

**Annual Report of the ACM Awards Committee
for the Period
July 1, 2003 - June 30, 2004**

1. BASIC INFORMATION

1.1 List of Committee Members and Terms of Office

Calvin C. Gotlieb, Co-Chair	4/1/98-6/30/04
James Jay Horning, Co-Chair	7/02-6/30/04
Alfred V. Aho	2/01-12/31/05
Gordon Bailes	10/02-12/31/04
Victor Basili	7/02-12/31/07
Nina Bhatti	
Judith Bishop	6/03-12/31/06
John Seely Brown	1/01-12/31/04
Gary Chapman	1/99-12/31/04
Gilbert Cockton	7/99-12/31/03
E.G. Coffman	6/03-12/31/06
Donald Cowan	2/01-12/31/03
Carlos de Lucena	2/01-12/31/05
Charles Dickson	10/02-12/31/04
Michel Dubois	2/02-12/31/03
Susan Eggers	12/02-12/31/04
Adel S. Elmaghraby	6/02-12/31/05
Wayne Enright	6/02-12/31/03
Joan Feigenbaum	5/01-12/31/05
Bernard Galler	2/01-12/31/05
James N. Gray	6/02-12/31/06
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
Robert Kahn	8/98-12/31/03
Hisao Kameda	2/01-12/31/05
Sidney Karin	10/00-12/31/03
Richard Karp	2/01-12/31/04
Stuart Kurtz	5/02-12/31/06
Edward Lazowska	9/02-12/31/06
Michael E. Lesk	3/99-12/31/03
Doris Lidtke	8/99-12/31/03
Brien Maguire	6/03-12/31/05
C. Dianne Martin	6/99-12/31/03

Leszek Pacholski	6/99-12/31/03
Linda Petzold	
Prabhakar Raghavan	12/31/05
David Sallach	8/00-12/31/04
David Shmoys	
Edward Shortliffe	3/00-12/31/02
Barbara Simons	
Mary Lou Soffa	8/99-12/31/03
A. Joseph Turner	8/00-12/31/04
Michael Wellman	9/00-12/31/05
David Wherty	
Telle Whitney	10/02-12/31/06
Jeannette Wing	6/99-12/31/03
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

2003 Chair – Gary Chapman; 2004 Chair -- Alfred V. Aho
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.

2003 Recipient: Alan Kay, Hewlett-Packard Senior Fellow

Distinguished Service Award

2003 Chair – Hisao Kameda; 2004 Chair – Stuart A. Kurtz
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.

2003 Recipient: Ruzena Bajcsy, University of California, Berkeley, CITRIS

Outstanding Contribution to ACM Award

2003 Chair -- A. Joseph Turner; 2004 Chair – Mary Jane Irwin
This award is given to individuals who are selected on the value and degree of service to ACM.

2003 Recipient: Mark Scott Johnson

Software System Award

2003 Chair – Carlos de Lucena; 2004 Chair – Adel S. Elmaghraby
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.

2003 Recipient: Stuart Feldman, IBM – Make

Grace Murray Hopper Award

2003 Chair – Doris Lidtke; 2004 Chair – Joan Feigenbaum
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 \$5,000. The candidate must have been 35 years or age or less at the time the qualifying contribution was made.

2003 Recipient: Stephen Keckler, University of Texas, Austin

Karl V. Karlstrom Outstanding Educator Award

2003 Chair – Don Bailes; 2004 Chair – Della Bonnette
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.

2003 Recipient: Sartaj Sahni, University of Florida

Paris Kanellakis Theory and Practice Award

2003 Chair - Richard Karp; 2004 Chair – Prabhakar Raghavan

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 Discretionary Fund, and individual contributions.

2003 Recipients: Gary Miller, Carnegie Mellon University
Michael Rabin, Harvard University
Robert Solovay, University of California, Berkeley
Volker Strassen, University of Konstanz, Germany

Doctoral Dissertation Award

2003 Chair – Asit Dan; 2004 Chair – Michael Wellman

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-Verlag.

2003 Recipient: AnHai Doan, University of Illinois
(Dissertation nominated by University of Washington)

2003 Honorable Mentions: Dina Katabi, MIT
Subhash Khot, Princeton University

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.

2003 Recipient: Joseph A. (Josh) Fisher, Hewlett-Packard Senior Fellow

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

ACM/AAAI Allen Newell Award

2003 and 2004 Chair – Edward Shortliffe

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.

2003 Recipients: David Haussler, University of California, Santa Cruz
Judea Pearl, University of California, Los Angeles

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

2003 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).

John B. Bell and Phillip Colella, of the Lawrence Berkeley National Laboratory, were selected as the first winners of this award which was presented the First Joint Meeting of CAIMS (Canadian Applied and Industrial Mathematics Society) and SIAM in Montreal, Canada, on June 17, 2003.

ACM Fellows

2003 Chair – Stuart H. Zweben; 2004 Chair – Bernard Galler

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. Thirty Fellows were inducted at the ACM Awards Ceremony on June 4, 2004 at the Plaza Hotel, in New York, which brings the total number of ACM Fellows to 498. The 2003 Fellows are:

Rakesh Agrawal	Mary Jean Harrold	Kathleen McKeown
Mostafa Ammar	Peter E. Hart	Thomas P. Moran
Victor Bahl	Mark Horowitz	Eugene W. Myers
Bonnie Berger	Paul Hudak	Craig Partridge
Elisa Bertino	H.V. Jagadish	Daniel A. Reed
John Carroll	Anil Jain	Stuart J. Russell
Richard DeMillo	Ramesh Jain	William H. Sanders
Barbara J. Grosz	Niraj Jha	Scott Shenker
Brent Hailpern	Dexter Kozen	Gurindar Sohi
Jiawei Han	Yi-Bing Lin	Cornelis van Rijsbergen

Intel International Science and Engineering Fair (ISEF)

2003 Chair – Charles Dickson, Jr.; 2004 Chair -- Brien Maguire

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 2004 ISEF was held in May 2004, in Portland, Oregon, and ACM was represented by its judges Charles Dickson and Brien Maguire.

The 54th Intel ISEF ACM winners are:

First Place Co-Winners* (\$1,000):

Yuanchen Zhu
Shanghai Foreign Language School
Shanghai, China

Elena Leah Glassman (\$1,000)
Central Bucks High School West
Doylestown, Pennsylvania

Third Place Award (\$300)

Kimberly E. Reinhold
St. Joseph Junior-Senior High School
Hilo, Hawaii

Honorable Mention (\$200)

Taweetham Limpanuparb
Mahidol-Wittayanusorn School
Nakhon Pathom, Thailand

Bruce D. Halperin
Half Hollow Hills High School East
Dix Hills, New York

Sonia Nijhawan
duPont Manual High School
Louisville, Kentucky

*Since the judges selected two first place co-winners, there was no second place winner for 2004.

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; 271 certificates were issued in FY'04.

1.4 Awards Committee Meeting

The Awards Committee meeting was held Friday, June 4, 2004, at ACM Headquarters in New York. Twenty-one people attended the meeting, including several outgoing/incoming subcommittee chairs, and ACM's Public Affairs Coordinator Gini (Virginia) Gold. Highlights of the meeting follow:

Report from the ACM Awards Committee Co-Chairs

Appointments The Co-chairs are in the process of appointing replacements for those subcommittee members whose terms expired December 31, 2003, and are also seeking recommendations to populate the three new Canvassing Committees.

Funding Plan: The Awards Committee has been charged with preparing a funding plan for awards. The reasons for this include the loss or decrease in funding of several awards, and the fact

that support now comes out of the ACM Operating Budget. The following awards have been impacted:

Unisys no longer supports the \$5K for the Grace Murray Hopper Award, Brooks/Cole Thomson Learning's six-year agreement (which was arranged by the original proposers of this award) to fund the Paris Kanellakis Award at \$5K per year has expired.

AAAI has halved its support of the Allen Newell Award to \$5K per year.

Other awards had received initial individual endowments with the expectation that an amount would be received to fund the award for an annual presentation, however, this never materialized.

New Award Proposal

Alan Kay, the 2003 Turing Award winner, proposed a new ACM award "to recognize those people who 'brought visions and ideas to life' so they could be thought about and coevolved." Kay noted that in a field such as ours that combines elements of science, math, and engineering, it would be great to recognize those people who play critical roles other than 'original inventor.'

There was a general consensus that the concept was good, but that there would be problems with implementation. Only two Awards Committee members voted in favor of going forward to Council with the proposal as it currently stands, while ten were opposed.

The Awards Committee would like to see the clarifications resolved, and then would seek additional input from the Committee via email prior to making a recommendation to Council (Council's next meeting is October 10, 2004).

Increasing the Visibility of ACM's Awards

Virginia Gold, ACM's Public Affairs Coordinator, reported on ACM awards and various means of generating more publicity. The Awards program is an asset and reflects well on ACM. With respect to the media aspects, Gold recommended focusing on creating a marketing package which might include a FAQ sheet with guidelines, criteria, deadlines, and lists of past award winners.

Awards Editor in Chief – History Committee

The ACM History Committee had approached the Awards Committee Co-Chairs and invited them to appoint an Awards Editor in Chief. This would be for the Web site, not for a written publication, and the focus would be on the Turing Award winners.

The ACM Awards Banquet

The annual ACM Awards Banquet was held as a stand-alone event on Saturday, June 4, 2004 in the Grand Ballroom at the Plaza Hotel in New York. The reception was hosted by the Intel Corporation.

In the audience of approximately 200 people were 13 of the 30 new Fellows as well as most of the ACM award winners (three of the four Paris Kanellakis winners were not able to attend the banquet: Michael Rabin, Robert Solovay, and Volker Strassen). ACM's President Maria Klawe 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 David Waltz, former AAI President, for the Allen Newell Award.

Other awardees honored at the banquet were the winners of the ACM International Collegiate Programming Contest (ICPC) which took place in Prague in March 2004. The sponsor, IBM, was represented by Gabriel Silberman. The winning team was from the St. Petersburg University of Information Technology, Mechanics, and Optics: Vladimir Parfenov, ERC Director, Andrew Stankevich, Team Coach, and contestants, Dmitri Pavlov, Pavel Mavrin, Sergey Orshanskiy.

In addition, the following winners of the ACM Student Research Competition were recognized: Graduate -- First Place: Michael Swift, University of Washington; Second Place: Petros Maniatis, T.J. Giuli, and Yanto Muliadi, of Stanford University; Third Place: Xinyuan Wang, North Carolina State University. The winner for the Undergraduate Category was Michael Piatek, Duquesne University. Mark Lewin represented Microsoft, the SRC sponsor.