BYLAWS OF THE SOCIETY

With proposed amendments shown by insertions (underlined) and deletions (struck out)

BYLAW I. Activities of the Society. Activities appropriate to the fulfillment of the object of the Society include: the election to membership and associate membership in the Society of students, faculty members, investigators in research institutions and others who meet the requirements for membership set forth in Article II, Section 3 A and B of the Constitution; the maintenance of companionship among the membership in various fields of science through association with chapters; the holding of meetings for the discussion of scientific subjects; the publication of *American Scientist* and other publications devoted to the dissemination of scientific information, especially the results of research in progress; and the encouragement of scientific research through other means such as Grants-in-Aid of Research to individual investigators, the presentation of awards for excellence in research and the maintenance of the lectureship programs.

BYLAW II. Membership in the Society

Section 1. Membership of Chapters. A. Chapters. The membership of a chapter, subject to the requirements of Article IV, Section 1 of the Constitution, shall consist of the active Members and the active Associate Members who present satisfactory credentials showing election to membership in the Society, who request affiliation with the chapter and who are accepted by the chapter. They shall be recorded as such in the Headquarters of the Society.

B. Membership-at-Large. The membership-at-large, subject to the requirements of Article IV, Section 1 of the Constitution, shall consist of the active Members and the active Associate Members who are not affiliated with any chapter. They shall be recorded as such in the Headquarters of the Society.

Section 2. Criteria for Membership. A. General Requirements. In the expanding field of science, enumeration of those disciplines appropriate to membership in the Society is not possible as the sole...
basis for defining the criteria for membership. For this reason, nomination of an individual engaged in scientific research may be made provided that the nominee is, by the quantitative emphasis of the work combined with its synthesis and qualitative stature, deemed eligible for nomination.

40 B. **Noteworthy Achievement.** Noteworthy achievement in research specified for election or promotion to full membership, Article II, Section 3 A of the Constitution, must be evidenced by publications, patents, written reports or a thesis or dissertation, which must be available to the Committee on Admissions if requested. If the work is "classified," it shall be assessed for the Committee on Admissions by a "cleared" Member. Membership in the Society is neither linked to the possession of any degree nor contingent upon belonging to some other organization.

49 C. **Research Aptitude.** Research aptitude specified for election to associate membership, Article II, Section 3 B of the Constitution, must be evidenced by independent investigation ordinarily resulting in a written report, which must be available to the Committee on Admissions if requested. If the work is "classified," it shall be assessed for the Committee on Admissions by a "cleared" Member. Associate membership is offered to encourage young investigators with promise to continue careers in research. In making the nomination for such membership, both the nominator and the seconder attest to the nominee's potential for future promotion to Member.

60 Section 3. **Nomination Procedures.** A. **Responsibility.** The responsibility for nomination of an individual for membership in the Society, and thus upholding the high ideals of the Society, rests upon the Members of the Society. Only those individuals whose research achievements deserve special recognition should be nominated as Members, and only those individuals whose potential for future success in research, and thus eventual attainment of full membership, should be nominated for Associate Members. Membership in Sigma Xi, The Scientific Research Society is an honor and requires discriminating judgment on the part of the membership and of the Committee on Admissions.

71 B. **To a Chapter.** Each nomination for election as a Member or an Associate Member to a chapter shall: (i) be made in writing, (ii) present full evidence of the eligibility of the nominee, and (iii) be signed by at least two active Members of the chapter as nominator.
75 and seconder. Such written nomination shall be sent to the secretary
76 of the chapter who shall, in turn, deliver it to the Committee on
77 Admissions of the chapter for its consideration.

78 C. To the Membership-at-Large. Each nomination for election as
79 a Member or an Associate Member to the membership-at-large shall:
80 (i) be made in writing, (ii) present full evidence of the eligibility of
81 the nominee, and (iii) be signed by at least two active Members of
82 the Society as nominator and seconder. Nominations for Associate
83 Members shall be signed by Members of the nominee's current
84 institution, or shall explain how the nominator/seconder have
85 personal knowledge of the nominee's research activities and
86 contributions. All nominations to the membership-at-large shall be
87 sent for consideration to the committee designated by the Board of
88 Directors as its Committee on Admissions.

89 Section 4. Committee on Admissions. A. Selection. (i) Of a
90 chapter. Each chapter shall have a Committee on Admissions
91 composed of Members of the chapter and selected in a manner
92 prescribed in the bylaws of the chapter.

93 (ii) Of the Board of Directors. The Board of Directors shall
94 designate an appropriate committee to serve as a Committee on
95 Admissions.

96 B. Duties and Responsibilities. (i) Consideration of Nominees.
97 Each Committee on Admissions shall carefully consider and vote on
98 all nominations that have been duly received, and shall recommend
99 to the chapter for election/promotion those candidates for full
100 membership or associate membership who have been approved by
101 the Committee.

102 (ii) Review of the Roster. The Committee on Admissions of a
103 chapter shall periodically review the roster of Associate Members
104 with the view of possible promotion to full membership. Also, an
105 Associate Member may submit to the secretary of the chapter which
106 elected them, or to the secretary of the chapter with which the
107 Associate Member is currently affiliated, evidence of eligibility for
108 promotion to full membership.

110 Responsibility for the election of an individual to membership in the
111 Society as a Member or Associate Member is vested in the full
112 membership of a chapter or in the committee so designated by the
Board. In the election of new members, the full membership shall be guided by the recommendations of the Committee on Admissions.

B. Procedures. (i) Of a Chapter. A chapter shall vote only on those nominees for membership who have been recommended by the Committee on Admissions. An affirmative vote of at least three-fourths of the Members present and voting at a meeting shall be necessary for election or promotion.

(ii) Of the Committee Designated by the Board. The committee designated by the Board shall elect or promote to membership in the Society those nominees of which the Committee approves.

(iii) Exception for Chapters. Without limiting its own power in paragraph B (i) above, a chapter may empower its Committee on Admissions to elect/promote to membership or associate membership in the Society provided that in each such election/promotion a unanimous vote of the Committee shall be required.

Section 6. Initiation of New Members. A. Procedures. (i) Member-elect present. Each Member-elect and each Associate Member-elect in a chapter shall, except as provided for in (ii) below, be initiated at such time after the election as the bylaws of the chapter prescribe and in accordance with the form prescribed in B, below, before being admitted to membership in the Society. At the conclusion of the initiation ceremony, the new members shall be presented to the chapter.

(ii) Member-elect or Associate Member-elect Absent and Member-elect or Associate Member-elect by the Committee Designated by the Board. Any Members-elect or Associate Members-elect who are unable to attend a regular initiation ceremony are required to state to either the president of the electing chapter or to the Chair of the committee designated by the Board, that they (a) have read the culture, mission and vision statements of the Society and (b) assent in writing to the Pledge, whereupon they shall be admitted to membership in the Society.

(iii) Honorary Members. Honorary Members shall be initiated into the Society by the President, or by a person designated by the President, at a suitable ceremony.
B. **Pledge of the Society.** Members-elect and Associate Members-elect shall be informed of the aims and objectives of the Society, and shall be required to assent, either orally or in writing to the president of the electing chapter or the president’s deputy, or in writing to the Chair of the committee designated by the Board, to the following Pledge: "Do you hereby pledge yourself, in accordance with the purposes and objectives of Sigma Xi, The Scientific Research Society, to encourage original investigations in science, to foster companionship and cooperation among scientists, to maintain honor, integrity and honesty in all scientific activities, and to assume the other continuing responsibilities of membership?" Members-elect and Associate Members-elect who attend a regular initiation are expected to have read the culture, mission and vision statements of the Society, whereupon they are admitted to membership in the Society.

C. **Certificate of Membership.** (i) **Members and Associate Members.** Upon admission to membership, each new Member or Associate Member shall receive a certificate of membership which shall be in a form approved by the Assembly of Delegates, bear the Seal of the Society, and be signed by the President of the Society, the Executive Director, and the president and secretary of the electing chapter or the Chair of the committee designated by the Board. Each new Member or Associate Member shall also receive the official emblem, or the authorization to secure such emblem.

(ii) **Honorary Members.** Honorary Members shall receive a suitable certificate of membership approved by the Board of Directors, bearing the Seal of the Society, and signed by the President and the Executive Director.

Section 7. **Changes in Membership Status.** A. **Active to Inactive** Active members who fail to comply with the provisions of Article IV, Section 1 of the Constitution shall be transferred to inactive membership, and shall be recorded as such in the Headquarters of the Society.

B. **Inactive to Active.** An inactive member may, at any time and at the member’s discretion, be returned to active membership by complying with the provisions of Article IV, Section 1 of the Constitution, and by indicating to the Headquarters of the Society the chapter, or the membership-at-large, with which the member wishes to be affiliated. Such change shall be recorded appropriately in the Headquarters of the Society.
C. Life Membership. Procedures for attainment of Life Membership shall be established, from time to time, by the Board of Directors and ratified by the Assembly of Delegates. Upon attainment of Life Membership, the member is relieved thereafter from complying with the provisions of Article IV, Section 1 of the Constitution.

D. Emeritus Status. Any active Member or Associate Member who has paid annual dues for the immediately preceding 10 years and who has reached the age of 65, or who, at any age, has paid annual dues for the immediately preceding 30 years, may upon retirement request emeritus status. This status permits continued active association with the Society as provided for in Bylaw IV, Section 1 A (iii).

BYLAW III. Organization of the Society

Section 1. Chapters. A. Chapters. (i) Location and Requirements for a Chapter. A chapter may be established by action of the Board of Directors, advised by a committee designated by the Board, at any location where scientific research is cultivated and promoted. Of considerable importance are evidences of official commitments to the development and support of research by the institution in the immediate and long-range future.

Ordinarily locations approved for chapter status will be single educational, governmental, or industrial institutions whose permanency is reasonably assured. In some instances chapters may be approved at locations whose research strength and potential is dependent upon the combined research organizations of two or more institutions so situated physically that they can participate together as companions in zealous research.

Before any petitioning group can be recommended for chapter status, a committee designated by the Board shall ascertain by inquiry, study, and visits, where appropriate, if the conditions at the institution(s) involved are conducive to further scientific research.

(ii) The Petition. A petition for the granting of a charter for the establishment of a chapter shall be communicated to the Executive Director, who, in turn, shall refer it to the committee designated by the Board to determine the suitability of the petition. At least 18 active members, of whom at least 9 must be full active Members,
must agree in the petition to become members of the chapter. If the committee, by at least a three-fourths majority vote, recommends approval of the Board of Directors, and it, in turn, approves by a like vote, the Executive Director shall initiate the process of installation of a new chapter.

(iii) **Chapter Charter.** Each charter for the establishment of a new chapter shall be signed by the President and the Executive Director, and shall be presented by the installing officer to the petitioning group at a special installation ceremony arranged by the petitioning group in consultation with the Executive Director. The form of the charter is set forth in Bylaw III, Section 1 D (i) and (ii), below.

(iv) **Affiliation with a Chapter.** A Member or Associate Member, upon presenting satisfactory credentials showing election to membership in the Society, and complying with the provisions of Article IV, Section 1 of the Constitution, is entitled to appropriate membership in any chapter depending upon such relationship to the institution(s) hosting the chapter as said institution(s) may require.

(v) **Revocation of a Chapter Charter.** Any chapter not in good standing (Bylaw III, 1C) will be placed on probation for a one year period by the committee designated by the Board to oversee chapter activities. If after one year on probation, a chapter has not returned to good standing, the committee may initiate the necessary action for revocation of the chapter's charter as indicated below. The charter of a chapter may be revoked by the Board of Directors, by a three-fourths majority vote of those present at a meeting of the Board, provided the Board action was taken in response to a three-fourths majority vote of the members of the committee present at a meeting following a thorough investigation of the chapter concerned and the taking of all possible remedial steps to preclude the necessity for such action by the committee.

B. **Good Standing of Chapters.** To remain in good standing, a chapter should (a) elect and initiate, via any mechanism open to the chapter, new Members and/or Associate Members on at least one occasion in two consecutive years, or, for chapters at non-academic institutions, provide a record satisfactory to the appropriate committee designated by the Board of either contributions to and involvement in improvement of mathematics and science education or the promotion of science or engineering to young people, (b) file with the Executive Director an annual report on or about 1 July of each year, providing evidence that the chapter is contributing to the
encouragement of scientific research, pure or applied, and is serving
the other objectives of the Society, (c) be represented at the
Assembly of Delegates at least once every three years, and (d)
provide timely annual notification to the Executive Director of the
officers of the chapter.

C. (reserved)

D. The Charter. The charter issued to a chapter shall contain two
paragraphs, to wit:

(i) First Paragraph. The first paragraph of the charter of a chapter
shall be in the following form:

"Be it hereby known that a charter for the establishment of a chapter
of Sigma Xi, The Scientific Research Society at ..........to be known as
the ........ Chapter, is hereby granted to the following persons as
Charter Members and Charter Associate Members, conveying to
them and to their duly elected successors all the privileges and
responsibilities conferred by the Constitution of the Society; (list of
names)"

(ii) Second Paragraph. The second paragraph of the charter of a
chapter shall be in the following form:

"In witness whereof, the signatures of the President and the
Executive Director, together with the Seal of the Society, are
hereunto affixed on the ..........day of ..........in the year......."

E. Geographic Regions. Chapters located in North America are
assigned to the geographic region in which they are located.
Chapters located outside North America shall be assigned to a
geographic region by the Board of Directors after consultation with
the chapter. A chapter having special ties to a chapter in another
region may ask to be reassigned, and the Board of Directors shall act
on such requests. Once each decade the Board of Directors shall
evaluate the distribution of members and chapters within the
geographic regions and make appropriate changes to geographic
boundaries.

F. Constituency Groups. Chapters located in the United States and
its territories are assigned by the Board of Directors to one of four
constituency groups of chapters from similar institutions. Chapters
located outside of the United States and its territories are assigned to
the Canadian/International constituency group. A chapter may ask to be reassigned to a different constituency group, and the Board of Directors shall act on such requests.

Section 2. The Assembly of Delegates. A. Duties of the Assembly. The Assembly of Delegates shall meet annually in General Session at which time the delegates shall consider and act upon business of the Society, and elect such officers as may be required.

B. Caucuses. In addition to the General Sessions of the Assembly of Delegates attended by all delegates, the Annual Meeting shall provide time for caucuses of each geographic region and constituency group at which time the delegates may meet and conduct such discussions and business, including the election of a Director, a member of the Committee on Nominations, and members of the region or group nominating committees, as may be required. The appropriate Director shall preside over each caucus. Directors prepare agendas of matters to be discussed, which shall include matters of interest to science and to the Society as a whole, as well as matters specific to the interest of the geographic region or constituency group. The Director may act as spokesperson for the geographic region or constituency group at General Sessions of the Assembly of Delegates.

C. (reserved)

D. (reserved)

E. (reserved)

F. Agenda of the General Session of the Assembly of Delegates. (i) Order of Business. The Preliminary Agenda of the General Session of an Assembly of Delegates shall set forth the order of business proposed by the President. The Preliminary Agenda may be amended at the opening of the First Session of said Assembly, and shall be adopted by a majority vote of the Assembly of Delegates.

(ii) Change in the Order of Business. The regular order of business, having been adopted, may be suspended or modified by a three-fourths majority vote of the Assembly of Delegates.

(iii) Rules of Order. Meetings of the Assembly of Delegates shall be conducted in accordance with the current edition of Robert's
Rules of Order Newly Revised, except when in conflict with the Constitution or Bylaws, in which case the Constitution or Bylaws shall prevail. The President shall serve as the presiding officer of the Assembly, and the Executive Director as its secretary. The presiding officer may limit debate for the purpose of maintaining the time schedule of the Assembly.

(iv) Limitations on Resolutions. (a) No resolution, except those reported by official committees or those hereinafter defined, will be in order for consideration by an Assembly of Delegates unless having been presented first to the Committee on Resolutions. All proposed resolutions of a substantive nature, including motions, to be eligible for passage at an Assembly of Delegates, must have been submitted 150 days prior to the convening of that Assembly of Delegates and circulated to the active membership and the chapters 60 days in advance of the meeting. Publication in the official journal or on the Society website shall constitute circulation to active membership and chapters. The Executive Director shall inform the chapters of the final date for submission of proposed resolutions, and invite the chapters to make their submissions through the Executive Director. (b) Motions and resolutions of a substantive nature offered by the Board of Directors, or motions and resolutions merely expressing the sense of the Assembly, such as commemorative resolutions, are exempt from this provision. (c) Proposals concerning resolutions of a substantive nature may be considered by the Assembly of Delegates for inclusion on the agenda of the next Assembly of Delegates, and a majority vote of the current Assembly of Delegates on such a proposal shall require that it be placed on the agenda of the next Assembly.

(v) The Committee on Resolutions. The President shall appoint a Committee on Resolutions to consist of three members at least 150 days prior to the convening of an Assembly of Delegates.

Section 3. Officers of the Society. A. (reserved)

B. Election of Officers. (i) Nomination by the Committee on Nominations. The Committee on Nominations (See BYLAW III, Section 6. C.) shall present to the chapters through the Executive Director, at least 60 days prior to the convening of the Assembly of Delegates annual election, a report which shall provide: (a) at least two nominees for President-elect; (b) at least
two nominees for Treasurer, when required; together with (c) the normal biographical information such as would be available in standard publications and, in addition, data on past service to the Society and evidence of having undertaken responsible leadership activities in scientific research together with the assurance that the nominee will serve if elected. To assist the Committee in its selection of nominees for Treasurer, the President, in consultation with the President-elect and the Chair of the Committee, shall appoint a search committee of not less than three and not more than five persons, none of whom may be members of the Committee on Nominations. The search committee shall be appointed not less than three months before the Committee on Nominations meets to determine its nominees for Treasurer.

(ii) Additional Nominations. Additional nominations for President-elect and for Treasurer may be made provided each nominee is supported by at least three chapters and further provided that the chapters have been furnished by the proposers through the Executive Director at least 21 days prior to the convening of the annual election (See BYLAW VII) Assembly of Delegates with the name of the nominee and the additional information required in (i) above.

C. (reserved)

D. Vacancies. (i) In One Office. In the case of a vacancy in the office of President, the President-elect shall assume the office and the duties of the President that is they succeeded and also serve the full presidential term of one year for which they were elected. In the case of a vacancy in the office of President-elect, the most recently retired president shall assume the duties, but not the office, until the next Assembly of Delegates next annual election (See BYLAW VII), at which time both a President and a President-elect shall be elected. The newly elected President shall, in the interim between election by the Assembly of Delegates and the beginning of the elected term, serve as the President-elect. In the case of a vacancy in the office of Immediate Past President, the most recently retired President available shall assume the duties, but not the office, for the remainder of the term. In the case of a vacancy in the office of Treasurer, the President shall appoint a Treasurer to serve until the next Assembly of Delegates next annual election, at which time a successor shall be elected for the unexpired balance of the term of
office.

(ii) **President and President-elect. Both Vacant.** If the offices of both President and President-elect are simultaneously vacant, the Immediate Past President, or the Executive Director or Treasurer, shall convene the Board of Directors, which shall have the authority to fill the office of President and to appoint an individual to assume the duties, but not the office, of President-elect until the next Assembly of Delegates annual election (See BYLAW VII), at which time both a President and a President-elect shall be elected. Those individuals elected shall immediately assume office completing the unexpired terms of their predecessors prior to serving the terms for which they were elected.

Section 4. **Board of Directors. A. Membership.** The Board of Directors shall consist of the President, the President-elect, the Immediate Past President, the Treasurer, the Executive Director (without vote), a Director elected for each geographic region by the chapters in the region, a Director elected for each constituency group by the chapters in the group, and a Director elected by the membership-at-large. No Director may occupy more than one seat on the Board of Directors.

B. **Election of Directors for Geographic Regions. (i)**

Nomination and Voting. At the Annual Meeting one year prior to electing a Director for a particular region, the caucus of that geographic region shall elect by ballot a Nominating Committee for the region following procedures established by the region and approved by the Board of Directors. The Director for the geographic region shall be an ex officio member of the Nominating Committee for the region. In those years in which a Director is required to be elected, the Nominating Committee shall report to the active membership and the chapters of its region, through the Executive Director, at least 60 days prior to the convening of the annual election, a slate of at least three nominees residing in the region for each position up for election, together with the normal biographical data, information on the nominee's past service to the Society and leadership in scientific research, and the assurance that the nominee will serve if elected. In those years in which a member of the Committee on Nominations is to be elected, a procedure such as that described for the nomination and election of a Director of a geographic region...
shall be followed shall comprise election of Committee on Nominations members by majority vote of the delegates at the caucus. Voting in the caucus for Director shall be conducted as part of the next annual election (See BYLAW VII) wherein active members affiliated with chapters located in a region and members-at-large having addresses of record in the region may vote on the director for that region shall be by ballot, and each chapter represented by a delegate at the caucus shall have one vote. The nominee receiving the largest number of votes shall be declared elected as Director, providing that the nominee receives no less than 1/3 of the votes cast. except that if two, or more, nominees are tied for the largest number of votes, they shall enter a run-off election. Upon election of the Director, the candidate receiving the second highest number of votes shall be the Associate Director. A Director shall be limited to two full successive terms of office, but may be nominated again for a term commencing at least three years after termination of the previous term. At any Annual Meeting, the caucus for a geographic region may elect an Associate Director for a term of three years, following the procedure for the nomination and election of a Director. The Associate Director shall assist the Director for the region and, at the request of the Director, may attend and vote at a meeting of the Board of Directors in place of the Director.

(ii) Vacancies. In the event of a vacancy in the office of Director, that vacancy shall be filled by the Associate Director. If there is no Associate Director, that vacancy shall be filled by appointment by the President, with the advice and consent of the President-elect, said appointee to serve until the next Annual Meeting at which time a special annual election at which time shall be held by the affected geographic region to fill the unexpired term shall be filled, following the regular procedures. If a Director ceases to reside in the region, the Director may, with the concurrence of the chapters in the region, continue to serve as a Director until the expiration of the Director’s term. It shall be the duty of Director having changed residence to notify the Executive Director who shall either obtain the assent of the chapters in the geographic region within 30 days or declare the directorship vacant in which case the foregoing procedure shall be followed.

(iii) Notification. The names of the nominees for the newly elected Director (if any), the newly elected member of the Committee on Nominations (if
any), and of the members of the Geographic Region Nominating Committee shall be reported to the Executive Director by the presiding officer of each caucus.

(iv) **Duties.** The Director for a geographic region, in addition to the duties stated in the Constitution and in other sections of the Bylaws, shall work with, give advice to, and contribute to the health of chapters within the region.

C. **Election of Directors for Constituency Groups.** (i) **Nomination and Voting.** At the Annual Meeting one year prior to the annual election electing a Director for a particular group, the caucus of that constituency group shall elect by ballot a Nominating Committee for the group following procedures established by the group and approved by the Board of Directors. The Director for the constituency group shall be an *ex officio* member of the Nominating Committee for the group. In those years in which a Director is required to be elected, the Nominating Committee shall report to the active membership and the chapters of its group, through the Executive Director, at least 60 days prior to the convening of the caucus the next annual election, a slate of at least three nominees belonging to the group for each position up for election, together with the normal biographical data, information on the nominee’s past service to the Society and evidence of leadership in scientific research, and the assurance that the nominee will serve if elected. In those years in which a member of the Committee on Nominations is to be elected, election shall be by majority vote of the delegates at the caucus. a procedure such as that described for the nomination and election of a Director of a constituency group shall be followed. Voting in the caucus for Director shall be by ballot, and each chapter represented by a delegate at the caucus shall have one vote. **Voting for Director shall be conducted as part of the next annual election (See BYLAW VII) wherein active members affiliated with chapters located in the constituency group may vote on the director for that constituency group.** The nominee receiving the largest number of votes shall be elected, providing that the nominee receives no less than 1/3 of the votes cast. In the event that no candidate receives at least 1/3 of the votes cast, a runoff election shall be conducted as provided in BYLAW VII. shall be declared elected, except that if...
two, or more, nominees are tied for the largest number of votes, they shall enter a run-off election. Upon election of the Director, the candidate receiving the second highest number of votes shall be the Associate Director. A Director shall be limited to two full successive terms of office, but may be nominated again for a term commencing at least three years after termination of the previous term. At any Annual Meeting, the caucus for a constituency group may elect an Associate Director for a term of three years, following the procedure for the nomination and election of a Director. The Associate Director shall assist the Director for the group and, at the request of the Director, may attend and vote at a meeting of the Board of Directors in place of the Director.

(ii) **Vacancies.** In the event of a vacancy in the office of Director, that vacancy shall be filled by the Associate Director. If there is no Associate Director, that vacancy shall be filled by appointment by the President, with the advice and consent of the President-elect, said appointee to serve until the next Annual Meeting at which special election shall be held by the affected constituency group to fill the unexpired term, following the regular procedures.

(iii) **Notification.** The names of the nominees for the newly elected Director (if any), the newly elected member of the Committee on Nominations (if any), and of the members of the Constituency Group Nominating Committee shall be reported to the Executive Director by the presiding officer of each caucus.

(iv) **Duties.** The Director for a constituency group, in addition to the duties stated in the Constitution and in other sections of the Bylaws, shall work with, give advice to, and contribute to the health of chapters within the group.

D. **Election of the Director for the Membership-at-Large.** (i) **Nominations and Voting.** At least one year before the election of a Director by the membership-at-large, the membership-at-large shall elect a Nominating Committee consisting of 5 members-at-large. The Nominating Committee shall present to the membership-at-large through the Executive Director at least 60 days prior to the voting for a report which will provide at least three nominees from the membership-at-large together with the normal biographical information, data on the nominee's past service to the Society and evidence of leadership in scientific research, and assurance that the nominee will serve if elected. The Executive
Director shall advise the membership-at-large of the nominees for Director, and their biographical information, and provide the opportunity for each member-at-large to cast a ballot to elect the Director within a 60 day period. The nominee receiving the largest number of votes shall be declared elected. A Director providing that the nominee receives no less than 1/3 of the votes cast. In the event that no candidate receives at least 1/3 of the votes cast, a runoff election shall be conducted as provided in BYLAW VII. A Director shall be limited to two full successive terms of office but may be nominated again for a term commencing at least three years after termination of the Director’s previous term. The Board of Directors is empowered to detail further procedures for the election of the Nominating Committee and the Director.

(ii) **Vacancies.** In the event of a vacancy in the office of Director from the membership-at-large, that vacancy shall be filled by appointment by the President, with the advice and consent of the President-elect, to complete the unexpired term.

(iii) **Notification.** The name of the newly elected Director and the members of the Nominating Committee shall be reported to the membership-at-large by the Executive Director.

(iv) **Delegates.** The Director from the membership-at-large, and two members-at-large, appointed by the President on recommendation of the Director, shall be accredited as delegates from the membership-at-large at each Assembly of Delegates.

Section 5. **Quorum of the Board of Directors.** Eleven of the Directors (including designated Associate Directors) and Officers with vote, shall constitute a quorum of the Board of Directors.

(i) **Selection of Members.** The Board of Directors shall, at a meeting held prior to 1 July of each year, designate in even-numbered years a Director elected by a constituency group and in odd-numbered years a Director elected by a geographic region to serve on the Executive Committee for the ensuing two years. In selecting the Director to serve, consideration shall be given to the availability of the individual to serve for two years and to attend meetings.

(ii) **Selection of Alternates.** If, in connection with the call of a meeting of the Executive Committee, it shall be determined that an officer or designated member will be unable to attend the meeting, it
shall be the responsibility of that individual to select, from among
the other members of the Board of Directors, an alternate to serve in
the member's place.

B. Duties and Limitations. The Executive Committee of the
Board of Directors shall have the following specific duties, subject,
however, to the conditions, limitations and requirements set forth
below.

(i) Powers. The Executive Committee shall have the power to act
for the Board of Directors between meetings with respect to matters
not excluded in subsection (v) below: (a) when action is required
and the exigencies of the situation will not permit a delay until the
next meeting of the Board of Directors or until a mail ballot can be
taken; or (b) when the degree of confidentiality is so great as to
require consideration by a smaller group; or (c) when the Executive
Director requires an advise-and-consent service.

(ii) Duties. It shall be the duty of the Executive Committee to assist
the Board of Directors by: (a) giving preliminary consideration to
matters which do not come within the purview of other committees
or where time does not permit referral to the otherwise appropriate
committee; (b) meeting shortly before each meeting of the Board of
Directors to study agenda items with the purpose of clarifying their
presentation to the Board of Directors in order to obtain informed
Board decisions in the shortest time; and (c) considering such
specific matters as shall be referred to it from time to time by the
Board of Directors and taking such action with respect thereto as
shall be called for by the Board's referral.

(iii) Responsibilities. The Executive Committee shall be
responsible to the Board of Directors for providing: (a) overall
supervision of the Headquarters of the Society, and (b) advise-and-
consent services to the Executive Director in connection with
operational matters and policies, including major staff appointments
and personnel policies.

(iv) Right of Co-optation. The Executive Committee shall have
the power, as occasioned, to co-opt, as resource persons, such
members of the Society, or others, as it shall deem appropriate to
discharge its duties and functions.

(v) Limitations. The Executive Committee shall not have the
power to: (a) elect or remove officers, except to remove the
Executive Director; (b) act in contravention of policies established by the Board of Directors; (c) authorize the sale or other disposition of all or any substantial portion of the assets of the Society; (d) act for the Board of Directors in granting and revoking charters for chapters or (e) create and authorize new policy.

(vi) Record of Actions. A record shall be kept of the formal actions of the Executive Committee, and a report thereon shall be made to the next meeting of the Board of Directors as the Board shall from time to time require.

(vii) Quorum. Five members, including designated alternate members, shall constitute a quorum of the Executive Committee.

Section 6. Committees of the Society. Unless otherwise specified in the Bylaws or in a resolution of the Board of Directors, the membership of Committees of the Society will be by appointment by the President, with the advice and consent of the President-elect, upon recommendation of the Committee Chair. The President and the President-elect shall be members, ex officio, and with the vote, of all committees except the Committees on Audit Review and Nominations. In the event that a member of a Committee, other than the Committee on Nominations, is unable to attend a scheduled meeting, the Chair of the Committee, after consultation with the Executive Director and the member concerned, may co-opt a qualified person to serve, with the vote, in the member's place. A Chair of a committee other than the Committee on Nominations, may also invite other individuals, as resource persons without vote, if in consultation with the Executive Director such participation is deemed necessary for the discharge of the Committee's mandate.

A. Committee on Finances. (a) Membership of the Committee. The Committee on Finances shall consist of the Treasurer as Chair, together with the President, the President-elect and the Executive Director, ex officio, and six members, three of whom shall not be Directors, nominated by the Treasurer and approved by the Board of Directors for three-year staggered terms. An elected member of the Committee shall be limited to two full successive terms but may be nominated again for a term commencing at least three years after termination of the previous term. (b) Duties. It shall be the duty of this Committee to advise the Board of Directors of the Society and of the Corporation regarding all aspects of the finances of the Society and Corporation, including, but not limited to the raising and acquisition of capital funds; the investment of its endowments, funds
and reserves; and the annual budgets for research, operations and capital equipment, including the physical plant. It shall prepare an annual budget for the consideration of the Board of Directors, and a copy of the annual budget will be furnished to each active member and chapter at least 60 days prior to the Assembly of Delegates.

B. Committee on Audit Review. The Committee on Audit Review shall consist of three members appointed at the Annual Meeting of the Board of Directors of the Corporation to serve between Annual Assemblies of Delegates for three-year staggered terms. The senior member shall serve as Chair. It shall be the duty of this committee to: (a) discuss with the auditors the scope and results of their examinations, (b) establish and maintain an open line of communication between the Board of Directors and the auditors, (c) assure itself that the accounting procedures and financial controls of the Society and of the Corporation adequately safeguard the assets of the Society and of the Corporation and ensure the reliability of its financial records and (d) ascertain that the official auditors do contribute to Sigma Xi any and all of the affirmative comments and suggestions which can be helpful in improving the overall operations of the Society.

C. Committee on Nominations. (a) The Committee on Nominations shall consist of one member elected by each geographic region, one member elected by each constituency group, one member elected by the membership-at-large, and the three most recently retired and available presidents of the Society. The Chair shall be elected by the Board of Directors from among the members of the Committee other than the retired presidents. No Director may serve on the Committee. The elected members of the Committee shall be elected to three-year rotating terms. An elected member of the Committee shall be limited to one three year term but may be nominated again for a term commencing at least three years after termination of the previous term. It shall be the duty of this Committee to present nominations to the Assembly of Delegates for Society officers, the officers to be elected as required by Bylaw III, Section 3 B (i), which nominations may not include individuals currently serving on the Committee. All nominations by this Committee shall reach the Executive Director in sufficient time to be included on the next annual election ballot in the call of the Assembly of Delegates as required in Article III, Section 2 B of the Constitution. Procedures of this Committee shall conform to those
established by the Executive Committee, and copies thereof shall be furnished to each member of the Committee immediately after election or designation. The term of this Committee shall commence upon the adjournment of the Assembly of Delegates and terminate upon the adjournment of the succeeding Assembly of Delegates.

D. Other Committees of the Society. Committees for the operations and activities of the Society may be established and disestablished by the Board of Directors from time to time. The Board of Directors shall define the duties and responsibilities of a committee, the number of members to serve on the committee, and the duration of the committee. In establishing a committee, the Board of Directors, by a two-thirds vote, may require that the committee be disestablished only by a two-thirds vote. Unless otherwise provided for in the resolution establishing a committee, the chair of the committee shall be elected by the Board of Directors.

E. Terms of Chairs and Members of Committees. Terms of chairs and members of all committees of the Society, except for the Committee on Audit Review and the Committee on Nominations, which have special terms as set forth in the appropriate Bylaw, shall coincide with the Society's Year.

F. Reports of Committees. Reports and recommendations of committees made to the Board of Directors of the Society shall also be considered made to the Board of Directors of the Corporation whenever and wherever deemed necessary.

A. Notice. Notice shall be interpreted to be: (a) 15 days for meetings of the Board of Directors, and (b) five days for meetings of the Executive Committee and any committee of the Society.

B. Manner of Giving Notice. Notice shall be given by mail, telephone, telegraph, electronically or personally. Meetings may be held by conference call. Notice may be waived either before or after a meeting by any person entitled thereto.

(reserved)

The Executive Director. The Executive Director shall be the custodian of the Seal of the Society and of the Archives of the Society, and shall plan and direct the affairs of the Society in
accordance with the guidance of the President, President-elect, Immediate Past President, Treasurer and the Executive Committee, subject to the policies established by the Board of Directors. Unless the Board of Directors shall make other arrangements, the Executive Director shall serve as the publisher of the publications of the Society.

Section 10. (reserved)

BYLAW IV. Dues and Expenses of the Society

Section 1. Dues and Fees. A. Annual Dues. (i) How Set. Dues for the active membership, except for Life Members, shall be set annually by a plurality vote of the Assembly of Delegates upon the recommendation of the Board of Directors at a rate consonant with the policies relative to dues and financial administration set by the Assembly of Delegates.

(ii) Reduced Dues. Members and Associate Members who are eligible may request one or other of the following reductions, but not both. (a) Same household. In cases where two members of the same household are active in the Society and only one copy of American Scientist is requested, a reduction equal to one-half of the annual dues of that member not receiving copies of American Scientist is made in the combined annual dues, provided that both renewal notices are paid and returned together. (b) Full-time students. Members or Associate Members who are full-time degree-seeking students at an institution of higher education may request reduced dues as established according to Bylaw IV 1 A (i).

(iii) Emeritus Members. The annual dues of each emeritus member shall be equal to one-half of the current dues for the active membership established according to Bylaw IV 1 A (i), and it may be paid either by the individual or by the chapter with which the member is affiliated on the member's behalf.

B. Life Membership Fee. The amount of the fee for life membership shall be set from time to time by a plurality vote of the Assembly of Delegates upon recommendation of the Board of Directors.

C. Initial and Promotion Fees. (i) How Set. The amount of the initial fee for newly elected members, and the amount of the promotion fee for promotion to full membership, shall be
recommended by the Board of Directors and approved by a plurality vote of the Assembly of Delegates. Initiates, and Associate Members seeking promotion who are not active, shall also be required to pay one year's annual dues as a condition of election or promotion.

(ii) **Reduction of Initial Fees.** Any chapter may elect to reduce the initial fees by an amount equal to the local support allocation with the provision that no local support for that individual will be paid to the chapter with which that initiate is active during the first fiscal year following election. Any chapter electing to have reduced initial fees must do so for all such fees in that fiscal year.

D. **Assessments.** If and when necessary for capital expenses, an assessment may be levied on all active members in such amount and payable on such terms as may be recommended by the Board of Directors and authorized by a plurality vote of the Assembly of Delegates.

E. **Local Chapter Dues.** Local chapter dues, if assessed, shall be set in an amount and by procedures provided for in the bylaws of the chapter. The chapter shall have the option of collecting them directly or requesting the Treasurer of the Society to collect them.

Section 2. **Expenses.** A. **Proper Expenses.** The proper expenses of the Society shall include, but are not limited to, the following: operations of the Headquarters of the Society; publication of *American Scientist*; the Lectureships Program; Grants-in-Aid of Research; authorized travel expenses of the staff, officers, members of the Board of Directors and members of committees in accordance with regulations approved by the Board of Directors; subvention of travel for delegates attending an Assembly of Delegates in accordance with regulations approved by the Assembly of Delegates and local support allocations.

B. **Local Support.** The sum allocated from annual dues by a plurality vote of the Assembly of Delegates for local support of the chapters shall be forwarded by the Executive Director to the treasurers of the chapters, except that local support shall be withheld from any chapter not currently in good standing as defined in Bylaw III, Section 1 B.

BYLAW V. **Seal and Insignia of the Society**
Section 1. **The Seal of the Society.** The Seal of the Society shall show a wreath of laurel, typifying the honorary character of membership in the Society, arranged as an oval and enclosing the words "Sigma Xi, The Scientific Research Society" at the top, and the motto, in Greek, at the bottom. These words shall form an inner oval, concentric with the first, punctuated with ten stars, and enclosing a field illuminated by a Grecian lamp to represent the Lamp of Research. Above the lamp, in the field of illumination, shall be placed the monogram of the Society and the date, 1886, when it was founded.

Section 2. **Official Insignia.** The official insignia shall be:

A. **The Key.** A gold watch-chain pendant, charm or pin consisting of a four-piece monogram style of insignia in the shape of a key described as follows: the base is a large, brightly polished Greek letter X (Xi) scrolled out to shape and superimposed thereon a Greek letter S (Sigma). Affixed to the top of the base letter is a decorative post and ring, and at the base, a standard decorative key end. On the reverse side of the key may be engraved the name of the chapter in which the Member or Associate Member was initiated together with the date of initiation and initiate's name.

B. **The Ring.** A gold insignia ring bearing the monogram of the Society together with a wreath of laurel, appropriately mounted.

Section 3. **Procurement.** The various insignia shall be obtained only through the Office of the Executive Director, who shall arrange to have authorized orders filled by an official jeweler, the latter appointed by the Executive Director with the approval of the Board of Directors.

Section 4. **Colors.** The colors of the Society shall be electric blue and white.

Section 5. **Stationery.** The official stationery of the Society shall bear the monogram described in Article V of the Constitution.

BYLAW VI. **Terms of Regional Directors in the Northwest and Southeast Regions.**

Section 1. **Temporary arrangements for terms of Directors and Associate Directors in the Northwest and Southeast Regions.** Notwithstanding the provisions of the preceding Bylaws, the following arrangements shall be made during the
A. Terms of Office for Directors and Associate Directors in the Northwest and Southeast Regions Elected in 2004 and 2005. (i) Directors. Regional Directors elected at the 2004 annual meeting in the Northwest and Southeast Regions shall serve a term of four years from 1 July 2005 until 30 June 2009. In the event a vacancy should occur in one or both of these positions, the provisions of Bylaw III 4 B (ii) shall apply.

(ii) Associate Directors. Associate Directors elected by the Northwest and Southeast Regions at the annual meeting in 2005 shall serve a term of two years from 1 July 2006 until 30 June 2008.

Section 2. Automatic revocation of Bylaw. This Bylaw will be revoked and annulled on 30 June 2009 without further action by the Board of Directors.

**BYLAW VII. Elections and Initiations of Terms of Officers and Directors**

Section 1. Annual Elections
The Executive Director shall cause an annual election of officers and directors to be held by secret ballot of the active membership no later than the end of the seventh month of each Society year. Balloting may be by written ballot or by electronic means as determined by the Executive Director in consultation with the Board of Directors.

Section 2. Runoff Elections.
Where required plurality or majority votes are not earned by any candidate or candidates for any particular office, offices, directorship or directorships, the Executive Director shall cause to be held a runoff election no later than the eighth month of the society year wherein the two candidates for each office or directorship having earned the first and second highest number of votes shall be the runoff candidates. In the event of ties in runoff elections, the results of the tied elections shall be determined by the Board of Directors by majority vote thereof no later than than the ninth month of the Society year.

Section 3. Initiation of Terms
The terms of elected officers and directors shall commence on the first day of the Society year immediately following the Society year in which the officers and directors were elected.
Section 4. Recall Elections
A recall election shall be conducted by the Executive Director after receipt and verification of a petition. Verification of the petition shall consist of a determination by the Executive Director that, in the case of a recall petition by members, there are sufficient active members among the petitioners. In the case of a recall petition submitted by a group of chapters, verification shall consist of a determination by the Executive Director that there among the petitioning chapters a sufficient number of active chapters. Sufficiency shall be in accordance with the provisions for recall in the Constitution. The election shall be conducted in a manner consistent with the conduct of annual elections as soon as possible after verification, and in no case later that 60 days from the submission of the petition. The results of a recall election shall be effective immediately upon certification of the votes therein. Certification shall consist of verification by the Executive Director that each vote cast was that of an active member.