

**Annual Report of the ACM Awards Committee
for the Period
July 1, 2004 - June 30, 2005**

1. BASIC INFORMATION

1.1 List of Committee Members and Terms of Office

Calvin C. Gotlieb, Co-Chair	4/1/98-6/30/06
James Jay Horning, Co-Chair	7/02-6/30/06
Martin Abadi	8/04-12/31/06
Hal Abelson	12/03-12/31/09
Alfred V. Aho	2/01-12/31/05
Ruzena Bajcsy	1/04-12/31/07
Mary Gray Baker	11/04-12/31/07
Victor Basili	7/02-12/31/07
Michel Beaudouin-Lafon	8/04-12/31/07
Alan Berenbaum	12/03-12/31/05
Nina Bhatti	
Judith Bishop	6/03-12/31/06
Dines Bjørner	8/04-12/31/07
Ronald Boisvert	10/04-12/31/08
Eric Brewer	3/05-
John Seely Brown	1/01-12/31/07
Gary Chapman	1/99-12/31/04
E.G. Coffman	6/03-12/31/06
Patrick Cousot	9/04-12/31/07
Carlos de Lucena	2/01-12/31/05
Asit Dan	7/01-12/31/04
Charles Dickson	10/02-12/31/04
Susan Eggers	12/02-12/31/04
Adel S. Elmaghraby	6/02-12/31/05
Joan Feigenbaum	5/01-12/31/05
Christian Freksa	7/05-
Bernard Galler	2/01-12/31/05
Nicholas Georganas	12/03-12/31/07
Sandra Graham	3/05-12/31/06
James N. Gray	6/02-12/31/06
David Harel	1/05-12/31/09
Juris Hartmanis	6/00-12/31/04
R. Nigel Horspool	10/00-12/31/04
Charles H. House	4/01-12/31/06
Mary Jane Irwin	4/01-12/31/05
Leah Jamieson	5/01-12/31/04
Hisao Kameda	2/01-12/31/05

Anna Karlin	10/04-12/31/07
Richard Karp	2/01-12/31/04
Randy Katz	10/04-12/31/06
Maria Klawe	8/04-12/31/08
Stuart Kurtz	5/02-12/31/06
Edward Lazowska	9/02-12/31/06
Stephen R. Mahaney	10/04-12/31/08
Brien Maguire	6/03-12/31/05
Katherine McKeown	3/05-12/31/11
Renée J. Miller	12/03-12/31/06
Priya Narasimhan	8/04-12/31/08
Cherri M. Pancake	9/03-12/31/08
Linda Petzold	
Prabhakar Raghavan	7/01-12/31/05
Barbara Ryder	9/04-12/31/07
David Sallach	8/00-12/31/04
Michael D. Schroeder	8/04-12/31/06
David Shmoys	
Edward Shortliffe	3/00-12/31/05
Barbara Simons	
Per Stenstrom	11/04-12/31/06
Sabine Susstrunk	12/04-
Valerie Taylor	8/04-12/31/08
Frank Tompa	8/04-12/31/07
Donald F. Towsley	12/03-12/31/07
A. Joseph Turner	8/00-12/31/04
Mike Ubell	1/04-
Jeffrey Ullman	11/04-12/31/07
Michael Wellman	9/00-12/31/05
David Wherty	
Telle Whitney	10/02-12/31/06
Margaret Wright	11/04-12/31/05
Stuart Zweben	7/02-12/31/07

1.2 Purpose of the Committee

The Awards Committee is responsible for the conduct of the currently existing award prizes, fellowships and other symbols of recognition of merit bestowed by ACM as a whole. This includes making appointments to the various award committees, soliciting nominees, selecting winners from among the nominees, and arranging for the formal conferring of the awards, and exploring possibilities of funding awards with outside organizations. The Policies and Guide for establishing an ACM award can be found on: <http://www.acm.org/awards/policies.html>

The Committee is further responsible for defining and updating the awards structure of ACM and its units, by recommending to Council, when appropriate, the establishment of new programs for the recognition of merit, or the modification or discontinuance of existing ones, with the goal of maintaining a balance among the awards recognizing different kinds of meritorious activities.

All ACM awards must be approved by the ACM Awards Committee. Approval by ACM Council is required before any proper name may be attached to any such award or prize. This authority may not be delegated. Subunit-wide awards, excluding Named Awards, generally do not require ACM Council approval.

The Committee will provide advice to subunits of ACM regarding any award programs conducted by them. Subunits engaging in award activities should consult with the Awards Committee concerning the nature and balance among the programs of ACM and its subunits.

The Committee will maintain contact, and as appropriate, exchange information with other professional or technical organizations concerning their awards programs.

1.3 Committee Organization

The Awards Committee is a standing committee of Council, reporting through the President. The ACM Awards Committee consists of the ACM President, the CEO/Executive Director (ex-officio), the Co-Chairs of the Awards Committee, the current chairs of the individual ACM award selection committees, and the ACM SIG Chairs Liaison with the Awards Committee.

A.M. Turing Award

2004 Chair -- Alfred V. Aho; 2005 Chair – Jim Gray

ACM's most prestigious technical award is accompanied by a prize of \$100,000. It is given to an individual selected for contributions of a technical nature made to the computing community. The contributions should be of lasting and major technical importance to the computer field. Financial support of the Turing Awards is provided by the Intel Corporation.

2004 Recipients: Vinton G. Cerf, MCI
Robert E. Kahn, CNRI

Distinguished Service Award

2004 Chair – Stuart A. Kurtz; 2005 Chair – Nicholas Georganas

Awarded on the basis of value and degree of service to the computing community. The contributions should not be limited to service to the Association, but should include activities in other computer organizations and should emphasize contributions to the computing community at large.

2004 Recipient: E.G. Coffman, Columbia University

Outstanding Contribution to ACM Award

2004 Chair – Mary Jane Irwin; 2005 Chair – E.G. Coffman

This award is given to individuals who are selected on the value and degree of service to ACM.

2004 Recipient: Richard T. Snodgrass, University of Arizona, Tucson

Software System Award

2004 Chair – Adel S. Elmaghraby; 2005 Chair – Judith Bishop

Awarded to an institution or individual(s) recognized for developing a software system that has had a lasting influence, reflected in contributions to concepts, in commercial acceptance, or both. The Software System Award carries a prize of \$10,000 which is provided by IBM.

2004 Recipients: Raghuram Bindignavle, Consultant
Simon S. Lam, University of Texas-Austin
Shaowen Su, Consultant
Thomas Y.C. Woo, Bell Laboratories

Grace Murray Hopper Award

2004 Chair – Joan Feigenbaum; 2005 Chair – Telle Whitney

Awarded to the outstanding young computer professional of the year, selected on the basis of a single recent major technical or service contribution and includes a prize of \$15,000; financial support of the award is provided by Google. The candidate must have been 35 years or age or less at the time the qualifying contribution was made.

2004 Recipient: Jennifer Rexford, Princeton University

Karl V. Karlstrom Outstanding Educator Award

2004 Chair – Margaret Wright; 2005 Chair – Randy Katz

Awarded annually to an outstanding educator who: is appointed to a recognized educational baccalaureate institution; is recognized for advancing new teaching methodologies, or effecting new curriculum development or expansion in computer science and engineering; or who is making a significant contribution to the educational mission of the ACM. Those who have been teaching for ten years or less will be given special consideration. A prize of \$5,000 is supplied by the Prentice-Hall Publishing Company.

2004 Recipient: No award was presented

Paris Kanellakis Theory and Practice Award

2004 Chair – Prabhakar Raghavan; 2005 Chair - Renée J. Miller

The Kanellakis award honors specific theoretical accomplishments that have had a significant and demonstrable effect on the practice of computing. This award is accompanied by a prize of \$5,000 and is endowed by contributions from the Kanellakis family, and financial support which has been provided by ACM's SIGACT, SIGDA, SIGMOD, SIGPLAN, the SIG Project Fund, and individual contributions.

2004 Recipients: Yoav Freund, Columbia University
Robert Schapire, Princeton University

Doctoral Dissertation Award

2004 Chair – Michael Wellman; 2005 Chair – Edward Lazowska

Presented annually to the author(s) of the best doctoral dissertation(s) in computer science and engineering and is accompanied by a prize of \$5,000. The winning dissertation is published by Springer.

2004 Recipient: Boaz Barak, Institute for Advanced Studies/as of July 2005-Princeton
(Dissertation nominated by Weizmann Institute of Science)

2004 Honorable Mentions: Ramesh Johari, Stanford University
(Dissertation nominated by the MIT)
Emmett Witchel, University of Texas, Austin
(Dissertation nominated by the MIT)

ACM/IEEE CS Eckert-Mauchly Award

2004 Chair – Michel Dubois; 2005 Chair - Tom Conte

Administered jointly by ACM and IEEE Computer Society. The award of \$5,000 is given for contributions to computer and digital systems architecture where the field of computer architecture is considered at present to encompass the combined hardware-software design and analysis of computing and digital systems. The award is presented at the annual ISCA (International Symposium on Computer Architecture) conference.

2004 Recipient: Frederick P. Brooks, Jr., University of North Carolina, Chapel Hill

2005 Recipient: Robert P. Colwell

ACM/AAAI Allen Newell Award

2004 Chair – Edward Shortliffe; 2005 Chair – John Seely Brown

The Allen Newell Award is presented to an individual selected for career contributions that have breadth within computer science and other disciplines. This endowed award is supported by the American Association for Artificial Intelligence (AAAI), and by individual contributions.

2004 Recipient: Richard P. Gabriel, Sun Microsystems

ACM Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics

2004-05 Chair – Nina Bhatti

The Lawler Award recognizes an individual or a group who have made a significant contribution through the use of computing technology. The amount of this biennial award is \$5,000, and it is financially supported by individual contributions.

2003 Recipient: Patrick Ball, The Benetech Initiative

The SIAM/ACM Prize in Computational Science and Engineering

This biennial, endowed award recognizes an individual(s) for outstanding research contributions to the field of computational science and engineering. The contribution(s) for which the award is made must be publicly available and may belong to any aspect of computational science in its broadest sense. The award includes a certificate and a cash prize of \$5,000. Financial sponsorship is provided by SIAM (Society for Industrial and Applied Mathematics).

This award was presented at the SIAM Conference on Computational Science and Engineering (CSE05) in February 2005, in Orlando, Florida, to Achi Brandt, Weizmann Institute of Science, “for pioneering modern multilevel methods, from multigrid solvers for Partial Differential Equations to multiscale techniques for statistical physics, and for influencing almost every aspect of contemporary computational science and engineering.”

ACM Fellows

2004 Chair – Bernard Galler; 2005 Chair – Charles H. House

The ACM Fellows Program was established by ACM Council in 1993 to recognize and honor outstanding ACM members for their achievements in computer science and information technology and for their significant contributions to the mission of the ACM. The ACM Fellows serve as distinguished colleagues to whom the ACM and its members look for guidance and leadership as the world of information technology evolves. Twenty new Fellows were inducted at the ACM Awards Ceremony on June 11, 2005 at the Palace Hotel, in San Francisco, which brings the total number of ACM Fellows to 515. The 2004 Fellows are:

Bella Bose, Oregon State University
Janis A. Bubenko, Jr., Royal Institute of Technology, Stockholm
Luca Cardelli, Microsoft Research, Cambridge, UK
Andrew A. Chien, University of California, San Diego
George E. Collins, University of Delaware - Retired
Joel S. Emer, Intel Corp.
Allan J. Gottlieb, New York University
Vicki Hanson, IBM Thomas J. Watson Research Center
Mark D. Hill, University of Wisconsin-Madison
Yannis Ioannidis, University of Athens
M. Frans Kaashoek, Massachusetts Institute of Technology
Per-Åke Larson, Microsoft Research, Redmond, WA
Peter Lee, Carnegie Mellon University
Paul Mockapetris, Nominum, Inc.
Simon Peyton Jones, Microsoft Research, Cambridge, U.K.
Richard E. Schantz, BBN Technologies
Michael D. Schroeder, Microsoft Research Silicon Valley
Stamatis Vassiliadis, Delft University of Technology
Benjamin W. Wah, University of Illinois, Urbana-Champaign
David S. Wise, Indiana University

Intel International Science and Engineering Fair (ISEF)

2004 Chair -- Brien Maguire; 2005 Chair – Sandra Graham

ISEF is administered by Science Service and is for students in the 9th through 12th grades. ACM's first place award is \$1,000, second place is \$500, and third place is \$300, the honorable award winners (a maximum of 3) receive a prize of \$200. All receive complimentary Student subscriptions memberships (Portal Package) for the duration of their undergraduate studies. The 2005 ISEF was held in May 2005, in Phoenix, Arizona, and ACM was represented by its judges Brien Maguire and Sandra Graham.

The 55th Intel ISEF ACM winners are:

First Place Winner (\$1,000):

Kimberly E. Reinhold, St. Joseph's High School, Hawaii

Artificial Cognition and Memory: Tissue Image Analysis for Tumor Diagnosis

Second Place Winner (\$500):

Yizhong Zhang, Kongjiang Senior Higher School, China

Construct a Kernel-Service-Accelerator with SW&HW Meshing and Reality Multi-Threading Parallel Processing for FPGA-based Reconfigurable Systems

Third Place Award (\$300):

Katharine A. Symanow, Divine Child Higher School, Michigan

An Intensity Equalization Procedure to Improve the Display of Color Images

Honorable Mention (\$200):

Justin Moore Solomon, Thomas Jefferson Higher School for Science and Tech, Virginia

Identification of Differential Surface Properties on a Triangle Mesh for Facial and Object Recognition

Sonia Nijhawan, DuPont Manual Magnet High School, Kentucky

Collaborative Nurse Scheduling: A Novel approach to Improve Utilization of Existing Nurse Resources through Secure Data Transactions and Hospital Clustering

Ocan Sankur, Galatasaray Lisesi, Turkey

A New Multidimensional Feature-Mapping Algorithm

Recognition of Service Certificates

Headquarters Staff

The Recognition of Service Certificate Program is the responsibility of Headquarters Staff to issue certificates to those eligible volunteers who have completed service to ACM of at least one year in an elective or appointed position and who have received endorsement of their superiors in the ACM volunteer organization; 361 certificates were issued in FY'05.

1.4 Awards Committee Meeting

The Awards Committee meeting was held Friday, June 10, 2005, at the Palace Hotel in San Francisco. Fourteen people attended the meeting, including several outgoing/incoming subcommittee chairs, President Dave Patterson, and Vice President Stuart Feldman.

Highlights of the meeting follow:

Report from the ACM Awards Committee Co-Chairs

The efforts to achieve a higher profile of ACM's awards proved to be successful. In addition to the announcement of the Turing award winners on page 1 of the Business section of the *New York Times* (2/16/05), there were articles on the Turing winners in the *San Jose Mercury*, *San Francisco Chronicle*, and the *Washington Post*. During the Award Banquet, the local ABC station filmed a segment of the Turing presentation which was shown on its 6/11/05 11:00 pm news program.

Named awards: the members of the Award Subcommittees were asked to provide a few lines of background information for those who have ACM awards named in their honor. This information will be included on the Awards Web site.

SIG Recognition of ACM Fellows: The Award Co-Chairs agreed that it was a positive step for the SIGs to provide additional recognition for the new ACM Fellows from the SIG communities. The recognition will be left up to the discretion of the individual SIGs and may include some sort of ceremony or announcement at an appropriate conference.

Canvassing Committees: The 2005 will be the first group to have the benefit of Canvassing Committees. Three committees were set up to assist in the attempt to have additional nominations as well as to achieve greater diversity.

Membership Grades: VP Stuart Feldman reported on the proposed new membership grades. These include Lifetime member, and Senior and Distinguished Members. This proposal came out of the Council retreat held in April 2005 and was prompted by the intent to have greater recognition of practitioners. A subcommittee was set up to review this proposal and to come back with a recommendation for Council. The members of the subcommittee are Kelly Gotlieb, Jim Horning, and Chuck House.

Alan Kay Award Proposal: The award proposed by Alan Kay would be awarded to an individual whose work “brought visions and ideas to life” in a manner that was essential for their impact – specifically those whose work has been a key enabler for the work of others that has been recognized by other ACM awards.

Gotlieb noted that the proposal was discussed at last year’s Awards Committee meeting and the vote was 10 to 2 against going forward. The reasons for not going forward were that there was need for the formulation of a better set of guidelines/rules, and the award description requires clarification of the distinction between the proposed award and the ACM Software System Award.

The vote of those present at the Awards Committee meeting was 4 for, and 4 opposed. The entire Awards Committee will be polled for their opinions and to see if they believe that this award should go to Council for approval.

Publication of Committee Rosters: The consensus was that for the sake of openness these rosters should be made public. A notice of intent will be circulated to all members of the award subcommittees informing them that this information will be published on the Web site starting with the 2006 awards. If anyone has objections to having their name/contact information listed they will be asked to contact the Awards Committee Co-Chairs and to state their objections.

Award Funding: Patterson said that ACM should have a kit covering basic information that could be used in funding efforts. Among the companies that ACM could approach are HP, Microsoft, Sun, however, ACM should not limit this list to the top few corporations, but should consider approaching companies like eBay, et al.

The ACM Awards Banquet

The annual ACM Awards Banquet was held as a stand-alone event on Saturday, June 11, 2005 at the Palace Hotel in San Francisco. The reception immediately preceding the banquet was hosted by the Intel Corporation.

A prior reception in honor of the 2004 ACM A.M. Turing Award winners was held on Thursday, June 8, at the Computer History Museum. In total nine Turing winners were in attendance.

In the banquet audience of over 200 people were 10 of the 20 new Fellows as well as all of the ACM award winners. ACM’s President Dave Patterson was the Master of Ceremonies. Among the corporate representatives were: David Tennenhouse, Vice President of the Corporate Technology Group and Director of Research at Intel, for the Turing Award; Gabriel Silberman, Program Director of the IBM Center for Advanced Studies, for the Software System Award and ICPC; and Raymond Perrault, Director, Artificial Intelligence Center, SRI International, for the Allen Newell Award; and Alan Eustace, VP of Research and Systems Engineering, who was joined on stage by Google Co-Founder Larry Page, for the Grace Murray Hopper Award.

Unfortunately, the winners of the ACM International Collegiate Programming Contest (ICPC) which took place in Shanghai April 6, 2005 were not able to attend. Their Visa appointments were scheduled after the banquet and several attempts were made to NY’s Senators

to change the date of their appointment to no avail. The sponsor, IBM, was represented by Gabriel Silberman. The members of the 2005 winning team from Shanghai Jiao Tong University are:

Bohai Yang
Shuang Zhao
Wenyuan Dai

Their Coach is Professor Yong Yu, and their Assistant Coaches are Professors Chenxi Lin and Hao Yuan.

In addition, the following winners of the ACM Student Research Competition Grand Finals were recognized:

Graduate Category:
First Place: Jane Tougas
Second Place: Kulesh Shammugasundaran
Third Place: Tao Xie

The winners for the Undergraduate Category were:

First Place: Eric Bodden
Second Place: Spiros Xanthos
Third Place: Kamil Wnuk.

Mark Lewin represented Microsoft, the SRC sponsor.

The responses received after the Reception at the Computer History Museum on June 8 and the Awards Banquet on June 11, were quite complimentary, and both events were very successful in terms of attendance and positive feedback.

Recruitment Plans for New/Younger Members

The Awards Committee Co-Chairs continue to seek recommendations from the outgoing award subcommittee chairs for members to replace those whose terms are expiring. In addition to seeking new members whose expertise falls within the criteria for the various awards, the expectation for diversity was typically implied. The request for recommendations in the future will be more explicit in seeking a more diversified representation over the collection of subcommittees, including taking into account age, gender, and international representation.

In addition to its efforts to achieve a greater diversity within the award subcommittees, the Awards Committee has established Canvassing Committees to help ensure that the award nominations reflect the diversity in the ACM membership.