

Specifications for a SIAM Fellows Program
January 11, 2008
SIAM Fellows

SIAM designates as Fellows of the Society certain members who have made outstanding contributions to fields served by SIAM.

Goals of the SIAM Fellows Program

- To honor SIAM members who are recognized by their peers as distinguished for their contributions to the discipline.
- To help make outstanding SIAM members more competitive for awards and honors when they are being compared with colleagues from other disciplines.
- To support the advancement of SIAM members to leadership positions in their own institutions and in the broader society.

The designation of a SIAM member as a SIAM Fellow is an honorific title, and all Fellows will be listed on the SIAM website. There are no special duties or privileges that are conferred with Fellowship. Fellows are elected for life and Fellowship can only be revoked in extraordinary cases by a majority vote of the SIAM Council and Board of Trustees.

Eligibility Criteria

Any current regular member of SIAM who has been a regular member of SIAM for at least five years (not necessarily consecutive) is eligible to be nominated to be a SIAM Fellow. For these purposes, a regular member is defined as a non-student, dues-paying member.

A nominee is expected to have been a member of the profession for at least fifteen years. In most cases, this will be interpreted to mean fifteen years from PhD.

Members of the SIAM Major Awards Committee may not be nominated to be SIAM Fellows while in office. SIAM Presidents will automatically become Fellows upon election, if they are not Fellows already.

Nomination Procedures

The nomination of an individual to be a SIAM Fellow can be made by any three regular members of SIAM except members of the Fellows Selection Committee (defined below).

The procedures for nominating SIAM Fellows may be found on the SIAM website. A nomination shall consist of:

- A one-page letter of nomination from the three nominators.
- A curriculum vitae of at most four pages. It is suggested that the vita include selected publications and patents.
- Up to three letters of recommendation. It is suggested that at least one letter be from a current Fellow.
- A citation of at most 50 words proposed for use if the nominee is selected to be a Fellow.

The Fellows Selection Committee will work to the best of its ability to elect the most deserving nominees. In making these decisions, the Committee will rely on the information in the nomination package and on the detailed insight about a nominee's professional accomplishments that is provided by the letters of recommendation. It is important that the nomination package describes the nominee's most significant contributions and their impact.

Nominations will be solicited annually and must be received by the SIAM office by the first Monday in November. New Fellows will be announced in SIAM News and will be recognized at the SIAM Annual Meeting.

No SIAM member can nominate more than two individuals in a given year.

Nominations shall be submitted electronically.

Any nomination that satisfies all requirements will remain active for three consecutive years.

Fellows Committees

The SIAM Fellows Program will be implemented by two committees, the SIAM Major Awards Committee and the Fellows Selection Committee.

With regard to Fellows, the Major Awards Committee will have three duties:

- To appoint the members of the Fellows Selection Committee.
- To set the target number of Fellows to be selected in the current year in view of the guidelines below.
- To address any difficulties that may arise in the implementation of the Fellows Program.

Fellows Selection Committee

The Fellows Selection Committee is charged to evaluate nominees and to select the SIAM Fellows. The Fellows Selection Committee may not select more than the target number of Fellows, but may choose to select fewer Fellows if the nomination pool so warrants. The documentation submitted with a nomination is the basis for a selection decision.

The Fellows Selection Committee will consist of twelve members serving staggered two-year terms. Only SIAM Fellows who are also regular SIAM members and who have not served on the Fellows Selection Committee in the preceding five years are eligible for appointment to the Committee. Each year, six new Committee members will be appointed by the Major Awards Committee from among those eligible, and the SIAM President will designate one of the continuing committee members as chair.

The Major Awards Committee, when appointing the Fellows Selection Committee, and the Fellows Selection Committee, when evaluating nominees, will give careful attention to the non-academic membership of SIAM.

Fellows Selection Procedures

The Fellows Program will develop in three stages: the start-up, the transitional, and the steady state.

Program Start-up Period

In order to speed the development of the SIAM Fellows Program and to insure sufficient fellows for the Fellows Selection Committee, Fellowship will be conferred on a number of SIAM members upon program inception. The initial Fellows will be selected from among those SIAM members whose previous levels of recognition place them clearly among the members intended to be recognized by the program.

The list of Fellows so appointed will be published by SIAM at the inception of the program. Any SIAM member who believes that, based on the start-up procedures, there is an omission from this list should so inform SIAM within three months of publication of the list. The Major Awards Committee will investigate all such cases and provide a decision as to whether to confer Fellowship under the start-up procedures. The decision of the Major Awards Committee is final. However, a negative decision will in no way impact a possible future nomination for Fellowship.

The start-up procedures are described in the Appendix.

Program Transitional Period

The program transitional period will run from the end of the first year of the Fellows Program until the end of the tenth year. At the end of the first year, the target number of new Fellows to be appointed will be 0.45% of the number of regular SIAM members. At the end of the second year, the target number of new Fellows to be appointed will be 0.435%. The target number will continue to decrease by 0.015% per year throughout the transitional period, until reaching 0.315% at the end of the tenth year of the program.

Program Steady State

Each year, after the transitional period, the target number of new Fellows to be selected that year will be set by the Major Awards Committee at an anticipated level of 0.30% of the number of regular SIAM members.

Revisions to Fellows Program

Changes to the SIAM Fellows Program must be approved by the SIAM Council and Board of Trustees.

Appendix: Procedures for Fellow Selection on Start-up

The procedures described below, which are known to be ad hoc, will only be used during the start-up period and are not intended to influence Fellow selection criteria after start-up.

At start-up Fellowship will be conferred on SIAM members who have been regular SIAM members for at least five years, who have been members of the profession for at least fifteen years, and who belong to at least one of the following categories.

1. National members of academies associated to countries whose regular SIAM members constitute at least 1% of all regular SIAM members:
 - Australian Academy of Science,
 - Academia Brasileira de Ciências,
 - Argentinian Academia Nacional de Ciencias,
 - Berlin-Brandenburgische Akademie der Wissenschaften,
 - French Academie des Sciences,
 - Italian Accademia dei Lincei,
 - Japan Academy,
 - Koninklijke Nederlandse Akademie van Wetenschappen,
 - Royal Society of Canada,
 - Royal Society of London,
 - Spanish Real Academia de Ciencias, or
 - United States National Academies of Sciences or Engineering.
2. Recipients of one of the following SIAM prizes: Block Lecture, Cole Lectureship, Dahlquist Prize, Kleinman Prize, Kovalevsky Lecture, Polya Prize, Reid Prize, von Karman Prize, von Neumann Lecture, Distinguished Service to the Profession, Birkhoff Prize, Wiener Prize, Lagrange Prize for Continuous Optimization, SIAM/ACM Prize in Computational Science and Engineering, Dantzig Prize, or Henrici Prize.
3. Recipients of one of the following ICIAM Prizes: Pioneer Prize, Collatz Prize, Lagrange Prize, Maxwell Prize, or Su Buchin Prize.
4. Present and past fellows of the following corporate and laboratory fellows programs at 2007 SIAM institutional member organizations (programs whose selection procedures are well-correlated with the goals of the SIAM Fellows Program):
 - AT&T Laboratories (AT&T Fellows);
 - Bell Alcatel-Lucent Laboratories (Fellows);
 - Boeing (Senior Technical Fellows);
 - General Motors (Technical Fellows);
 - Hewlett-Packard (HP Senior Fellows);
 - IBM (IBM Fellows);
 - Lockheed Martin (Lockheed Martin Fellows);
 - Argonne National Laboratory (Distinguished Fellows),
 - Oak Ridge National Laboratory (Corporate or Senior Research Fellows),
 - Los Alamos National Laboratories (Laboratory Fellows).
5. Editors-in-Chief of SIAM Journals since 1998.
6. Former and current presidents of SIAM.