew with 213 sites hosting competitions. We had 6,700 teams vie to be part of the now 100 teams competing to be World Finals Champions.

This year the University of Alberta is hosting the World Finals in beautiful Banff, Alberta. The University, located in Alberta’s capital city, Edmonton, is excited to be able to host so many bright students in a place as wonderful as the Fairmont Banff Springs Hotel.

2008 is a year full of milestones for the University, not only is it hosting this prestigious event, but it is also their 100th anniversary. In honour of the anniversary, ICPC decided to increase the number of teams from the originally scheduled 95 teams to 100 teams. Both the U of A and ICPC are excited about this growth and the opportunities it presents to so many deserving student teams.

For well-versed science students, some 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.

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. Quite simply it is the oldest, largest and most prestigious programming contest in the world.

Teams 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.

The ICPC traces its roots to a competition held in 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 computing 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 1989, the contest has expanded into a global network of universities hosting regional competitions that advance teams to the ACM-ICPC World Finals.

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The AI program in the Department of Computing Science is one of the most sought after programs in North America. The Department of Computing Science has 47 faculty and 196 graduate students. To find out who they are, go to www.cs.ualberta.ca/people.

About the World Finals

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ACM International Collegiate Programming Contest
Team Participation Since 1989

<table>
<thead>
<tr>
<th>Year</th>
<th>Teams</th>
<th>Universities</th>
<th>Sites</th>
<th>Teams</th>
<th>Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1989</td>
<td>400*</td>
<td>308*</td>
<td>12</td>
<td>25</td>
<td>SigBoard, Apple</td>
</tr>
<tr>
<td>1990</td>
<td>459</td>
<td>354</td>
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Not included are hundreds of teams who competed in preliminary contests to qualify. More than 300 teams were turned away in 2004 due to lack of space. * denotes small discrepancies in old records are interpolated.
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: John Hopkins University
- 1985: Stanford University
- 1986: Caltech University
- 1987: University of California, Los Angeles
- 1988: University of Otago, New Zealand
- 1989: Stanford University
- 1990: Melbourne University, Australia
- 1991: Harvard University
- 1992: University of Waterloo
- 1993: Albert-Ludwigs-Universität Freiburg
- 1994: University of California, Berkeley
- 1995: University of Toronto
- 1996: University of Waterloo
- 1997: University of Waterloo
- 1998: University of Waterloo
- 1999: University of Waterloo
- 2000: University of Waterloo
- 2001: University of Waterloo
- 2002: University of Waterloo
- 2003: University of Waterloo
- 2004: University of Waterloo
- 2005: University of Waterloo
- 2006: University of Waterloo
- 2007: University of Waterloo

Recent Gold Medal Winners in Order of Finish

2007
- Warsaw University (Warsaw, Poland)
- Tsinghua University (Tsinghua, China)
- St. Petersburg University of IT, Mechanics & Optics (St. Petersburg, Russia)
- Massachusetts Institute of Technology (Boston, USA)

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 & Optics (St. Petersburg, Russia)
- University of Waterloo (Waterloo, Canada)

2004
- St. Petersburg Institute of Fine Mechanics & Optics (St. Petersburg, Russia)
- KTH Royal Institute of Technology (Stockholm, Sweden)
- Belarusian State University (Minsk, Belarus)
- Perm State University (Perm, Russia)

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 the 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.

Did you know?
The solving of checkers, accomplished by Jonathan Schaeffer, Computing Science Department Chair, was considered one of the top 10 discoveries of 2007.
Policies and Procedures - continued

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 fewer 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 r. Boucher, 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, the ICPC Executive Director, the ICPC Secretary, and at least one faculty or staff member from another university.

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Did you know?
West Edmonton Mall is the world’s largest shopping centre with shops, services and entertainment activities all under one roof.

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Did you know?
West Edmonton Mall is the world’s largest shopping centre with shops, services and entertainment activities all under one roof.
That the Edmonton has a vibrant arts and entertainment industry. Edmonton was named Canada’s Cultural Capital for 2007.

Did you know?

Policies and Procedures - continued

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 Finals. 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.

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 of each year. The winning team from each Regional Contest advances to the ACM International Collegiate Programming Contest World Finals, 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 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 more than two previous World Finals.

World Finals Team

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.

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 a 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 stationary 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.

Banff, Alberta, Canada | April 6-10, 2008
always something to do on campus.

There is more to the University of Alberta than academics; with champion athletic teams, intramural sports, and a wide variety of social clubs there is always something to do on campus.

Did you know?

ACM-ICPC

World Finals Rules

World Finals 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 academics, industry, and government.

The UPE Computer Science Honor Society provides $300 to each team attending the UPE Business Meeting to receive the UPE funds. The UPE provides $1,000 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. Additional Bronze Medals may be awarded.

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 South Pacific Champions, the Asian Champions, and the Africa & Middle East Champions will be presented plaques.

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.

Conduct of the World 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 contest officials to contestants and other communications to contestants.

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.

The World Champion team will be awarded $10,000. Each of the other three Gold Medal teams will be awarded $8,000. 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.

Contestant Conduct in the Contest Area and During the World Finals

DONOT TOUCH ANYTHING at the team workstations until as directed by the Finals Director.

Contestants are not to converse with anyone except members of their teams 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 test materials, or distracting behavior.

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 judge, the Director of Judging is responsible for determining the winners of the World Finals. He or she is 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.

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Regal and intimidating the average male big horned sheep stands between 5 and 6 feet tall. If you are lucky you may see one foraging at the road side.
Enjoy them from a distance. Very dangerous in reality. And cuddly to look at but common resident of Banff National Park. Cute animals, they are all wild. The majestic black bear is a commonly seen resident of Banff, Alberta, Canada. Get bit… hard! Don’t feed the animals. They will convince you to share your lunch and you’ll be fooled. They will convince you to share your lunch and you’ll be fooled. The chipmunk is another common resident of the park. These little guys are pretty approachable, but don’t be fooled. They will convince you to share your lunch and you’ll get bit… hard! Don’t feed the animals, they are all wild.

Did you know?

Through www.cs.ualberta.ca the Department of Computing Science has a chatroom available for potential students to ask questions about our programs.

Banff, Alberta, Canada | April 6-10, 2008
Did you know?

There is a shortage of qualified computing professionals in North America.

Banff, Alberta, Canada | April 6-10, 2008
World Finals Roster

Cornell University
Lars Backstrom, Coach
Anand Bhaskar, Contestant
Hooyeon Lee, Contestant
Wei-Lung Tseng, Contestant

Duke University
Owen Astrachan, Coach
Andrew Waterman, Contestant
Jason Bosla, Contestant
Matthew Rognlie, Contestant

Georgia Institute of Technology
David Van Breeke, Coach
Chinmay Karande, Contestant
David Foster, Contestant
Marc-Antoine Pare, Contestant

Illinois State University
Mary Goodwin, Coach
Jason Eds, Contestant
Kelly Duran, Contestant
Nathan Fleming, Contestant

Iowa State University
Simanta Mitra, Coach
Kirk Sykora, Contestant
Michael Seibert, Contestant
Pavel Kuznetz, Contestant

Massachusetts Institute of Technology
Martin Rinaud, Coach
Andrew Lutomirski, Contestant
Bohua Zhan, Contestant
XuanCheng Shao, Contestant

Michigan Technological University
David Piplavorski, Coach
Milosa Lyamska, Contestant
Nicholas Smolinske, Contestant
Ryan Richards, Contestant

Northwestern University
Peter Dindo, Coach
Anda Bereczky, Contestant
Nikola Borsos, Contestant
Nikoly Valchiano, Contestant

Princeton University
Indraneel Mulder, Coach
Amirali Shani, Contestant
David Costanzo, Contestant
John Fardon, Contestant

Simon Fraser University
Bradley Bart, Coach
Adi Himawan, Contestant
Bo Chen, Contestant
Simon Lo, Contestant

Stanford University
Gerald Caire, Coach
Andy Nguyen, Contestant
Chen Gu, Contestant
Meng-Hee Fan, Contestant

University of Alberta
Martin Muehlen, Coach
Devin Doucette, Contestant
Robert Waigh, Contestant
Steven Stolle, Contestant

University of British Columbia
Kathleen Sherwood, Coach
Anton Lichtenberg, Contestant
Heny Wong, Contestant
Nhan Nguyen, Contestant

University of Calgary
Jim Parker, Coach
Darwin Alkic, Contestant
Sean McIntryre, Contestant
Tom Flanagan, Contestant

University of Central Florida
Ali Ozu, Coach
Jeremy Elbourn, Contestant
Nadereh Mohsin, Contestant
Stephen Fulwider, Contestant

University of Colorado at Boulder
Andrew Kiss, Coach
Brianna Sampson, Contestant
Joshua Hartman, Contestant
Moori Palno, Contestant

University of Illinois at Urbana-Champaign
Marsha Woodbury, Coach
Amin Adams, Contestant
Jacob Lee, Contestant
Pichayot Supaphan, Contestant

University of Illinois at Urbana-Champaign
Manu Woodbury, Coach
Amin Adams, Contestant
Jacob Lee, Contestant
Pichayot Supaphan, Contestant

University of Iowa
Mary Goodwin, Coach
Jared Cassady, Contestant
Ryan Neville, Contestant

University of Kansas
Richard Kinney, Coach
Barbara Knowles, Contestant
TaihNone, Contestant

University of Kansas
Richard Kinney, Coach
Barbara Knowles, Contestant
TaihNone, Contestant

University of Maryland
Sandeep Biswas, Coach
Kumar Verma, Contestant
Venkat Reddy, Contestant

University of Massachusetts
Ben Breech, Coach
Ben Karel, Contestant
Matthew Grieder, Contestant
William Lynch, Contestant

University of Massachusetts
Ben Breech, Coach
Ben Karel, Contestant
Matthew Grieder, Contestant
William Lynch, Contestant

University of North Texas
Ryan Garlick, Coach
Hector Cuellar, Contestant
Joh Rizzo, Contestant
Robert Burke, Contestant

University of Saskatchewan
Christopher Dutschyn, Coach
Christoph Dittmann, Contestant
K.C. Cintari, Coach
Travis Cadey, Contestant

University of South Dakota
Matthew Dusen, Coach
Chad Dusen, Contestant
Chad Dusen, Contestant

University of Texas at Austin
Ryan Pai, Coach
Andrey Petrov, Contestant
David Wohler, Contestant
Pathikrit Bhosnava, Contestant

University of Wisconsin - Madison
Deter van Mellebreek, Coach
Chunsoong Wng, Contestant
David Malee, Contestant
Jason Malinowski, Contestant

South Pacific

Griffith University
Team Name: The Toclae
Andrew Rock, Coach
Katie McLaughlin, Contestant
Michael McMullen, Contestant
Nicholas Dahm, Contestant

University of Auckland
Team Name: Thursday
Michael Dinnere, Coach
Heather Macneth, Contestant
Matthew Garland, Contestant
Matthew Steel, Contestant

Did you know?
The Department of Computing Science has 12 different research groups. Check them out at www.cs.ualberta.ca/research.
The Department of Computing Science at the U of A has strong ties to industry including computer games companies BioWare and Electronic Arts.

Did you know?

2008 World Finals

Staff and Volunteers

ICPC Team

Roman Aberkov, ICPC Challenge 2009 Team
Roy Andersson, Sub-contest Manager
Samir Ashoo, Systems - PC^2
Bing (Alex) Yin, ICPC HQ Services
Angela Wu, ICPC Registration
Stanley Wileman, World Finals Judge
Ria van Ouwerkerk, ICPC Secretary
David Sturgill, ICPC Challenge Judge
Amanda Sturgill, ICPC Events
Brian Sitton, Systems and Testing Manager
Fernando Silva, CII – Porto Contest Systems
Matthias Ruhl, World Finals Judge
Robert Roos, World Finals Judge
Ivan Romanov, ICPC Challenge 2009 Team
Miguel A. Revilla, ICPC Problem Archivist
William Boudreau, Systems - PC^2
Banff, Alberta, Canada
April 6-10, 2008
The University of Alberta has earned the reputation as being one of the best universities in Canada based on our strengths in teaching, research, services, and athletics.

Did you know?

The oil and gas industry is a vital part of the Alberta Economy. It is not unusual to see a pump placed in the middle of a farmer's field.
Summer in the city of Edmonton. The river valley provides residents with unlimited recreational opportunities.

The University of Alberta wishes to thank everyone who contributed to make this event a success. A special thank you goes to AET and iCORE for their financial support.
IBM University Programs at a Glance

IBM’s Academic Initiative is an innovative, global program to collaborate with educators in teaching students the open standards skills necessary to compete and keep pace with changes in the ever-changing IT workplace and to prepare them for the jobs of tomorrow. This initiative offers a whole range of technology education benefits that can be scaled to meet the goals of most educational institutions, ranging from large research universities to community colleges and vocational schools. IBM will work with schools that support open standards and seek to use open source and IBM technologies for teaching purposes, both directly and virtually via the Web.

The Academic Initiative includes an online portal that provides access to software, hardware, training and course materials, most at no charge. Through the web site, IBM offers hundreds of resources for integration into college curricula to help teach students how to master the fast-growing market of open technologies. Examples of IBM products and resources include:

- Download access to a comprehensive set of IBM middleware and tools
- No-cost training for faculty on tools, middleware and technology
- Education resources ranging from product tutorials and skill development courses to publications with detailed integration guidelines; advanced technology topics and training to complete courses-in-a-box, with instructor and student guides, hands-on labs exercises an exams
- Support resources including discounts on IBM certification exams, e-mail-based technical support, newsletters, tutorials and articles, forums and much more
- Consultative assistance with the development of course content
- Access to IBM alphaWorks (www.ibm.com/alphaworks/) and IBM developerWorks (www.ibm.com/developerworks/), free resources for developers, administrators, architects, designers and testers
- Online education, hands-on labs, technical briefings, guest lectures and web events IBM is interested in ensuring that colleges and universities produce technical professionals that graduate with open standards skills necessary to compete and keep pace with changes in the ever-changing I/T workplace and to prepare them for the jobs of tomorrow.

One of the Academic Initiative’s key benefits is to provide training and consulting services to faculty who meet specific prerequisites. Our highly skilled team of IT industry consultants works closely with professors and teaching assistants to provide skills transfer on IBM open standards technologies. The technical training and support resources include:

- Remote access to IBM hardware, as well as discounts on select IBM servers
- Education resources ranging from product tutorials and skill development courses to publications with detailed integration guidelines; advanced technology topics and training to complete courses-in-a-box, with instructor and student guides, hands-on labs exercises an exams
- Support resources including discounts on IBM certification exams, e-mail-based technical support, newsletters, tutorials and articles, forums and much more
- Consultative assistance with the development of course content
- Access to IBM alphaWorks (www.ibm.com/alphaworks/) and IBM developerWorks (www.ibm.com/developerworks/), free resources for developers, administrators, architects, designers and testers
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For more information, please visit the Web site today (ibm.com/university/academicinitiative), and sign up for the free benefits we have to offer - it only takes a few seconds to join.

Other IBM University Relations Associated Programs

- Shared University Research awards (SUR): The IBM Shared University Research (SUR) Awards is a worldwide program that awards equipment to promote research in areas of mutual value and interest to IBM and universities. This program strives to connect the research and researchers at universities with personnel in IBM in organizations such as IBM Research, IBM Life Sciences, IBM Global Services and our development and product labs.
- Faculty awards: The IBM Faculty Awards is a competitive worldwide program intended to foster collaboration between researchers at leading universities worldwide and those in IBM research, development and services organizations, and to promote coursework and curriculum innovation to stimulate growth in disciplines and geographies that are strategic to IBM.
- Ph.D. Fellowship awards: The IBM Ph.D. Fellowship Awards is an annual, competitive worldwide program that honors exceptional Ph.D. students in an array of focus areas of interest to IBM and fundamental to innovation. IBM Ph.D. Fellowships are awarded to full-time Ph.D. students nominated by their faculty advisor.
- Open Collaborative Research awards: IBM Open Collaborative Research (OCR) program encourages computer scientists to develop open-source code that will improve the quality of software applications for industry, government and community-based organizations.
- Innovation Awards: The IBM Innovation Awards is an international award competition designed to encourage proposals focused on teaching, research, or community building around key technologies. Since 2003, IBM has sponsored programs to increase the use of open source and open standards-based tools for academic curricula and research.
- World Community Grids: World Community Grid’s mission is to create the largest public computing grid benefiting humanity. Our work is built on the belief that technological innovation combined with visionary scientific research and large-scale volunteerism can change our world for the better. Our success depends on individuals – like you – collectively contributing your unused computer time y time to this not-for-profit endeavor.
- Centers for Advanced Studies (CAS): Facilitate the exchange of academic research knowledge and real world industry challenges towards enhancing IBM products, processes & services. CAS, with 22 locations around the world, builds and fosters relationships among researchers, funding agencies, IBM, and customers. Visit www.ibm.com/cas for more information.