CALIFORNIA STATE UNIVERSITY
CHANNEL ISLANDS

http://www.csuci.edu/ira/index.htm

Application
Instructionally Related Activities Funds Request
2009-2010 Academic Year
DEADLINE: Fall and Academic Year 3/15/09
Spring 10/15/10

Applications must first be sent to the appropriate program chair. Chairs will the recommend and route them to the Dean's Office for review and authorization. The Dean's Office will then forward them to the IRA Committee for consideration.

Activity Title: ACM International Intercollegiate Programming Contest
Project Sponsor/Staff (Name/Phone): **Prof. AJ Bieszczad, x2773**
Activity/Event Date(s): **November 2009**
Date Funding Needed By: **June 2009**
**Please Note that for Fall Requests the earliest that you will be notified of funding availability will be early June 2008 and for Spring Requests early January 2009.

Please check if any of the following apply to your IRA:
□ Equipment Purchase   □ Field Trip
□ Event   □ Participant data collection for public
□ IT Requirements   dissemination, i.e. interviews/surveys that
□ International Travel   result is a journal/poster session/newsletter
□ Space/OPC Requirements   □ Risk Management Consultation
□ Infrastructure/Remodel   □ Late Submission (Passed Deadlines: **Fall 3/15,**
x Other Programming Contest   **Spring 10/15)**

Previously Funded: **x YES** □ NO   Yes, Request # _____

Does your proposal require IRB (Institutional Review Board) approval: □Yes   **x No**

Assessment submitted for previously Funded Activity: **x YES** □NO

Academic Program or Center Name and Budget Code: **770-COMPUTER SCIENCE**

Date of Submission: **MARCH 13th, 2009**

Amount Requested: **$ 2500.00**
(Should match item 2. E. on page 4)

Estimated Number of Students Participating: **15**

Conditions and Considerations

Equipment Purchase-If requesting large equipment, Project Sponsor must show proof of correspondence with OPC Administration. In addition, all other purchases must follow Procurement Guidelines

Events-Attach copy of Events and Facilities Use Request Form (Public Folders-Events & Facilities folder) Consider time frame for set-up and take down.

Participant Data Collection for Public Dissemination-If Project Sponsor proposes to conduct research with human participants then it may be subject to IRB (Institutional Review Board for the Protection of Human Subjects) review. It is the Project Sponsor's responsibility to inquire with the IRB **prior** to IRA application submission to determine if the project is exempt from IRB review so that funding is not delayed. Please indicate on the cover page if your project is exempt from IRB review.

Field Trip-If approved, Identified Risks of Participation and Release Agreement must be submitted for each student to the Program Office (Public Folders-HR Forms).

IT Requirements-Requires proof of correspondence and approval from IT Administration

International Travel-Requires International Travel application be submitted to Center for International Affairs.

Risk Management Consultation-Requires proof of correspondence with Risk Management.

Space/OPC Requirements, Infrastructure/Remodel-Requires proof of correspondence with OPC Administration .

Late Submission (Deadlines: Fall 3/14, Spring 10/15)-Requires explanation for emergency funding.

Fiscal Management: Project Sponsor's program will be responsible for all costs incurred over and above what is funded through the IRA award and will be responsible for seeing that any revenue that is intended to offset the amount of the IRA award is transferred accordingly.

Requirements and Signatures

Please provide the following in your application:

1. **Brief Activity Description.** Describe the activity and its relationship to the educational objectives of the students' program or major.

   The students will participate in an annual, internationally recognized programming contest sponsored by Association for Computing Machinery (ACM), IBM, and Google that involves over 1800 universities from around the world sending over 6000 teams to numerous regional contest. Our university belongs to the Southern California region. The students compete against peers from various institutions of higher education including CalTech, USC, all Southern California UC and CSU campuses, numerous private institutions as well as some of the best community colleges. In addition to improving their skills as computer programmers, the event allows our students to expand their horizons beyond the walls of the Computer Science Program, and the CSUCI.

   In the past we sent 3-5 teams to the contest. Each team has three members, who collaboratively solve programming problems using one computer.

2. **Relation to IRA to Course Offerings.** All IRAs must be integrally related to the formal instructional offerings of the University and must be associated with scheduled credit courses. Please list all classes that relate to the program proposed.

   Programming is a fundamental skill that is taught in numerous Computer Science courses: COMP105 Introduction to Computer Science and Programming, COMP150 Introduction to Object-Oriented Programming, COMP151 Algorithms and Data Structures, COMP232 Programming Languages, COMP350 Software Engineering, COMP351 Distibuted Computing, COMP450 Advanced Object-Oriented Programming, and many others that have smaller or larger programming components.

   The contest is a competition between teams of three students that have to share one computer trying to solve six difficult problems in a five-hour session. The teams have to practice for several weeks to prepare for the event. For that, the eligible students enroll in COMP450 Advanced Object-Oriented Programming, and some may participate through COMP497 Directed Studies (e.g., if participating second time).

   Through this activity, the students exercise not only programming but also interpersonal skills working as members of a competing team. Teamwork is an extremely important aspect of the computer programming profession, and the industry requires that these professionals have excellent teamwork expertise.

3. **Activity Assessment.** Describe the assessment process and measures that the program will use to determine if it has attained its educational goals. **Please note a report will be due at the end of the semester.**

   The students will compete against teams from other Southern California universities, so we will be able to compare how do we do in comparison with

other institutions. Especially interesting is comparison with other campuses of CSU. We have been improving every year and we have gained a competitive position with best schools from the region. We have also become a recognizable landmark at the contest, so the teams are good ambassadors for CSUCI.

Please see:

http://www.cs.csuci.edu/cms/index.php?page=acm-2008

for the last year, and for the history of the six years of our participation.

Student interpersonal skills should help them improve the quality of their work in classes that require teamwork such as COMP350 Software Engineering.

In the past, the contest provided a vehicle for improving students programming skills. Many of them were solving problems of substantial difficulty for the first time. The students learned a lot. One can easily see a difference that the practice makes in higher level classes.

Some quotes from the students evaluations of the contest preparatory class:

> "I learned more from this class than all of my other classes this far. Not only was this class educational but fun".

> "This class proved excellent for actually learning how to implement programming algorithms".

4. **Activity Budget.** Please enclose a complete detailed budget of the entire Activity **bold** specific items of requested IRA funding. (Page 4)

The contest takes place at the Community College in Riverside, CA. It is a whole day engagement that start at 8:30 am in the morning and ends twelve or so hours later. We will drive there a day earlier and stay in a hotel, so we can compete with fresh heads next day. We need to cover the accommodation for Friday evening and Saturday morning. Later on, students get fed during the contest.

To stay competitive, our teams need to practice. That requires preparing tutorials and sample programming problems. Since this is not part of any coursework, we need to allocate some consulting funds for that.

We also need some office supplies and textbooks.

We have become a landmark of the annual event, because we are a very well organized group. To keep up with that tradition of publicizing CSUCI, we award the students prizes for the participation.

5. **Sources of Activity Support.** Please list the other sources of funding, and additional support for the activity.

None.

7. **Acknowledgment.** Project Sponsor and Program Chair acknowledge that they have reviewed and accepted the Conditions and Considerations detailed on page 2.

Signatures and Dates

Project Sponsor   AJ BiRSZCZ/4O   Date 03/13/2009

Program Chair/Director   Date 3/13/09

Dean   3/17/09

Application
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2009-2010 Academic Year

ACTIVITY BUDGET FOR **2009-2010**

1. Operating Expense Budget

A. Supplies	$ 500.00 (office and textbook)
B. Vendor Printing	
C. InState Travel	
D. OutofState Travel	
E. Equipment Rental	
F. Equipment Purchase	
G. Contracts/Independent Contractors	$ 1500.00 (tutoring/programming)
H. Honorarium	
I. OPC Chargeback	
J. Copier Chargeback	
K. Other (Please Specify)	$ 500.00 (awards)

TOTAL Expenses $ 2500.00

2. Revenue
    A. Course Fees _____
    B. Ticket Sales _____
    C. Out of Pocket Student Fees _____
       (exclusive of course fees)
    D. Additional Sources of _____
       funding
       (Please specify
       And indicate source)
    E. Requested Allocation _____
       from IRA

       Total Revenue _____

None.

7. **Acknowledgment.** Project Sponsor and Program Chair acknowledge that they have reviewed and accepted the Conditions and Considerations detailed on page 2.

<u>Signatures and Dates</u>

Project Sponsor

Date

Program Chair/Director

Date

Dean

<u>Application</u>
<u>Instructionally Related Activities Funds Request</u>
<u>2009-2010 Academic Year</u>

* Revised *   ACTIVITY BUDGET FOR **2009-2010**

1. Operating Expense Budget

    A. Supplies $ 600.00

    B. Vendor Printing

    C. InState Travel $1000.00

    D. OutofState Travel

    E. Equipment Rental

    F. Equipment Purchase

    G. Contracts/Independent Contractors

    H. Honorarium

    I. OPC Chargeback

    J. Copier Chargeback

✳ Revised ✳

K. Other (Please Specify) $ 400.00 (registration fees, advertising)

TOTAL Expenses $ 2000.00

2. Revenue
      A. Course Fees
      B. Ticket Sales
      C. Out of Pocket Student Fees
         (exclusive of course fees)
      D. Additional Sources of
         funding
         (Please specify
         And indicate source)
      **E. Requested Allocation
         from IRA**

      Total Revenue

ACM International Collegiate Programming Contest

From Wikipedia, the free encyclopedia

ACM International Collegiate Programming Contest (abbreviated as **ACM-ICPC** or just **ICPC**) is an annual multi-tiered computer programming competition among the universities of the world. The contest is sponsored by IBM. Headquartered at Baylor University, with autonomous regions on six continents, the ICPC is directed by Baylor Professor William B. Poucher, Executive Director, and operates under the auspices of the Association for Computing Machinery (ACM).

ACM ICPC logo

Contents

History

The ACM International Collegiate Programming Contest, ICPC, traces its roots to a competition held at Texas A&M University in 1970 hosted by the Alpha Chapter of the Upsilon Pi Epsilon Computer Science Honor Society (UPE). The contest evolved into its present form as a multi-tier competition in 1977, with the first finals held in conjunction with the ACM Computer Science Conference.

From 1977 to 1989, the contest included mainly teams from U.S. and Canada. Headquartered at Baylor University since 1989, with regionals established within the world's university community, operating under the auspices of ACM, and with substantial industry support, the ICPC has grown into a worldwide competition with teams from 84 countries in 2005.

Since the beginning of IBM's sponsorship in 1997, contest participation has grown enormously. In 1997, 840 teams from 560 universities participated. In 2007, 6,700 teams from 1,821 universities participated. The number of teams keeps increasing by 10-20% every year and future competitions may be even larger.

The World Finals of the ACM International Collegiate Programming Contest World Finals, ACM-ICPC World Finals, is the final round of competition. Over its history it has become a 4-day event held in the finest venues worldwide. [UPE] recognizes all of the regional champions at the event. Recent World Champion teams have been recognized by their country's head of state and at the annual ACM Awards Ceremony.

Contest rules

The ICPC is a team competition. Current rules stipulate that each team consist of three students. Participants must be university students, who have had less than five years of university education before the contest. Students who have previously competed in two World Finals or five regional competitions are ineligible to compete again.[1][2]

During contest, the teams are given 5 hours to solve between 8 and 11 programming problems (with 8 typical for regionals and 10 for finals). They must submit solutions as programs in C, C++, or Java. Programs are then run on test data. If a program fails to give a correct answer, the team is notified about that and they can submit another program.

The winner is the team which correctly solves most problems. If necessary to rank teams for medals or prizes among tying teams, the placement of teams is determined by the sum of the elapsed times at each point that they submitted correct solutions plus 20 minutes for each rejected submission of a problem ultimately solved.

For example, consider a situation when two teams, Red and Blue, tie by solving two problems each. The team Red submitted their solutions to A and B at 1:00 and 2:45 after the beginning of the contest. They had a rejected run on C, but it was ignored since they didn't solve C. The team Blue submitted solutions to problems A and C at 1:20 and 2:00 after the beginning. They had one rejected run on C. Then, the total time is 1:00+2:45=3:45 for team Red and 1:20+2:00+0:20=3:40 for team Blue. The tie is broken in favor of Team Blue.

Compared to other programming contests (for example, International Olympiad in Informatics), the ICPC is characterized by a large number of problems (8 or more problems in just 5 hours). Another feature is that each team can use only one computer, although teams have three students. This makes the time pressure even greater. Good teamwork and ability to withstand pressure is needed to win.

Regionals and World Finals

The contest consists of several stages. Many universities hold local contests to determine participants at the regional level. Then, universities compete in Regional contests. Winners of Regional contests advance to the ACM-ICPC World Finals. More than one team from a university can compete in regionals, but only one may compete at the world finals. From each region, at least one team goes to World Finals. Regions with large number of teams send multiple teams to finals (sometimes as many as 6 teams from one very large region).

No participant can take part in more than two World Finals.

Some large regions also hold Subregional competitions (also called Preliminaries) which are intermediate between local and regional contests.

2004 World Finals

The 2004 ACM-ICPC World Finals were hosted at the Obecni Dum, Prague by Czech Technical University in Prague. 3,150 teams representing 1,411 universities from 75 countries competed in elimination rounds, with 73 of those teams proceeding to the world finals. St. Petersburg Institute of Fine Mechanics and Optics from Russia won, solving 7 of 10 problems.[3] Gold medalists were St. Petersburg Institute of Fine Mechanics and Optics, KTH - Royal Institute of Technology (Sweden), Belarusian State University, and Perm State University (Russia).

2005 World Finals

The 2005 world finals were held at Pudong Shangri-La Hotel in Shanghai on April 6, 2005, hosted by Shanghai Jiaotong University. 4,109 teams representing 1,582 universities from 71 countries competed in elimination rounds, with 78 of those teams proceeding to the world finals. Shanghai Jiaotong University won its second world title, with 8 of 10 problems solved. [1] Gold medal winners were Shanghai Jiaotong, Moscow State University, St. Petersburg Institute of Fine Mechanics and Optics (Russia), and University of Waterloo (Canada).

Opening Ceremony in 2005.

2006 World Finals

The 2006 ACM-ICPC World Finals were held in San Antonio, Texas and hosted by Baylor University.[4] 5,606 teams representing 1,733 universities from 84 countries competed in elimination rounds, with 83 of those teams proceeding to the world finals. Saratov State University from Russia won, solving 6 of 10 problems.[5] Gold medal winners were Saratov, Jagiellonian University (Poland), Altai State Technical University (Russia), University of Twente (The Netherlands).

2007 World Finals

The 2007 ACM-ICPC World Finals were held at the Tokyo Bay Hilton, in Tokyo, Japan, March 12-16, 2007. The World Finals was hosted by the ACM Japan Chapter and the IBM Tokyo Research Lab. Some 6,099 teams competed on six continents at the regional level. Eighty-eight teams advanced to the World Finals. Warsaw University won its second world championship, solving 8 of 10 problems. Gold Medal Winners were Warsaw University, Tsinghua University (China), St. Petersburg Institute of Fine Mechanics and Optics (Russia), and the Massachusetts Institute of Technology (United States).

2008 World Finals

The 2008 ACM-ICPC World Finals were held at the Fairmont Banff Springs Hotel, in Banff, Alberta, Canada, April 6-10, 2008.[6] The World Finals was hosted by the University of Alberta. There were 100 teams in the World finals, out of 6700 total teams competing in the earlier rounds.[7] The St. Petersburg Institute of Fine Mechanics and Optics won their second world championship. Massachusetts Institute of Technology, Izhevsk State Technical University, and Lviv National University also received gold medals.

2009 World Finals

The 2009 ACM-ICPC World Finals were held in Stockholm, Sweden, April 18-22, at the Grand Hotel of Sweden, the Radisson Strand, and the Diplomat Hotel. The World Finals was hosted by KTH - The Royal Institute of Technology. There were 100 teams from over 200 regional sites to competing for the World Championship. The St. Petersburg Institute of Fine Mechanics and Optics defended their championship title to win their third world championship. Tsinghua University, St. Petersburg State University, and Saratov State University also received gold medals.[8]

2010 World Finals

The 2010 ACM-ICPC World Finals will be held in Harbin, China. The host is Harbin Engineering University.[9]

Winners

- 2009 - Saint Petersburg University of Information Technologies, Mechanics and Optics, Russia
- 2008 - Saint Petersburg University of Information

Top institutions		
Wins ⋈	Institution ⋈	Most Recent ⋈
3	Saint Petersburg University of Information Technologies, M & O	2009
3	Stanford University	1991
2	University of Warsaw	2007
2	Shanghai Jiao Tong University	2005
2	Saint Petersburg State University	2001
2	University of Waterloo	1999

Technologies, Mechanics and Optics, Russia	2	California Institute of Technology	1988
	2	Washington University in St. Louis	1980

- 2007 - University of Warsaw, Poland
- 2006 - Saratov State University, Russia
- 2005 - Shanghai Jiao Tong University, China
- 2004 - Saint Petersburg University of Information Technologies, Mechanics and Optics, Russia
- 2003 - University of Warsaw, Poland
- 2002 - Shanghai Jiao Tong University, China
- 2001 - St. Petersburg State University, Russia
- 2000 - St. Petersburg State University, Russia
- 1999 - University of Waterloo, Canada
- 1998 - Charles University, Czech Republic
- 1997 - Harvey Mudd College, United States
- 1996 - University of California, Berkeley, United States
- 1995 - Albert-Ludwigs-Universität, Freiburg, Germany

- 1994 - University of Waterloo, Canada
- 1993 - Harvard University, United States
- 1992 - University of Melbourne, Australia
- 1991 - Stanford University, United States
- 1990 - University of Otago, New Zealand
- 1989 - University of California at Los Angeles, United States
- 1988 - California Institute of Technology, United States
- 1987 - Stanford University, United States
- 1986 - California Institute of Technology, United States
- 1985 - Stanford University, United States
- 1984 - Johns Hopkins University, United States
- 1983 - University of Nebraska, United States
- 1982 - Baylor University, United States
- 1981 - University of Missouri–Rolla, United States
- 1980 - Washington University in St. Louis, United States
- 1979 - Washington University in St. Louis, United States
- 1978 - Massachusetts Institute of Technology, United States
- 1977 - Michigan State University, United States

By country

Contests ⊠	Country ⊠	Most Recent ⊠
17	United States	1997
6	Russia	2009
2	Poland	2007
2	China	2005
2	Canada	1999
1	Czech Republic	1998
1	Germany	1995
1	Australia	1992
1	New Zealand	1990

See also

- International Olympiad in Informatics, a similar competition for secondary school students.
- TopCoder, a similar set of competitions conducted online.
- Online judge
- PC²

References

1. ^ "Information - ACM International Collegiate Programming Contest". http://icpc.baylor.edu/icpc/info/default.htm. Retrieved 2008-06-10.
2. ^ "2008 ICPC Regionals Eligibility Decision Diagram" (PDF). http://icpc.baylor.edu/icpc/Regionals/EligibilityDecisionTree.pdf. Retrieved 2008-06-10.
3. ^ "Queen's grabs glory: more than 70 teams from 31 countries gathered for the International Collegiate Programming Contest in Prague, hosted by the Association of Computing Machinery. Canadian universities took top honours.". Computing Canada. 2004-04-23. http://www.accessmylibrary.com/coms2/summary_0286-21344050_ITM. Retrieved 2008-06-09.

4. ^ Sullivan, Laurie (2006-04-05). "Computing Students To Test Math, Programming Prowess". Information Week. http://www.informationweek.com/news/hardware/desktop/showArticle.jhtml?articleID=184429155. Retrieved 2008-06-09.
5. ^ "A Red Flag In The Brain Game". Business Week. 2006-05-01. http://www.businessweek.com/magazine/content/06_18/b3982053.htm?chan=tc?campaign_id=rss_tech. Retrieved 2008-06-09.
6. ^ "IBM and Association for Computing Machinery Announce Global "Battle of the Brains" Software Competition". 2007-09-12. http://www.earthtimes.org/articles/show/news_press_release,176538.shtml. Retrieved 2008-06-09.
7. ^ "ICPC 2008 World Finals Results". 2009-04-01. http://cm2prod.baylor.edu/ICPCWiki/Wiki.jsp?page=History%20-%20ICPC%202008. Retrieved 2009-04-13.
8. ^ "ICPC 2009 World Finals Results". 2009-04-21. http://cm2prod.baylor.edu/ICPCWiki/Wiki.jsp?page=History%20-%20ICPC%202009. Retrieved 2009-04-22.
9. ^ "Students from St. Petersburg won the IBM sponsored contest ACM-ICPC". 2009-04-21. http://www.ibm.com/news/se/sv/2009/04/21/f367010a64679s25.html. Retrieved 2009-06-23.

External links

Official website

- Official Website of the ACM-ICPC - maintained at Baylor University.
- [2] - official result of 2009 ICPC

Online judges

- ACM-ICPC Live Archive Around the World
- Universidad de Valladolid Online Judge
- Ural State University Online Judge
- Tianjin University Online Judge
- Saratov State University Online Judge
- Sphere Online Judge
- MIPT Online Judge
- Peking University Online Judge
- Jilin University Online Judge
- Zhejiang University Online Judge
- Harbin Institute of Technology Online Judge
- Tianjin University Online Judge
- Fuzhou University Online Judge
- Online Problems Solving System
- University of Dhaka Online Judge & Contest Training
- Moscow State University Virtual Contest System
- **(Ukrainian)** Lviv National University ACM Contester
- **(Russian)** Far Eastern National University Online Judge

ICPC Blogs

- ACMSolver - maintained by Ahmed Shamsul Arefin [3]
- Marco's Blog - maintained by Marco Gallotta [4]
- Igor's UVa - maintained by Igor Naverniouk [5]
- Andrian Kurniady's ICPC event blog - maintained by Andrian Kurniady

ICPC Training

- Algorithmist - maintained by Algorithmist Team
- ICPC Training wiki - maintained by Department of Computer Science at the University of Cape Town.
- Steven Halim's Method to solve ACM UVa OJ Problems - maintained by Steven Halim
- The Stony Brook Algorithm Repository - maintained by Steven Skiena [6].
- Programming Challenges - maintained by Miguel Revilla

- UVa Online Judge Board - maintained by Universidad de Valladolid Online Judge
- CodeChef - maintained by Directi Group
- Hello-World - maintained by Sang Song

Retrieved from "http://en.wikipedia.org/wiki/ACM_International_Collegiate_Programming_Contest"
Categories: Programming contests | Baylor University

Minutes
IRA Committee Meeting
May 8, 2009
3:30 – 5:00pm

Attendees: Chelsee Bente, Adraina Franco, Emily Deakin, Catherine Burriss, Dan Wakelee, Margo Hardin, Toni Rice, Dustin Erickson

A motion was brought forward and seconded to rollover the remaining $811 that remains unspent in the Livescan Fingerprinting award.
Approved – 7
Opposed – 0
Abstained – 0

A motion was brought forward and seconded to rollover the $6200 that was never spent on Frank Barajas Chicano Studies Lecture Series.
Approved – 7
Opposed – 0
Abstained – 0

A motion was brought forward and seconded to rollover $1215 of the remaining $2430 in Jorge Garcia's Mathematics Seminar award. A stipulation was made that there will be no rollover of unspent funds next year.
Approved – 6
Opposed – 1
Abstained – 0

**Dustin Erickson joined in the voting at this point.

A motion was brought forward and seconded to not fund any rollover of unspent funds from the Habitat of Hawaii's Humpback whales as a new proposal for next year has been received.
Approved – 8
Opposed – 0
Abstained – 0

A motion was brought forward and seconded to approve the spending of the $267 leftover from this years Island Fox Literary Journal on reprinting of last year's journal as fewer copies had been made and many did not receive one.
Approved - 8
Opposed – 0
Abstained - 0

Proposal 289 - Science & Technology in Japan - a revised budget is requested. The committee will vote electronically on this.

Proposal 290 - Fall '09 Science Symposium: Climate Change -
A motion was brought forward and seconded to approve for $7000, excluding the request for funding for the purchase of carbon offsets.
Approved – 6
Opposed – 0
Abstained – 2

Proposal 291 – Lecture Capture & Casting Pilot – Motion to encourage AJ Bieszczad to consult with IT and we will take it up in the Fall without delay. Once committee receives the report on consultation, we will consider it before we consider other proposals.
Approved – 8
Opposed – 0
Abstained – 0

**Emily Deakin left the meeting at this point.

Proposal 292 – Living Under the Trees – Motion to approve by acclamation for funding in the amount of $12,500.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 293 – Field Experience for Coastal – A motion was brought forward and seconded to fund in the amount of $850.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 294 – Tools for Energy Conservation - Motion to approve by acclamation for funding in the amount of $1769.
Approved – 7
Opposed – 0
Abstained -0

Proposal 298 – Digital Library of Complementary Practices – A motion was brought forward and seconded to approve in the amount of $2100.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 304 – Student presentations – A motion was brought forward and seconded to fund in the amount of $5640.
Approved – 7
Opposed – 0
Abstained - 0

Proposal 308 – CSUCI Programming Guru Contest – A motion was brought forward and seconded to fund in the amount of $3200 which will include funding for t-shirts but not prizes. There will be a stipulation that the consultants may not be students.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 312 – UNIV 392: Mexican Mangroves – A motion by acclamation to fund in the amount of $26,342.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 313 – Service Learning in New Orleans – A motion was brought forward and seconded to fund in the amount of $18,430.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 314 – UNIV 392: New Zealand – A motion was brought forward and seconded to fund in the amount of $54,000.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 316 - UNIV 392 Math Exchange in Mexico – A motion was brought forward to approve for $570 per student, up to 15 students and $850 per faculty member, up to 2 faculty members for a total award of $10,250.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 317 – Geometry Workshop – A motion was brought forward and seconded to fund in the amount of $3500.
Approved – 7
Opposed – 0
Abstained -0

Proposal 318 – Habitat of Hawaii's Humpback Whales – A motion to approve by acclamation for funding in the amount of $20,960.
Approved – 7
Opposed – 0
Abstained – 0

Proposal 309 – ACM Int'l Intercollegiate Programming – A motion to ask to resubmit asking for funding for hotel rather than tutoring and awards.
Approved – 7
Opposed – 0
Abstained – 0

After receiving via email a revised budget, the committee reconsidered Proposal 289 – Science and Technology in Japan. Also via email a motion was brought forward and seconded to fund in the amount of $26,789.50, which is broken down to provide $1467.30 per student for up to 15 students and $2390 per instructor.
Approved – 9
Opposed – 0
Abstained - 0

CALIFORNIA STATE UNIVERSITY
CHANNEL ISLANDS

http://www.csuci.edu/ira/index.htm

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Project Sponsor/Staff (Name/Phone): **Prof. AJ Bieszczad, x2773**
Activity/Event Date(s): **November 2009**
Date Funding Needed By: **June 2009**
**Please Note that for Fall Requests the earliest that you will be notified of funding availability will be early June 2008 and for Spring Requests early January 2009.

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□ Event   □ Field Trip
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□ International Travel   dissemination, i.e. interviews/surveys that
□ Space/OPC Requirements   □ Risk   result is a journal/poster session/newsletter
□ Infrastructure/Remodel   Management Consultation
x Other Programming Contest   □ Late Submission (Passed Deadlines: **Fall 3/15,**
                                 Spring 10/15)

Previously Funded: **x YES** □ NO   Yes, Request # _____

Does your proposal require IRB (Institutional Review Board) approval: □Yes **x No**

Assessment submitted for previously Funded Activity: **x YES** □NO

Academic Program or Center Name and Budget Code: **770-COMPUTER SCIENCE**

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Events-Attach copy of Events and Facilities Use Request Form (Public Folders-Events & Facilities folder) Consider time frame for set-up and take down.

Participant Data Collection for Public Dissemination-If Project Sponsor proposes to conduct research with human participants then it may be subject to IRB (Institutional Review Board for the Protection of Human Subjects) review. It is the Project Sponsor's responsibility to inquire with the IRB **prior** to IRA application submission to determine if the project is exempt from IRB review so that funding is not delayed. Please indicate on the cover page if your project is exempt from IRB review.

Field Trip-If approved, Identified Risks of Participation and Release Agreement must be submitted for each student to the Program Office (Public Folders-HR Forms).

IT Requirements-Requires proof of correspondence and approval from IT Administration

International Travel-Requires International Travel application be submitted to Center for International Affairs.

Risk Management Consultation-Requires proof of correspondence with Risk Management.

Space/OPC Requirements, Infrastructure/Remodel-Requires proof of correspondence with OPC Administration .

Late Submission (Deadlines: Fall 3/14, Spring 10/15)-Requires explanation for emergency funding.

Fiscal Management: Project Sponsor's program will be responsible for all costs incurred over and above what is funded through the IRA award and will be responsible for seeing that any revenue that is intended to offset the amount of the IRA award is transferred accordingly.

Requirements and Signatures

Please provide the following in your application:

1. **Brief Activity Description.** Describe the activity and its relationship to the educational objectives of the students' program or major.

   The students will participate in an annual, internationally recognized programming contest sponsored by Association for Computing Machinery (ACM), IBM, and Google that involves over 1800 universities from around the world sending over 6000 teams to numerous regional contest. Our university belongs to the Southern California region. The students compete against peers from various institutions of higher education including CalTech, USC, all Southern California UC and CSU campuses, numerous private institutions as well as some of the best community colleges. In addition to improving their skills as computer programmers, the event allows our students to expand their horizons beyond the walls of the Computer Science Program, and the CSUCI.

   In the past we sent 3-5 teams to the contest. Each team has three members, who collaboratively solve programming problems using one computer.

2. **Relation to IRA to Course Offerings.** All IRAs must be integrally related to the formal instructional offerings of the University and must be associated with scheduled credit courses. Please list all classes that relate to the program proposed.

   Programming is a fundamental skill that is taught in numerous Computer Science courses: COMP105 Introduction to Computer Science and Programming, COMP150 Introduction to Object-Oriented Programming, COMP151 Algorithms and Data Structures, COMP232 Programming Languages, COMP350 Software Engineering, COMP351 Distibuted Computing, COMP450 Advanced Object-Oriented Programming, and many others that have smaller or larger programming components.

   The contest is a competition between teams of three students that have to share one computer trying to solve six difficult problems in a five-hour session. The teams have to practice for several weeks to prepare for the event. For that, the eligible students enroll in COMP450 Advanced Object-Oriented Programming, and some may participate through COMP497 Directed Studies (e.g., if participating second time).

   Through this activity, the students exercise not only programming but also interpersonal skills working as members of a competing team. Teamwork is an extremely important aspect of the computer programming profession, and the industry requires that these professionals have excellent teamwork expertise.

3. **Activity Assessment.** Describe the assessment process and measures that the program will use to determine if it has attained its educational goals. **Please note a report will be due at the end of the semester.**

   The students will compete against teams from other Southern California universities, so we will be able to compare how do we do in comparison with

other institutions. Especially interesting is comparison with other campuses of CSU. We have been improving every year and we have gained a competitive position with best schools from the region. We have also become a recognizable landmark at the contest, so the teams are good ambassadors for CSUCI.

Please see:

http://www.cs.csuci.edu/cms/index.php?page=acm-2008

for the last year, and for the history of the six years of our participation.

Student interpersonal skills should help them improve the quality of their work in classes that require teamwork such as COMP350 Software Engineering.

In the past, the contest provided a vehicle for improving students programming skills. Many of them were solving problems of substantial difficulty for the first time. The students learned a lot. One can easily see a difference that the practice makes in higher level classes.

Some quotes from the students evaluations of the contest preparatory class:

> "I learned more from this class than all of my other classes this far. Not only was this class educational but fun".

> "This class proved excellent for actually learning how to implement programming algorithms".

4. **Activity Budget.** Please enclose a complete detailed budget of the entire Activity **bold** specific items of requested IRA funding. (Page 4)

   The contest takes place at the Community College in Riverside, CA. It is a whole day engagement that start at 8:30 am in the morning and ends twelve or so hours later. We will drive there a day earlier and stay in a hotel, so we can compete with fresh heads next day. We need to cover the accommodation for Friday evening and Saturday morning. Later on, students get fed during the contest.

   To stay competitive, our teams need to practice. That requires preparing tutorials and sample programming problems. Since this is not part of any coursework, we need to allocate some consulting funds for that.

   We also need some office supplies and textbooks.

   We have become a landmark of the annual event, because we are a very well organized group. To keep up with that tradition of publicizing CSUCI, we award the students prizes for the participation.

5. **Sources of Activity Support.** Please list the other sources of funding, and additional support for the activity.

   None.

7. **Acknowledgment.** Project Sponsor and Program Chair acknowledge that they have reviewed and accepted the Conditions and Considerations detailed on page 2.

Signatures and Dates

Project Sponsor AJ Bieszczito   Date 03/13/2009

Program Chair/Director   Date 3/13/09

Dean   3/17/09

Application
Instructionally Related Activities Funds Request
2009-2010 Academic Year

ACTIVITY BUDGET FOR **2009-2010**

1. Operating Expense Budget

   A. Supplies $ 500.00 (office and textbook)

   B. Vendor Printing   _____

   C. InState Travel   _____

   D. OutofState Travel   _____

   E. Equipment Rental   _____

   F. Equipment Purchase   _____

   G. Contracts/Independent Contractors $ 1500.00 (tutoring/programming)

   H. Honorarium   _____

   I. OPC Chargeback   _____

   J. Copier Chargeback   _____

   K. Other (Please Specify) $ 500.00 (awards)

TOTAL Expenses $ 2500.00

2. Revenue
    A. Course Fees   _____

    B. Ticket Sales   _____

    C. Out of Pocket Student Fees
       (exclusive of course fees)   _____

    D. Additional Sources of
        funding
        (Please specify
        And indicate source)   _____

    **E. Requested Allocation
       from IRA**

        Total Revenue   _____