



AWARDS HANDBOOK

*Recognizing Technical
Achievement and Service*

Revised October 2011

**IEEE COMPUTER SOCIETY
AWARDS HANDBOOK**

***Recognizing Technical
Achievement and Service***

October 2011

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1. AWARDS PROGRAM

The IEEE Computer Society sponsors a robust program of awards designed to recognize both technical achievement and service to the society and the profession. In the technical area, recognition may be given for pioneering and significant contributions to the field of computer science and engineering. Service awards may be given to both volunteers and staff for well-defined and highly valued contributions to the society. The Awards Committee must take care to preserve the integrity of the evaluation and selection process to assure that it is both open and rigorous, and that it contributes to the prestige of the society and the award recipients.

The focus of the awards program is the value and quality of the contributions. In most cases there are no eligibility restrictions on the nominee or nominator. The society encourages nominations of and by its members for appropriate IEEE awards. No award is automatic or given by reason of an individual simply holding a position. Nomination forms are available via the Society's website: <http://computer.org/awards> (see *appendix 10.1*).

2. AWARDS COMMITTEE STRUCTURE & RESPONSIBILITIES

2.1 Awards Committee Membership

The Awards Committee shall consist of a chair, appointed by the Society president, and members, including the chairs of all the awards subcommittees and one to three at-large members, appointed by the Awards Committee chair with the concurrence of the Society president. The technical committee awards subcommittee chair shall be appointed in consultation with the vice president for technical and conference activities. The immediate past chair shall be an ex officio, non-voting member. One or more members shall be appointed as vice-chairs of the committee. The number of Awards Committee members may increase or decrease based on the number of awards subcommittees.

The members-at-large should represent a broad cross-section of IEEE-CS membership in terms of representation from industry and the academy, a variety of geographic regions and interests, and gender diversity. Members-at-large have voting privileges.

When appointing subcommittee chairs and members-at-large, the Awards Committee chair will commend the new member for volunteering, reiterate responsibilities for seeking nominations from the technical community, and refer the volunteer to available resources.

2.2 Awards Subcommittees

The general criteria for membership to a subcommittee is that the individual be knowledgeable and experienced in the area being considered for the award. The Awards Committee should take care to assure that each subcommittee is established at a size appropriate to its task; however, in no case shall subcommittees have fewer than three members. Non-chair members of a subcommittee should be discouraged from holding membership on the Awards Committee. When presenting a subcommittee nomination to the Awards Committee, the subcommittee chair shall state in writing that the procedures have been followed with exceptions and reasons duly noted.

The term of a subcommittee chair is three years unless there is a successor plan that has been approved by the Awards Committee chair. Each subcommittee chair may appoint a vice chair who is responsible for serving in the absence of the Chair.

Appointments to membership of a subcommittee shall be for one year. Members shall be reappointed at the discretion of the subcommittee chair. The subcommittee chair shall notify the Awards Committee chair of the membership of the subcommittee. There is no limit to the number of times a person may be reappointed to the subcommittee.

When presenting a subcommittee nomination to the Awards Committee, the subcommittee chair should state in writing that the procedures have been followed with exceptions and reasons duly noted. The awards subcommittees shall consist of, but are not limited to, the following:

- Computer Pioneer Award and Computer Entrepreneur Award Subcommittee
- Seymour Cray Computer Engineering Award and Sidney Fernbach Award Subcommittee
- Eckert-Mauchly Award Subcommittee
- Harry H. Goode Memorial Award, W. Wallace McDowell, and B. Ramakrishna Rau Award Subcommittee
- IEEE Awards Candidate Search
- Tsutomu Kanai Award Subcommittee
- Hans Karlsson Award Subcommittee
- Richard E. Merwin Distinguished Service Award Subcommittee

- Harlan D. Mills Award and IEEE Computer Society/Software Engineering Institute Watts S. Humphrey Software Process Achievement Awards (SPA) Subcommittee
- Education Awards Subcommittee (for the Taylor Booth Education Award, Computer Science & Engineering Undergraduate Teaching Award, and Distinguished Contributions to Public Service in a Pre-College Environment)
- Technical Achievement Award Subcommittee
- Ken Kennedy Award Subcommittee
- Service Awards and Certificates Subcommittee
- Technical Committee Awards Subcommittee

2.3 Awards Committee General Responsibilities

The Awards Committee grants awards in some cases and makes recommendations in other cases. It develops awards plans and recommends policies for the consideration of the Board of Governors and other IEEE bodies as appropriate, and ensures the proper conduct of the awards program, including recommending the modification and/or creation of new awards as needed. The chair and two other members (the division representatives) represent the Society on the IEEE TAB Awards and Recognition Committee to afford liaison to the full IEEE community. The responsibilities of the members-at-large include seeking nominees for awards, recommendations for membership on subcommittees, and ideas for publicity and fund raising. Refer to paragraph 3.1 for the policy on nominations.

2.4 Nomination Solicitations

It is the responsibility of the Awards Committee to assure that there are a sufficient number of qualified nominees for each award, including awards for which external nominations are sought. To facilitate the nominations process, the Awards Committee prepares and includes in the *Awards Handbook* a master schedule of nomination deadlines. This schedule should be reported annually to the Board of Governors at its initial meeting. In addition, the Awards Committee should assure timely coverage of the solicitation for awards in *Computer*, member communications, the Society's website, social media outlets, and elsewhere as appropriate. Nominations procedures should be adequately publicized in *Computer* and elsewhere as appropriate. The Awards Committee chair should also solicit nominations directly from the head of the major program boards, conference organizations, standards groups, and others. For awards in which external nominations are sought and prove insufficient, it is the responsibility of the Awards Committee to develop and implement a plan to encourage additional nominations.

2.5 Confidentiality of Nominees' Identities and Committee Deliberations

The Awards Committee and its subcommittees shall exercise extreme caution to maintain confidentiality in their deliberations, including the identity of nominees. This is especially critical for those awards for which final approval authority rests with the Board of Governors. Until the Board of Governors has disposed of the nomination, and the president has informed the nominee, no word of the committee's recommendation should be given to nominees, nominators, or any other persons.

2.6 Conflict of Interest

Care should be taken to avoid conflicts of interest on the Awards Committee and its various subcommittees. In no case should a nominee for an award serve in any capacity that affects the selection for that award. In addition, the Awards Committee must ensure that in the awards process there is no other conflict of interest, or appearance of conflict of interest.

2.7 Awards Handbook

The Awards Committee shall create and maintain an Awards Handbook, in which detailed procedures for the solicitation, review, and selection of nominees for each award will be set forth. This handbook serves as the primary means of ensuring appropriate quality and continuity in the operation of the several awards subcommittees. The Awards Committee may modify its procedures without Board of Governors approval provided that its procedures are consistent with these policies and procedures and with applicable policies and procedures of the IEEE. The Awards Committee chair is responsible for seeing that a copy of the then-current handbook is made available to each member of the Awards Committee and the Board of Governors at the beginning of each calendar year.

2.8 Publicity for Granted Awards

The Awards Committee should assure timely coverage of the major awards presented by the IEEE Computer Society in *Computer*, member newsletters, other appropriate publications, on the Society website and via social media outlets. Additional steps should be taken by the Awards Committee to assure appropriate publicity with awardees' employers, local communities, alma maters, and other groups associated with the awardees.

3. ADMINISTRATION OF AWARDS

3.1 Who May Nominate?

Anyone may nominate, except for "self-nomination" which is not acceptable (see paragraph 3.4). Award Committee members and members of each subcommittee cannot directly nominate, endorse, or otherwise publicly support nominees; however, members are encouraged to actively seek nominations. While the committee member is not required to recuse herself or himself from debate and voting, the committee member should announce their role in seeking a nomination to the Awards Committee or subcommittee on which they sit.

3.2 How to Nominate

The procedure in proposing candidates for various types of awards varies somewhat. This will be apparent from the forms and the descriptions of the awards and the qualifications by which candidates will be judged. Nomination forms are available online at: <http://computer.org/awards>.

3.3 Schedule of Nomination Deadlines

A schedule of nomination deadlines is established at the beginning of each year by the Awards Committee.

3.4 General Procedures Applying to All Society Awards

The administrative process for all awards administered by the Computer Society shall, to the extent practicable, be uniform.

3.4.1. Eligibility. There are no general eligibility restrictions on nominees, nominators, or endorsers. In particular, neither nominees, nominators, or endorsers need be a member of the IEEE Computer Society or the IEEE. Any individual, who meets the specified criteria for an award, may be nominated and receive the award. No one may nominate himself or herself, except as specified otherwise by the individual award. Franchised members of the Board of Governors are not eligible to nominate, endorse, or receive any Society awards, other than service award certificates. In addition, in conformance with IEEE procedures, posthumous awards shall be made only when knowledge of the awardee's death is received after announcement of the recipient. Nominations of known deceased persons shall not receive consideration, and will be returned to the nominator with a statement of the policy.

3.4.2. Nominations. The Awards Committee shall actively seek nominations for all awards and shall evaluate nominees according to the criteria set forth herein for each award.

Unsuccessful nominations shall not be automatically rolled over to the following year. The subcommittee considering the award may carry forward qualified nominees. The number of nominations to be carried forward should be specified in the current year's recommendation form and the subcommittee chair provide the name(s) of the nominees to the Awards chair and staff.

3.4.3. Communicating with the Nominator. All nominations received by the Awards Committee or any of its subcommittees shall be acknowledged upon receipt, in writing by the chair to the nominator (*Note: All online submissions are acknowledged via a system-generated email to the nominator and subcommittee chair.*) At the time a nomination is completed, a nominator will be asked if he or she wishes to be copied on the notification letter if his or her

nomination is selected, or remain anonymous. If the nomination has not been successful, the subcommittee chair will inform the nominator about the selected award ("the award was given to ...") and if the nominee is left on the list of nominations to be carried forward. (see *paragraph 3.2*).

If the awardee refuses the award or does not notify the Society that she or he accepts the award after diligent efforts from the Society to confirm the acceptance, then the sub-committee overseeing the award should notify the awardee that the award has been withdrawn and may choose another awardee.

3.4.4. Communicating with Nominees - The status and details of a nomination package are to be made available to the nominator of the individual(s) for a given award. No nominee may receive any information regarding a pending nomination. Staff is directed to cite this policy whenever a nominee enquires about the status of his/her nomination.

3.4.5. Selection Process – The criteria for each named award shall be included in the Handbook and publicized on the web. After an initial ranking or “straw vote” of the nominees by subcommittee members, the members should discuss the results and consider other attributes and contributions of the nominees that cannot be captured by a point system. The subcommittee shall have a vote to identify the recommended awardee(s) or decide not to recommend any awardee(s).

If there are less than three nominations for an award and the subcommittee supports a nomination from the small pool of nominations, then the subcommittee chair shall be prepared to defend the subcommittee’s recommendation based on qualifications of the nominee.

3.4.6. Communicating with the Awardee - Special measures are necessary to avoid embarrassing no-show situations at the presentation. Often no single procedure or communication mode suffices for each awardee. The sequence of communications events should be as follows:

- Awardees are notified that they are to receive awards (see *sample in appendix 10.2*). They are given a chance to select a presentation site (and thereby a date).
- Awardees respond to the above notification.
- As soon as presentation details are finalized, the awardee should receive a letter which serves as a reminder, and a formal invitation to the awards luncheon/dinner indicating date, time, location, and other logistical information, as necessary letter (see *appendix 10.3*). This should be early enough for the awardee to make plans and reservations.

3.4.7. Award Presentations – Unless otherwise specified in PPM Sections 12.5 and 12.6, all major awards shall be presented at the Computer Society Annual Awards Ceremony held in conjunction with the Computer Society’s midyear meeting. Exceptions for major awards include the Eckert-Mauchly, Cray, Fernbach, Kennedy and Rau Awards. The other awards may be presented at a major conference or appropriate event, respecting the preferences of the recipient and practical limitations. If an award has been approved by the Awards Committee and the awardee dies before presentation, the award will be given posthumously.

3.4.8. Award Prize Items - All awards shall be memorialized on a certificate or plaque presented to the recipient. Awards may also take additional forms as provided herein.

3.4.9. Publicity - The Awards Committee is responsible for publicity, presentation, and other courtesies to and on behalf of awardees. All awards shall be prominently reported in *Computer*,

and additional steps should be taken by the Awards Committee to assure appropriate publicity with awardees' employers, local communities, *alma maters*, etc.

3.4.10. Award Retirement – The Awards Chair shall assist subcommittee chairs of awards that receive fewer than three nominations in two consecutive years in developing a rejuvenation plan. The Chair may appoint a committee to elicit opinions of stakeholders and make recommendations for a rejuvenation plan or retirement. The Awards Committee shall discuss and vote on retirement for awards that have received fewer than three new nominations in three consecutive years.

3.5 Awards Committee Budget/Expenses

The committee must prepare and submit a budget according to the Society's usual budget development procedures and, once the budget is adopted by the Board of Governors, exercise prudent financial management to assure that the Society's awards program operates within that approved budget.

3.6 Awards For Which the Awards Committee Has Final Approval Authority

The Awards Committee shall solicit nominees, review candidates, and exercise final approval authority for recipients of the following awards:

- **IEEE Computer Society / Software Engineering Institute Watts S. Humphrey Software Process Achievement Award**
- **Distinguished Contributions to Public Service in a Pre-College Environment**
- **Certificate of Appreciation**
- **Meritorious Service Certificate**
- **Outstanding Contribution Certificate**
- **Distinguished Service Certificate**
- **Continuous Service Award**
- **Standards Activities Service Award**
- **Technical Committee Recognition and Service Awards**

For these awards, the Awards Committee chair shall be responsible for notifying awardees and for notifying nominators of the disposition of their nominations.

3.7 Major Awards Approved by the Board of Governors

The Computer Society Awards Committee shall, for each of the following awards, solicit nominees, review candidates, and recommend nominees to the Board of Governors for final approval:

- **Taylor L. Booth Education Award**
- **Computer Entrepreneur Award**
- **Computer Pioneer Award**
- **Computer Science & Engineering Undergraduate Teaching Award**
- **Seymour Cray Computer Engineering Award**
- **Sidney Fernbach Award**
- **Harry Goode Memorial Award**
- **Tsutomu Kanai Award**
- **Hans Karlsson Award**

- **Harlan D. Mills Award**
- **Richard E. Merwin Distinguished Service Award**
- **W. Wallace McDowell Award**
- **B. Ramakrishna Rau Award**
- **Technical Achievement Award**

Members of the named award subcommittees shall not participate in the nomination or seconding of, or serve as references for, candidates for the award(s) of the subcommittee(s) on which they serve. The selection of recipients of all of the above-named awards shall be made by the Board of Governors after disclosure of the nominees and discussion of the merits of the nominations in executive session with the Awards chair. The Board of Governors may select a recipient from the nominees presented or refer the award back to the Awards Committee for further consideration, including the consideration of additional candidates suggested by the board. In presenting the recommendations of the Awards Committee, the committee chair should present a written statement presenting the specific contributions of each award recipient recommended to the board, should describe the nomination solicitation and review process guidelines for each award, and either certify that those procedures were followed or document any exceptions made and the reasons therefore. The president shall notify awardees as soon as possible after board action. The Awards Committee chair shall notify all nominators of the final disposition of their nominations *after* the president has notified the awardees.

3.8 Named Awards Presented Jointly with ACM

Joint IEEE Computer Society-ACM subcommittees shall seek nominations and select nominees for the Eckert-Mauchly Award and the Ken Kennedy Award.

3.9 Administration of Technical Committee Awards

Computer Society PPM Section 12.7 specifies the procedures for establishment of new technical committee recognition or service awards, or revision of existing awards.

4. SERVICE AWARDS

Service awards are intended to recognize service to IEEE Computer Society programs and activities, and to the profession, as opposed to technical achievement.

4.1 Richard E. Merwin Award for Distinguished Service

Contribution: Outstanding volunteer service to the profession at large, including significant service to the IEEE Computer Society or its predecessor organizations. The award is for service as opposed to technical achievement.

Eligibility: The Richard E. Merwin Award is the highest level volunteer service award of the Society, and the highest selection criteria are to be maintained. No current or past Society president shall be eligible until four years after completion of presidential service.

Nominator: Anyone can nominate.

Award: Bronze medal and \$5,000 honorarium. Funds for travel to the presentation site, if necessary, will be provided for the awardee and one companion.

Administration: The Merwin Subcommittee shall solicit candidates and make the preliminary selection.

Nomination Deadline: 15 October

4.2 Certificate of Appreciation (CA)

Contribution: Creditable service to any Society activity or program. Awards signed by the function chair certify the function's appreciation for services performed by individuals. Areas of contribution would include service with a conference organizing or program committee. It can be given to subcommittee members in lieu of a letter of appreciation.

Administration: Awards Committee approval of intra-function (within a single program or activity) CAs is not required. If the nominator is not responsible for the function, candidates must be endorsed by the function or committee chair or an appropriate officer. Certificates signed by the president are to certify the Society's appreciation for the services performed by the individual and shall be approved by the Awards Committee.

4.3 Meritorious Service Certificate (MS)

Contribution: Significant service to any Society-sponsored activity may qualify in whole or in part. Qualification is enhanced by the level and number of contributions, excellence, dedication, and tenure of service. Areas of contributions include any significant role in one activity such as an editorship, committee or conference support of unusual and/or continuing nature, and service as Society officer, committee or conference general or program chair.

Administration: Certificates are signed by the president and shall be approved by the Awards Committee.

4.4 Outstanding Contribution Award (OC)

Contribution: An achievement of major value and significance to the IEEE Computer Society. The achievement should be a specific, concisely characterized accomplishment, as opposed to a collection of different efforts. Examples could include the successful launching of major conference series, publications, standards and model curricula. A group OC award may be given for a major contribution in which a number of volunteers each made significant contributions, e.g., the Model Curriculum Special Award. Certificates bearing all names would be awarded.

Administration: Certificates are signed by the president and shall be approved by the Awards Committee.

4.5 Distinguished Service Award (DS)

Contribution: The highest service award certificate in recognition for long and distinguished service to the IEEE Computer Society at a level of dedication and achievement rarely demonstrated. Often includes service in several capacities, and positions of significant Society responsibility, with contribution levels justifying multiple Meritorious Service Certificates or higher. Areas of contributions might include initiating a Society program or conference, or long-term and active service on Society committees.

Administration: Certificates are signed by the president and shall be approved by the Awards Committee.

4.6 Continuous Service Award

Contribution: Credible service to any society activity or program of a continuous nature. The nominee should have been contributing for at least two years and his/her future involvement should be likely. Service may be within a single role over multiple years, or reflect changes of roles within the society.

Eligibility: All current IEEE Computer Society volunteers.

Nominator: Initial nomination should be from the program or activity leadership, or the vice president responsible for the nominee's area of work. No further endorsements are required.

Administration: Awards Committee approval of the initial award followed by annual renewal based on the confirmation of the chair or leader of the associated program. The citation should indicate the general area of contribution so that rotation through various jobs can be recognized in this context as appropriate. For example, *"For ongoing volunteer service to the IEEE Computer Society"*, and for each year, indicated the area of involvement and role.

Award: Certificates are signed by the president and shall be approved by the Awards Committee.

4.7 Golden Core Recognition Program

Contribution: Long-standing member or staff service to the society. Each year the Awards Committee will select up to a maximum number of 50 recipients from nominated candidates and permanently include names in the Golden Core Member master list.

Eligibility: All current IEEE Computer Society members or staff. A Golden Core member must have received one of the following:

- Meritorious Service Award,
- Outstanding Contribution Award,
- Distinguished Service Award,
- Richard E. Merwin Award,
- Harry Hayman Award;

or must have served in one of the following capacities:

- Staff member with five years tenure,
- Board of Governors members,
- Executive Committee member,
- President.

Administration: The recognition program shall be administered and funded by the Awards Committee. An annual list of awards will be provided to the Awards Committee in early January by the Computer Society staff.

Recognition: The recognition will consist of a Golden Core pin and plaque signed by the president. Presentation of the recognition may be at an appropriate function designated by the president or by mail. Individual names will be included in a master list on the Society's website and publicized in accordance with Awards Committee responsibilities for publicity reaching the IEEE Computer Society membership.

4.8 Service Awards for the Standards Activities Board

1. The nominator is responsible for recognizing and selecting the appropriate award situation. The nominator gathers any endorsement required. The nominator forwards the nomination to the approver.
2. The approver certifies that the appropriate award situation has been selected. For Outstanding Contribution Award certificates, the approver must gain the concurrence of the Awards Committee member delegated responsibility for standards-related awards. The approver forwards the nomination to staff. The approver should also indicate the manner in which presentation of the award will be accomplished.
3. Staff prepares the certificate using the default citation. The nominator and the approver may choose alternative language for the citation. The alternative language should describe a level of service and recognition comparable to that of the default citation.
4. If the service counts as a "creditable," then staff appropriately records the activity for application to the term service awards.
5. The SAB awards chair administratively converts "Certificate of Appreciation" nominations to "Continuing Service" awards upon the accumulation of three consecutive years of creditable service. No other approval is needed for this.
6. The *Meritorious Service* and *Distinguished Service Award certificates* recognize longevity of service in creditable activities. The SAB Awards Chair should regularly develop a list of individuals serving in creditable activities for the prescribed periods of time and forward the

list for consideration to the CS VP for Standards Activities and related sponsor chair(s). Both awards require the approval of the VP for Standards Activities of the Computer Society and the Awards Committee.

	*Award Situation	*Nomination Responsibility	Endorsement Required	*Approval Responsibility	*Appropriate Award	*Default Citation	*Creditable Activity
1	All participation in a standards project, except as otherwise noted below. (This certificate will be presented in a folder rather than a plaque.)	WG Chair	None	Sponsor Chair	Certificate of Appreciation signed by the Sponsor Chair	For contribution to the development of IEEE Std <number>	No
2	Appointed or elected officer (e.g. project editor, ballot reviewer, secretary, sub-group chair, etc) of a Working Group which has completed a standards project, and who has performed at a level of commitment and effort similar to that of the WG Chair.	WG Chair	Sponsor Chair	CS VP of Standards	Certificate of Appreciation signed by the CS VP of Standards	For leadership in the development of IEEE Std <number>	Yes
3	Appointed or elected officer (e.g. project editor, ballot reviewer, secretary, sub-group chair, etc) of a Working Group which has completed a standards project, except as otherwise noted below	WG Chair	Sponsor Chair	CS VP of Standards	Outstanding Contribution Award	For outstanding technical and leadership contributions as the project editor of IEEE Std <number>	Yes
4	Chair of a Working Group that successfully completes a standard	Sponsor Chair	Yes	CS VP of Standards	Outstanding Contribution Award	For outstanding technical and leadership contributions as the chair of the working group developing IEEE Std <number>	Yes
5	Appointed or elected officer of a sponsor diligently discharging duties for a year or more, except as noted below	Sponsor Chair	No	CS VP of Standards	Certificate of Appreciation signed by the CS VP of Standards	For leadership in <sponsor> as <position>	Yes
6	Appointed or elected officer of a sponsor providing a significant contribution	Sponsor Chair	Yes	CS VP of Standards	Outstanding Contribution Award	For outstanding contribution to <sponsor> in <whatever>	Yes
7	Author of a standards book endorsed by a sponsor	Sponsor Chair	Yes	CS VP of Standards	Outstanding Contribution Award	For outstanding contribution to <sponsor> in writing <whatever>	Yes
8	Chair of a Sponsor completing a term of office and gaining approval of one or more standards during that term of office	Any member of SAB other than the VP of Standards or the award recipient	Yes	CS VP of Standards	Outstanding Contribution Award	For outstanding leadership as chair of <sponsor>	Yes

9	Individual actively serving as a member of the Standards Activity Board	Any member of SAB other than the VP of Standards or the award recipient	No	CS VP of Standards	Certificate of Appreciation signed by the CS VP of Standards	For service as a member of the Standards Activity Board during <year(s)>	Yes
10	Individual serving as an officer or committee chair of the Standards Activity Board, and making a significant contribution	Any member of SAB other than the VP of Standards or the award recipient	Yes	CS VP of Standards	Outstanding Contribution Award	For outstanding leadership contributions to the Standards Activity Board during <year>	Yes
11	Individual actively serving as a member of the IEEE-SA Board of Governors, the IEEE-SA Standards Board, or one of its committees	Any member of SAB other than the VP of Standards or the award recipient	No	CS VP of Standards	Certificate of Appreciation signed by the CS VP of Standards	For service as a member of the IEEE-SA <board or committee name>, <year(s)>	Yes
12	Individual serving as an Officer or Committee Chair of the IEEE-SA Board of Governors or the IEEE-SA Standards Board, and making a significant contribution	Any member of SAB other than the VP of Standards or the award recipient	Yes	CS VP of Standards	Outstanding Contribution Award	For outstanding contributions to the IEEE-SA <board or committee name>, <year(s)>	Yes
13	Other Situations	Follow normal awards process. See http://computer.org/awards/					
14	Meritorious and significant service to any Society-sponsored activity. (Qualification is enhanced by the level and number of contributions, excellence, dedication and tenure of service.)	Follow normal awards process. See http://computer.org/awards/			Meritorious Service Award certificate		
15	Long and distinguished service to the Computer Society at a level of dedication and achievement rarely demonstrated	Follow normal awards process. See http://computer.org/awards/			Distinguished Service Award certificate		
16	Recognition of outstanding skills and dedication to diplomacy, team facilitation and joint achievement in the development or promotion of standards in the computer industry where individual aspirations, corporate, and organizational rivalry could otherwise be counter to the benefit of society	Contact Awards Committee chair for Hans Karlsson Award			Hans Karlsson Award		

Legend

<u>Award Situation:</u>	Summarizes the categories of activities covered by this procedure.
<u>Nomination Responsibility:</u>	Prescribes the individual responsible for initiating the award nomination.
<u>Endorsement Required:</u>	Indicates whether endorsement from another person is required; in some cases , a specific individual is designated.
<u>Approval Responsibility:</u>	Prescribes the individual responsible for approving an award using this procedure.
<u>Appropriate Award:</u>	Prescribes the award appropriate to the situation.
<u>Default Citation:</u>	Prescribes the citation to be used on the award except for situations where the nominator and the approver agree on alternative wording.
<u>Creditable Activity:</u>	Indicates whether the service recognized by the award is creditable for Meritorious Service and Distinguished Service Award certificates.

5. EDUCATION AWARDS

As with other society programs and activities, the various service awards may be presented to an individual or group for particular educational activities.

5.1 Taylor L. Booth Education Award

Contribution: Outstanding record in computer science and engineering education, as established by some of the following: achieving recognition as a teacher of renown in a relevant and applicable course; writing an influential text in computer science and engineering; leading, inspiring, or providing significant educational content during the creation of a curriculum in the field; inspiring others to a career in computer sciences and engineering education.

Award: Bronze medal and \$5,000 honorarium, usually presented to a single recipient. Travel funds will be provided, if necessary, to assure that the awardee can travel to the annual awards ceremony. Usually presented to a single recipient. A brochure featuring the awardee's contributions is prepared and distributed at the presentation.

Administration: The Education Awards Subcommittee shall solicit candidates and make the preliminary selection. The prospective candidate(s) shall be presented to the Awards Committee for discussion and recommendation, and to the Board of Governors for approval.

Nomination Deadline: 15 October

5.2 Computer Science and Engineering Undergraduate Teaching Award

Contribution: To recognize outstanding contributions to undergraduate education through both teaching and service. This award should focus our interest on undergraduate education, as well as affirm our support for excellence in undergraduate education. The participation of local entities should help to maintain interest, increase the visibility of the society, and make a statement about the importance with which we view undergraduate education.

Eligibility: A faculty member in a degree program in computer science, computer engineering, computer information systems, or a similar program.

Award: Certificate, and \$2,000 honorarium. Travel funds will be provided, if necessary, to assure that the awardee can travel to the annual awards ceremony.

Administration: The Awards Committee chair, with the concurrence of the vice president for educational activities, shall appoint a subcommittee chair.. The prospective candidate will be presented to the Awards Committee for discussion and recommendation, and the Board of Governors for approval.

Nomination Deadline: 15 October

5.3 Distinguished Contributions to Public Service in a Pre-College Environment

Contributions: To further the professional and technical goals of the IEEE Computer Society in a pre-college environment.

Eligibility: Open to all, with one award per year.

Nominator: Anyone may nominate. Nominations must include specific information on activities for at least five years and be accompanied by at least two endorsement letters.

Award: Plaque.

Administration: The Education Awards Subcommittee shall solicit nominations and make the preliminary selection.

Nomination Deadline: 15 October

6. TECHNICAL AWARDS

6.1 Computer Entrepreneur Award

Contribution: The Computer Entrepreneur Award recognizes managers and leaders that are responsible for the growth of some segment of the computer industry, or technical managers whose entrepreneurial leadership built the computer industry. The efforts must have taken place sufficiently long ago to observe the benefits and foresee the impact on the community.

Award: Certificate and museum-quality sterling silver chalice.

Administration: The Computer Pioneer Award and Computer Entrepreneur Award Subcommittee shall solicit candidates and make the preliminary selection for both awards. The Subcommittee may select up to four nominees for the Computer Pioneer Award. Appointment of previous Computer Pioneer Award recipients to serve on the subcommittee is strongly encouraged, but not required.

Nomination Deadline: 15 October

6.2 Computer Pioneer Award

Contribution: The Computer Pioneer Award recognizes significant contributions to concepts and developments in the electronic computer field which have clearly advanced the state of the art in computing. The contributions must have taken place 15 or more years earlier.

Award: Gold medal. Up to four awards, including co-awardees if necessary, may be presented annually. Travel funds will be provided, if necessary, to assure that the awardees and one companion each can travel to the annual awards ceremony.

Administration: The Awards Committee shall solicit candidates throughout the year. The Chair of the Pioneer subcommittee shall exercise diligent efforts to invite previous Pioneer Award recipients to serve on the Computer Pioneer Award and Computer Entrepreneur subcommittee. The subcommittee shall make the preliminary selection of up to four nominees for the award. The prospective candidate(s) will be presented to the Awards Committee for discussion and recommendation, and to the Board of Governors for approval.

Nomination Deadline: 15 October

6.3 Conference Best Paper Award

Awards (for Papers Presented at Society Sponsored or Cosponsored Conferences)

Contribution: The Outstanding Paper Award recognizes the most outstanding contribution to the state of the art within the scope of the conference. The paper containing the contribution must be presented at the conference by one of its authors and published in the conference record or proceedings.

Award: Certificate for each author and \$200-500, the amount to be determined by the conference, to be equally divided in the case of multiple authors. The award may be announced at the conference where it is chosen or may be announced after the conference. The award should be presented at the next conference in the series, if possible, or at one of the sponsoring society's major conferences.

Administration: Selection committee appointed by the appropriate conference program committee and proceeding as outlined in the Awards Committee Procedures.

Funding: Funding for such awards is to be included in the approved operating budget for the conference.

6.4 Eckert-Mauchly Award

Contribution: Outstanding contributions to the field of computer architecture.

Award: Certificate and honorarium of \$5,000 to be normally presented at the International Symposium on Computer Architecture (ISCA).

Administration: The award is administered by a committee composed equally of members from the ACM and the IEEE Computer Society. The chair is an additional appointee rotated yearly between ACM (even year) and the Computer Society (odd year). Computer Society appointees to the committee (and the chair) are selected by the Awards Committee chair with the concurrence of the president. The Committee's choice for the award is reported to the Awards Committee by its representative to the joint committee for consideration and recommendation to the president, whose approval shall constitute concurrence on behalf of the society. Such concurrence shall be reported to the Board of Governors at its next regular meeting.

Funding: The Computer Society is obligated to fund one-half of the cash award, and the certificate expense unless it is covered by the Computer Architecture Symposium. The symposium will supply travel funds, if necessary, to assure that the awardee can attend the symposium presentation.

Nomination Deadline: 30 March

6.5 Sidney Fernbach Award

Contribution: Outstanding contribution in the application of high performance computers using innovative approaches.

Eligibility: Open to all.

Nominator: Anyone may nominate. Nominations will be specifically solicited from the SC conference committee.

Award: Certificate and \$2,000 honorarium to be normally presented at the SC conference. Travel funds will be provided, if necessary, to assure that the awardee can travel to the site where the award will be presented. The awardee will normally be invited to present a paper at SC. This award shall be presented by the IEEE Computer Society President or his designee. A brochure featuring each recipient's contributions shall be produced for the award ceremony.

Administration: The Sidney Fernbach Award Subcommittee shall consist of a subcommittee chair and six members. The Awards Committee Chair will appoint the subcommittee chair from candidates submitted by the SC Conference Committee. The remaining six members of the subcommittee shall be selected by the appointed subcommittee chair as follows: four of the members shall be chosen from the SC conference committee; the other two members will be

selected from members of the editorial boards of appropriate Computer Society magazines and journals pending approval of the Awards Committee Chair. The Sidney Fernbach Award subcommittee shall select prospective candidates for presentation to the Awards Committee for discussion and recommendation. Subsequently, the Awards Committee will submit a nomination to the Board of Governors for approval.

Nomination Deadline: 1 July

6.6 Harry Goode Memorial Award

The Harry Goode Memorial Award was originally presented by AFIPS as an annual award to honor and encourage outstanding contributions to the information processing field. Upon the dissolution of AFIPS in 1990 the Computer Society agreed to assume responsibility for the continuation of the award.

Contribution: Recipients are selected on the basis of achievements in the information processing field which are considered either a single contribution of theory, design, or technique of outstanding significance, or the accumulation of important contributions on theory or practice over an extended time period, the total of which represents an outstanding contribution.

Eligibility: Open to all.

Award: A bronze medal, \$2,000 honorarium, and travel expenses if necessary, for the awardee and one companion, to the site where the award will be presented.

Administration: A subcommittee of the Awards Committee shall solicit candidates and make the preliminary selection. The prospective candidate(s) will be presented to the Awards Committee for discussion and recommendation, and to the Board of Governors for approval.

Funding: Awards Committee budget.

Nomination Deadline: 15 October

6.7 Tsutomu Kanai Award

Contribution: Presented in recognition of major contributions to the state-of-the-art distributed computing systems and their applications.

Award: Certificate, crystal memento, and \$10,000 honorarium. In addition, the recipient will receive a travel grant of up to \$5,000 to cover reasonable and customary expenses to attend two technical conferences. Travel funds will be provided, if necessary, to assure that the awardee can travel to the annual awards ceremony.

Administration: The Kanai Award Subcommittee shall solicit candidates throughout the year and make the preliminary selection. The prospective candidate(s) will be presented to the Awards Committee for discussion and recommendation, and to the Board of Governors for approval.

Funding: This award was funded from an endowment provided by the Hitachi Corporation, in honor of Tsutomu Kanai.

Nomination deadline: 15 October

6.8 Hans Karlsson Award

Contribution: Presented in recognition of outstanding skills and dedication to diplomacy, team facilitation and joint achievement, in the development or promotion of standards in the computer industry where individual aspirations, corporate competition, and organizational rivalry could otherwise be counter to the benefit of society.

Eligibility: Open to all.

Nominator: Anyone may nominate. Nominations will be specifically solicited from the Computer Society Standards committees.

Award: Plaque and \$2,000 honorarium. Travel funds will be provided, if necessary, to assure that the awardee can travel to the annual awards ceremony.

Administration: The Awards Committee, in consultation with the Computer Society Standards Activities Board, shall appoint a subcommittee of the Awards Committee to solicit candidates and make the preliminary selection.

Nomination Deadline: 15 October

6.9 Lance S. Larson Outstanding Student Paper Award

Contribution: The Lance S. Larson Outstanding Student Paper Award recognizes outstanding papers on computer-related subjects.

Eligibility: Undergraduate students.

Award: Cash prize of \$500 to first place winner. First, second, and third place winners will also receive a writing implement (such as a cross pen with the Computer Society logo), and a certificate.

Administration: Conducted annually by the IEEE Computer Society. Judged on technical content (merit), on skill with which the papers are written, and on presentations of the papers. Entries should be solicited through notices in *Computer* and *Potentials*.

Publicity: Names and photographs of winners will be published in *Computer*.

Funding: IEEE Foundation Lance Stafford Larson Memorial Fund established in 1983 by the Larson family in memory of Lance Larson, an undergraduate student who died in a electrical accident while at the University of Maryland.

6.10 W. Wallace McDowell Award

Contribution: Outstanding recent theoretical, design, educational, practical, or other similar innovative contribution that falls within the scope of Computer Society interest. The award may be given for a single contribution of great merit or a series of lesser contributions that have had or are expected to have an important influence on the computer field. The W. Wallace McDowell award is the one of the highest technical award made solely by the Computer Society where selection of the awardee is based on outstanding technical accomplishment and achievement.

Eligibility: Open to all.

Nominator: Anyone may nominate.

Award: Certificate and \$2,000 honorarium. Usually presented to a single recipient. Travel funds will be provided, if necessary, to assure that the awardee can travel to the annual awards ceremony.

Administration: The Goode and McDowell Subcommittee shall solicit candidates and make the preliminary selection. The prospective candidate(s) will be presented to the Awards Committee for discussion and recommendation, and to the Board of Governors for approval.

Funding: A fund originally established by IBM in honor of W. W. McDowell in the IEEE Foundation had covered all expenses incurred, including travel funds to ensure that the recipient and one companion can attend the presentation ceremonies.

Nomination Deadline: 15 October

6.11 IEEE Computer Society / Software Engineering Institute Watts S. Humphrey Software Process Achievement Award

Contribution: IEEE Computer Society/Software Engineering Institute Watts S. Humphrey Software Process Achievement Awards (SPA) are presented to recognize outstanding achievements in improving an organization's ability to create and evolve software-dependent systems.

Eligibility: An SPA Award may be presented to an individual, group or team. Nominees are most often employees of an organization that produces, supports, enhances or provides software-dependent systems. However, the Nominee's work may have been undertaken in alternative contexts: for example, within an organization that produces, supports, enhances or provides software engineering or process improvement-related services or within an association supporting improvement-community activities. In these latter cases, the Target Organizations (i.e., the organizations affected by the Nominee's work) will be different from the Nominee's Organization. Because software engineering and process improvement are normally a group activity, a Nominee is usually a team of professionals. However, to recognize work within small organizations, or within organizations that do not formally define a software engineering or process improvement-related team, a Nominee may be an individual or a small, informal, group of individuals. The Nominee's Organization and the Target Organizations may be for-profit, not-for-profit or non-profit; may be industrial, academic, government organizations or foundations; and need not be based in the United States.

Nominator: There are no restrictions upon who may submit a nomination. In particular, Nominees may nominate themselves. All nominations must be seconded by the senior executive of the Nominee's Organization and pertinent Target Organizations, and supported by a two-page

description of the achievement accompanied by up to ten pages of supporting graphs, figures, tables, data and notes.

Award Criteria: The Nominee's software engineering or process improvement work must, to an exceptional degree, be *significant, sustained, measured* and *shared*:

- To be *significant*, the work must have a demonstrated impact on the Target Organizations' software-related processes. Although the work's focus will be upon the Target Organizations' software development and maintenance processes, it should also at least consider, as pertinent, the impact on the Target Organizations' management, workforce, and system development and maintenance processes.
- To be *sustained*, the work must lead to a continuing impact on the Target Organizations' software-related projects. In particular, the work should result in well-documented support for effective, efficient, accurate process performance and continuous software engineering or process improvement.
- To be *measured*, the work must include the collection of data which are used to guide the work and clearly demonstrate its impact. Concrete improvement goals, factors and metrics must be defined. The work must involve assessing the cause-and-effect relationship between changes and their impact.
- To be *shared*, the insights, experiences and proven practices stemming from the work must have been made available beyond the Target Organizations. This could, for example, be to other parts of larger organizations within which the Target Organizations are sub-units. It could, additionally or alternatively, be throughout software engineering or process improvement communities in which the nominee and Target Organizations participate.

Award: The Awardees shall be announced and recognized by the IEEE Computer Society and the Software Engineering Institute (SEI). The Awardees will receive an engraved, commemorative plaque presented at the annual International Conference on Software Engineering (ICSE) or a similar event. The Awardees will be required to produce a technical report describing their accomplishments, to present a paper at the Annual Software Engineering Process Group (SEPG) Conference or a similar event, and will receive a total honorarium of \$1,500.

Administration: The Awards Committee, in consultation with the chair of the Technical Council on Software Engineering (TCSE) and the Director of the SEI, shall appoint the chair of the SPA Award subcommittee. The chair of the subcommittee shall appoint at least four additional members of the subcommittee – so that the subcommittee consists of at least five senior, knowledgeable, experienced software engineering or process improvement professionals – in consultation with the chair of the Computer Society Awards Committee. Nominations shall be submitted to the award subcommittee, which shall review and rank each qualified nomination according to the criteria set forth for the award. After selecting potential Awardees, the subcommittee may visit and/or interview the potential Awardees organizations, and may recommend one or more Awardees to the Awards Committee and the SEI for approval.

Funding: The Awards Committee budget covers expenses incurred in advertising for nominations, publicizing the names of the Awardees, and providing the engraved plaques. The SEI will provide assistance to Awardees in preparing talks and reports on their achievement and will pay the \$1,500 honorariums. The SEI may also provide additional advertising and publicity for the award. It is expected that the potential Awardee's organizations will bear the cost of site visits, if necessary. Costs of site visits may also be partially covered by the SEI.

Nomination Deadline: 15 October

6.12 Technical Achievement Award

Contribution: Outstanding and innovative contributions to the fields of computer and information science and engineering or computer technology, usually within the past 10, and not more than 15, years. Contributions must have significantly promoted technical progress in the field. In addition, a TC may nominate Technical Achievement Awards in the name of a TC.

Eligibility: Open to all, except for candidates receiving major awards in the same area.

Nominator: Anyone can nominate.

Award: Certificate, \$2,000 honorarium, and travel expenses, if necessary, for awardee, and a companion, to receive the award. Up to five awards may be made annually, plus co-awards, if necessary.

Administration: The Technical Achievement Awards shall be administered by the Awards Committee with the appropriate input and support from the relevant technical areas and technical committees. Selection is by the Awards Committee.

Funding: Awards budget.

Nomination Deadline: 15 October

6.13 Seymour Cray Computer Engineering Award

Contribution: For innovative contributions to high performance computing systems that best exemplify the creative spirit demonstrated by Seymour Cray.

Administration: The Awards Chair shall appoint a subcommittee of the Awards Committee to solicit candidates and make the preliminary selection. The prospective candidate(s) will be presented to the Awards Committee for discussion and upon recommendation, forwarded to the Board of Governors for approval.

Award (Prize Items): Crystal memento, and honorarium of \$10,000. Travel expenses will be provided, if necessary, for the awardee(s) and companion, to the site where the award will be presented. This award will be presented by the President of the Computer Society.

Funding: This award was initially funded from an endowment provided by the Silicon Graphics Inc., in honor of Seymour Cray. The Awards Committee budget currently funds the award.

Nomination Deadline: 1 July

6.14 Harlan D. Mills Award:

Contribution: To recognize researchers and practitioners who have demonstrated long-standing, sustained, and meaningful contributions to the theory and practice of the information sciences, focusing on contributions to the practice of software engineering through the application of sound theory.

Administration: The Harlan Mills / IEEE CS/Software Engineering Institute Watts S. Humphrey Software Process Achievement Award subcommittee shall solicit candidates and make the preliminary selection.

Eligibility: Open to all. Achievements should demonstrate a sustained body of work in software engineering theory and practice.

Award: Award plaque and \$3000 honorarium to be normally presented at the International Conference on Software Engineering. The awardee may be invited to give a talk at the conference. One recipient, awarded annually, as appropriate. Travel funds will be provided, if necessary, to assure that the awardee can travel to the site where the award is being presented.

Funding: Awards budget.

Nominee Solicitation: There will be an annual Call for Nominations distributed throughout the IEEE/CS and software engineering communities.

Selection Committee: The Selection Committee is a subcommittee of the Awards Committee, and the chair of the Selection Committee is a member of the Awards Committee.

Schedule: The deadline for nominations is in October. The Selection Committee recommendation is due to the Awards Committee prior to the Board's February meeting.

Selection: Criteria are as stated in the award description above. The winner would be generally recognized in the software engineering community for achieving the results stated and for encouraging and teaching others to do the same.

Presentation: The nominal venue for the award ceremony and invited talk would be the annual ICSE. The award would be presented in the name of IEEE/CS, with suitable recognition to those funding the award.

Publicity: The announcement of the award recipient will be published in *Computer*.

Nomination Deadline: 15 October

6.15 Ken Kennedy Award

Contribution: To recognize outstanding contributions to programmability and productivity in computing and substantial community service or mentoring contributions.

Award: Certificate and honorarium of \$5,000 to be normally presented at the SC conference. The awardee shall be invited to present a paper at the SC conference, or at an ACM or IEEE conference of the winner's choosing, during the year following the announcement. Travel expenses of the recipient and one companion to attend the presentation ceremonies at a conference shall be borne by the conference. A brochure featuring each recipient's contributions shall be produced for the award ceremony.

Administration: The award shall be administered by a six member committee composed equally of members from the ACM and the IEEE Computer Society. Terms are for three years, with one of the three members (of each society) changing each year. The chair shall be an additional appointee rotated yearly between ACM (odd year) and the IEEE Computer Society (even year). The Committee's choice for the award shall be reported to the Awards Committee by its representatives to the joint committee for consideration and recommendation to the

president, whose approval will constitute concurrence on behalf of the society. Such concurrence shall be reported to the Board of Governors at its next regular meeting.

Funding: This award shall be funded from an endowment of \$100,000 with equal contributions from ACM and the IEEE Computer Society. The endowment shall be administered by the IEEE Foundation.

Nomination Deadline: 1 July.

6.6 B. Ramakrishna Rau Award

Established in memory of B. Ramakrishna Rau, and awarded in recognition of his distinguished career in promoting and expanding the use of innovative computer microarchitecture techniques, including his innovation in compiler technology, his leadership in academic and industrial computer architecture, and his extremely high personal and ethical standards.

Contribution: Recipients are selected "in recognition of substantial contributions in the field of computer microarchitecture and compiler code generation." The candidate will have made an outstanding, innovative contribution or contributions to microarchitecture, use of novel microarchitectural techniques or compiler/architecture interfacing. It is hoped, but not required, that the winner will have also contributed to the computer microarchitecture community through teaching, mentoring, or community service.

Award: This award will consist of a certificate and a \$2,000 honorarium. The winner will be announced and invited to present a paper and/or presentation at the ACM/IEEE International Symposium on Microarchitecture normally held in December. The Rau award will be presented annually and honored to a single recipient.

Administration: A subcommittee of the Awards Committee shall solicit candidates and make the preliminary selection. The prospective candidate(s) will be presented to the Awards Committee for discussion and recommendation, and to the Board of Governors for approval.

Funding: The IEEE Foundation administers the Rau Award endowment, initially funded by \$15,000 from private contributors, \$10,000 from Hewlett-Packard Corporation, and \$5,000 from the Technical Committee on Microprogramming and Microarchitecture.

The IEEE Computer Society's contribution is \$20,000. Beginning in 2011, the Society will fund each \$2,000 award honorarium from the awards annual operating budget until the \$20,000 contribution is paid. Certificate, brochure and future honorarium expenses, will be paid from the IEEE Foundation endowment. The ACM/IEEE CS International Symposium on Microarchitecture (MICRO) pays awardee travel expenses to attend the award presentation.

Nomination Deadline: 1 July

7. AWARDS TO PAID STAFF

Generally all service awards are open to all paid society staff members whose contributions qualify. There are important provisos, however, and operational variants pertaining to the nomination and approval procedures. Staff and volunteers should be kept aware of the intent and scope of awards program as it applies to staff. For example, awards will generally not be given for the excellence in performance of normal responsibilities, for which normal compensation methods exist. The contribution must be exceptional relative to the type and/or level of accomplishment for which the society compensates the employee at present or for which it might reasonably do so in the near future, via promotion or other change in assigned responsibilities. The achievement should also be distinctly apparent to the employee's peers and appropriate staff and volunteer management. Most importantly, awards to staff shall not be used in lieu of normal forms of compensation. In order to minimize sensitivity or management problems, the nomination and review processes must include consultation with appropriate senior staff managers, including the Society Executive Director.

7.1 Harry Hayman Award for Distinguished Staff Achievement

Contribution: Long and distinguished service of an exemplary nature in the performance of duties over and above those called for as a regular employee of the society.

Eligibility: Current IEEE Computer Society staff members of long standing.

Nominator: Anyone can nominate.

Award: Plaque and a \$5,000 honorarium. A brochure featuring each recipient's contributions shall be produced for the award ceremony.

Presentation: At an appropriate function specified by the president.

Administration: This award is an exception to general awards practices in that nominees are considered and approved by the Society's Executive Committee. Nominations should be made to that body through the president. However, the Awards Committee will assist in the logistics of the process, including the preparation of the brochure.

8. IEEE AWARD SUPPORT

The IEEE sponsors awards in areas of interest to the Computer Society. It is the responsibility of the Awards Committee to ensure that the society seeks out both nominators and candidates for these awards, and that appropriate, timely nominations are made to the appropriate body of the IEEE. In addition, many IEEE and other IEEE technical society awards (see *IEEE Awards Guide*) exist for contributions made directly or indirectly to the field of computers and computing. The Awards Committee should coordinate the society's participation in and contribute directly to these relevant awards programs.

There are four primary IEEE awards for which the Awards Committee of the Computer Society should seek nominators and candidates:

- **Emanuel R. Piore Award**
- **Koji Kobayashi Award**
- **Richard W. Hamming Medal**
- **John Von Neumann Medal**

Criteria and procedures regarding these awards is summarized below and is set forth in the policies and procedures of the IEEE, and in IEEE awards publications.

8.1 Richard W. Hamming Medal

The IEEE Richard W. Hamming Medal was established by the Board of Directors in 1986 'for exceptional contributions to information sciences, systems and technology.' The award is named in honor of Dr. Richard W. Hamming, who has had a central role in the development of computer and computing science, and whose many significant contributions in the area of information science include his error-correcting codes. Recipient selection is administered by the IEEE Medals Council through the IEEE Awards Board. It may be presented to an individual or group, up to three in number. The award consists of a gold medal, bronze replica, certificate, and honorarium.

8.2 Koji Kobayashi Computers and Communications Award

The IEEE Koji Kobayashi Computers and Communications Award was established by the IEEE Board of Directors in 1986 for outstanding contributions to the integration of computers and communications. This award can be given to an individual, multiple recipients, or a team. The Award is named in honor of Dr. Koji Kobayashi, who has been a leading force in advancing the integrated use of computers and communications. Recipient selection is administered through the Technical Field Awards Council of the IEEE Awards Board. The award consists of a bronze medal, certificate and honorarium.

8.3 Emanuel R. Piore Award

The IEEE Emanuel R. Piore Award was established by the IEEE Board of Directors in 1976. It may be presented annually to an individual, or team of two individuals, for outstanding contributions in the field of information processing, in relation to computer science, deemed to have contributed significantly to the advancement of science and to the betterment of society. Recipient selection is administered by the Technical Field Awards Council of the IEEE Awards Board. The Award consists of a bronze medal, certificate, and honorarium.

8.4 John von Neumann Medal

The IEEE John von Neumann Medal was established by the Board of Directors in 1990 and may be presented annually for outstanding achievements in computer-related science and technology. The achievements may be theoretical, technological, or entrepreneurial, and need not have been made immediately prior to the date of the award. The medal is named in honor of the eminent mathematician, John von Neumann, whose work at the Institute for Advanced Study led to the building of the IAS binary stored-program computer in 1952. The IAS machine served as the model for IBM's first all electronic stored-program computer (the 701). Recipient selection is administered through the IEEE Medals Council of the IEEE Awards Board. It may be presented to an individual or group, up to two in number. The award consists of a gold medal, bronze replica, certificate and honorarium.

9. COMPUTER SOCIETY AWARDS HISTORY

The evolution of the society's awards program dates back at least to 1954 with the formation of an ad hoc Awards Committee, reported in the September, 1954 issue of the *IRE Transactions in Electronic Computers*. Full committee status was provided in 1955 with the revised PGEC bylaws, approved by the IRE Executive Committee, June 7, 1955, and published in the September, 1955 issue of the *Transactions*. The general mission described there remains in tact in our current bylaws.

Early activities concentrated on interactions with IRE award programs and Fellows activities, with the latter eventually becoming a separate committee. The main awards activity, and the program as we practice it today started with the initiation of the W. Wallace McDowell Award in the 1965-66 period under the chairmanship of Ralph Preiss and J.C. Logue. Subsequently, in 1973 Joe Logue initiated the Honor Roll Award. The Eckert-Mauchly award, administered jointly with ACM, was the first presented in 1979, culminating the efforts of Oscar Garcia, Jack Lipovski, and their colleagues.

A significant restructuring occurred in 1978 under the leadership of Rex Rice, including formalizing the Special Award and the Certificate of Appreciation, and defining Outstanding Paper Awards for both publications and conferences. This awards format provided a much needed and major awards expansion, particularly in the recognition of service, consistent with the rapid growth of the society. The Pioneer Award and the Richard E. Merwin Award were added in 1981, and the Technical Achievement Award received final approval in early 1982.

Building on this structure, foundation, and experience, the program was further refined in 1982, primarily by redefining the Special and Honor Roll awards into three awards, the Distinguished Service Award, the Outstanding Contribution Award, and the Meritorious Service Award. In addition, some past Certificate of Appreciation awards categories were changed to Meritorious Service Awards. Provisions were also made to allow the dedication of Technical Achievement awards to mature technical areas within the computer field.

In related awards programs, a number of IEEE awards are applicable to Computer Society members, most particularly the Piore Award which was initiated in 1977. The AFIPS Harry M. Goode Award was introduced in 1964. Upon the dissolution of AFIPS in 1990 the Computer Society agreed to assume responsibility for continuing the Goode Award.

In 1996 the Golden Core Award was introduced to commemorate the 50th Anniversary of the Computer Society. Five hundred Charter Members were designated that year.

In 1997 several new awards were introduced:

- Tsutomu Kanai Award
- Seymour Cray Award
- Continuing Service Award
- Distinguished Contributions to Public Service in a Pre-College Environment Award
- Conference Contribution Award

In 1998 new service award procedures were instituted and in 1999 the Harlan D. Mills Award was introduced.

In 2006, the society's 60th anniversary, the 60th Anniversary Award, a new technical award, was initiated. The 60th Anniversary Award was bestowed with a \$20,000 honorarium, which elevated it to the status of IEEE medals.

In 2009, the Ken Kennedy Award was introduced. The Kennedy Award is co-sponsored with ACM.

In 2011, the B. Ramakrishna Rau Award was launched.

Awards Committee chairs over the years are listed below. (The chairs served from the year indicated until the year of their successors appointment.)

1955	E. G. Andrews	1992	Ralph J. Preiss
1956	J. Presper Eckert, Jr.	1993	Ron Waxman
1958	R. O. Endres	1994	Guyllaine M. Pollock
1960	Arnold A. Cohen	1995	Guyllaine M. Pollock
1960	F. H. Heart	1996	Stephen S. Yau
1961	Walter L. Anderson	1997	Stephen S. Yau
1962	Ken W. Uncapher	1998	Ronald G. Hoelzeman
1964	J. L. Mitchell	1999	Ronald G. Hoelzeman
1965	Ralph J. Preiss	2000	Ming T. (Mike) Liu
1967	G. T. Jacobi	2001	Ming T. (Mike) Liu
1968	Walter L. Anderson	2002	Oscar N. Garcia
1970	D. R. Brown	2003	Oscar N. Garcia
1971	J. C. Logue	2004	Wolfgang K. Giloi
1974	M. Graham	2005	Ann Q. Gates
1976	Rex Rice	2006	Ann Q. Gates
1980	Merlin G. Smith	2007	Ann Q. Gates
1987	Ralph J. Preiss	2008	Gene F. Hoffnagle
1988	Ralph J. Preiss	2009	Thomas M. Conte
1989	Marshall Yovits	2010	Thomas M. Conte
1990	Joseph E. Urban	2011	Thomas M. Conte
1991	Ralph J. Preiss	2012	

List of Past Award Recipients

Awards recipients are listed on the Computer Society's website

<http://www.computer.org/portal/web/awards/home>

10. APPENDIX

10.1 Nomination Forms

Several nomination forms are currently in use, including one form for all of the service awards. There should be a separate nomination form for each named award which lists the timetable and deadline. The Awards Committee continuously reviews current forms and creates new forms when needed. Standardization should be kept in mind throughout the process. The following forms can be found on-line at the Computer Society's website: <http://computer.org/awards>:

➤ **Service Awards – Certificates**

- a) **Certificate of Appreciation**
- b) **Continuous Service**
- c) **Distinguished Service**
- d) **Meritorious Service**
- e) **Outstanding Contribution**

- **Taylor L. Booth Education Award**
- **Computer Entrepreneur Award**
- **Computer Pioneer Award**
- **Computer Science & Engineering Undergraduate Teaching Award**
- **Seymour Cray Computer Engineering Award**
- **Distinguished Contributions to Public Service in a Pre-College Environment**
- **Eckert-Mauchly Award**
- **Sidney Fernbach Award**
- **Harry Goode Memorial Award**
- **Harry Hayman Award for Distinguished Staff Achievement**
- **Tsutomu Kanai Award**
- **Hans Karlsson Award**
- **Ken Kennedy Award**
- **W. Wallace McDowell Award**
- **Richard E. Merwin Award for Distinguished Service**
- **Harlan D. Mills Award**
- **Technical Achievement Award**
- **B. Ramakrishna Rau Award**

10.2 Sample Award Notification Letter

Dr. Joe Smith
1234 State Street
Eau Claire, WI 54550

Dear Dr. Smith:

On the recommendation of the IEEE Computer Society's Awards Committee and the approval of the society's Board of Governors, I am delighted to inform you of your selection as the 2011 W. Wallace McDowell Award recipient

"For your impact on the high performance microprocessor industry via a combination of important contributions to both engineering and education"

The McDowell Award is given to individuals for outstanding recent theoretical, design, educational, practical, or other similar innovative contribution that falls within the scope of IEEE Computer Society interest. The award may be given for a single contribution of great merit or a series of lesser contributions that have had or are expected to have an important influence on the computer field.

The award consists of certificate and a \$2,000 honorarium. Further information about the award, including a list of past recipients, may be found at: <http://www.computer.org/portal/web/awards/wallace>.

We plan to present the award at an awards dinner held on Wednesday, 25 May 2011 in Albuquerque, New Mexico. We invite you to make a brief acceptance speech at the event. If necessary, the Society can provide funds to cover travel costs for you to attend the ceremony. Please communicate your availability to (*Awards Administrator*) in the Computer Society Headquarters Office (202/371-0101, or awards@computer.org).if you are able to attend the awards ceremony.

On behalf of the IEEE Computer Society, I extend our sincere appreciation for your contributions to the profession.

Sincerely,

(Current society president)

Enclosure *(sample brochure)*

cc: *(Awards Chair)*
(Subcommittee Chair)
(Nominator)
(Executive Director)

IEEE Computer Society Call for Award Nominations

Help Recognize Computing's Most Prestigious

Computer Society awards recognize outstanding achievements and highlight significant contributors in the teaching and R&D computing communities. All members of the profession are invited to nominate individuals who they consider most eligible to receive international recognition of an appropriate society award.

For more information visit www.computer.org/awards

Seymour Cray Computer Engineering Award

Crystal Memento/\$10,000

Innovative contributions to high performance computing system.

(* 1 July)

Technical Achievement Award

Certificate/\$2,000

Contributions to computer science or computer technology.

(* 15 October)

Eckert-Mauchly Award

Certificate/\$5,000

(Joint award by CS/ACM)

Contributions to computer architecture.

(*30 March)

Ken Kennedy Award

Certificate/\$5,000

(Joint award by CS/ACM)

High impact contributions to programmability and productivity in computing.

(* 1 July)

Hans Karlsson Award

Plaque/\$2,000

Team leadership and achievement through collaboration in computing standards.

(*15 October)

Computer Entrepreneur Award

Sterling Silver Goblet

Vision and leadership resulting in the growth of some segment of the computer industry.

(* 15 October)

Distinguished Contributions to Public Service in a Pre-College Environment - Plaque

Awarded for furthering IEEE/CS professional and technical goals in a pre-college environment.

(*15 October)

Richard E. Merwin Distinguished Service Award

Bronze Medal/\$5,000

Outstanding volunteer service to the profession at large, including service to the IEEE Computer Society.

(*15 October)

Sidney Fernbach Memorial Award

Certificate/\$2,000

Development and applications of high performance computers.

(*1 July)

**Deadline for award nomination*

Tsutomo Kanai Award

Crystal Memento/\$10,000

Contributions to state-of-the-art distributed computing systems and applications.

(*15 October)

W. Wallace McDowell Award

Certificate/\$2,000

Recent theoretical, design, educational, practical, or other tangible innovative contributions.

(* 15 October)

Taylor L. Booth Award

Bronze Medal/\$5,000

Contributions to computer science and engineering education.

(*15 October)

Computer Pioneer Award

Gold Medal

Pioneering concepts and development of the computer field.

(* 15 October)

Computer Science & Engineering Undergraduate Teaching Award

Plaque/\$2,000

Recognize outstanding contributions to undergraduate education.

(*15 October)

Harry H. Goode Memorial Award

Bronze Medal/\$2,000

Information sciences, including seminal ideas, algorithms, computing directions, and concepts.

(*15 October)

Harlan D. Mills Award

Plaque/\$3,000

Contributions to the practice of software engineering through the application of sound theory.

(*15 October)

IEEE CS/Software Engineering Institute

Watts S. Humphrey Software Process Achievement Award

(Joint award by CS/SEI) **Plaque/\$1,500**

Software professionals or teams responsible for an improvement to their organization's ability to create and evolve software-dependent systems.

(* 15 October)

B. Ramakrishna Rau Award

Certificate/\$2,000

Contributions in the field of computer microarchitecture and compiler code generation

(*1 July)

CALL FOR NOMINATIONS