

Policies and Procedures

Guidelines of the

Society for College Science Teachers

Revised by Linda L. Tichenor, Secretary/Treasurer

March 2012

MEETINGS

Each division affiliate of the NSTA receives 10 hours of program time at the National Convention and 2 hours of program time at each Regional Convention. A Council-at-Large assigned to each Regional Convention should "reserve" time by writing to the Convention Office of NSTA prior to the January abstract deadline imposed for participation in the regional conventions. Arrangements for the National Convention are made through the Convention Office at NSTA (Dina Weiss).

A. NATIONAL MEETINGS

SCST holds its annual meeting in conjunction with NSTA. In addition to 10 hours of program time, the SCST Executive Board meets, the annual Business Meeting of the Membership is held, and a Social after the business meeting for members and invited guests is held. A poster session to display research and activities of members and student members takes place in conjunction with the social. This social and poster session is for science teachers and students in higher education. The President-Elect is in charge of making the arrangements for both events.

A Past-President's Breakfast is held in conjunction with colleagues on the Advisory Board during one of the mornings of the convention. The immediate Past-President is in charge of making the arrangements

The composition of the Advisory Board is defined in the By-laws. The President and President-elect have specified obligations as a member or incoming member of the Alliance of Affiliates or other NSTA committees.

Room Reservations

Room reservations are to be made by each Executive Board member through the NSTA housing office.

The SCST President-elect informs EB members as to the hotel in which SCST sessions will be held as early as possible.

Membership Table

A membership booth for the National Meeting may be arranged through the Exhibits Office at NSTA. If a booth is decided on, the SCST Membership Chair will initiate the process under the Membership Chair's name as the contact person. The Executive Board can decide to erect a membership table at the SCST sessions room in the hotel or conference hall. The SCST table cover and banner should be displayed at either of the membership table sites.

At the national convention materials available at the table include dated Newsletters, Abstracts, Membership brochures, Teaching Tips and copies of the Journal of College Science Teaching. Copies of Monographs may also be on display. The Membership Chair will oversee that materials are available.

The National Membership Chair will arrange for persons to be at the booth as much as possible during the convention. A member in the local region may be appointed to coordinate SCST member representation at the booth.

If it is decided to sponsor a membership table in the Exhibit Hall, reservations for badges will be made by the National Membership Chair, and will be made available as needed to appropriate SCST members and student helpers, up to a maximum of six.

B. Councilor Guidelines/Regional Meetings

A Councilor should be appointed as responsible for each regional meeting by the SCST President no later than the fall meeting of the prior year. Guidelines for SCST Councilors-at-Large at the Regional NSTA Meetings that are approved are:

Session Program

1. The individual should communicate with NSTA regarding the program and their deadlines.
2. Identify a local SCST program developer, when possible, for the SCST component in the NSTA program as soon after the Fall Meeting as possible. This could be the local membership coordinator (National Membership Chairperson can supply names, labels, etc. for both the local program developer and the local SCST members who should become participants of that program). Should a local SCST member not be available for a given location, the Councilor assigned the regional site will be responsible for organizing the program. This effort would include locating session presenters and providing the Program Committee at NSTA with titles, abstracts and times of the speakers.
3. Among the forms of advice that could be directed to the local program developer are: a) use of local SCST members as presenters; b) use of non-SCST colleagues that might wish to talk to their SCST counterparts; c) use of poster sessions, and/or d) workshops.
4. Provide information regarding the SCST/NSTA schedule deadlines for the local SCST program developers.
5. Encourage and assist (as appropriate) the local SCST program developer to become actively involved with the formal NSTA program structure for that regional meeting. Proper identification of the SCST program and people are a major emphases here.

C. Executive Board Meeting and Social

The Executive Board meets during one of the regional meetings. This Executive session may be on site, actually meeting at the regional, or distance, with members utilizing distant communication technology. The decision is made one year in advance by the Executive Committee, and the venue publicized to the membership in the summer Newsletter.

A social may be held at the meeting where the Executive Board meets. A social also may be held at other regionals.

Hotel Reservations:

Each Executive Committee member will make his/her own reservations for the fall Board Meeting based on information provided by the Councilor in charge of the regional meeting regarding the hotel of the SCST sessions and the restaurant where the meeting may be held.

COMMITTEES

A. Nominations Committee

The Nomination Committee is appointed by the President and consists of the Retiring President, who serves as Chair, and other members who are not current members of the Executive Board. *See elections for additional policy.*

The function of this Committee is to prepare the single state of nominees (one candidate per office) for elective positions within the Society each year.

There are two Councilor positions each year. One Councilor for each position will be elected by the membership. The slate is brought to the Secretary-Treasurer at least sixty days prior to the Annual Meeting of the Society, in time for nomination notices and ballots to be prepared and sent to members.

B. Other Committees

Except for standing committees as listed in the By-laws (the Executive Board, Nominating and Membership), all committees shall be ad hoc and last for a period of two years (renewable). A committee shall be appointed by the President only when (1) an identified need exists for its existence and (2) an individual willing to chair the committee has been identified.

Committee Information

Specific charges shall be given to a committee by the Executive Board. An appropriate member of the Executive Board shall be assigned as liaison to each committee.

A proposed budget shall be submitted to the SCST President by the committee chairperson. This follows preliminary discussions with the Executive Board relating to the committee's charge. Upon approval of a budget by the Executive Board, the appropriate expense requests

shall be submitted to the Secretary-Treasurer on a timely basis by the committee chairperson. Revisions of the approved budget may be proposed at any time to the Executive Board by the committee chairperson

The chairperson of the committee shall submit a progress report (written or verbal) at each fall meeting of the Executive Board.

A progress/final report shall be made (written and verbal) at the SCST annual business meeting. A travel expense supplement shall be allocated for each committee to have its chairperson (or another committee member so designated) to attend the annual convention.

NEWSLETTER

A Newsletter editor shall be appointed for a two-year term by the President.

A. Timeline

The Newsletter is issued four times per year in conjunction with meetings of the Society as follows:

	Fall (pre-regionals)	Winter (post-regionals)	Spring (pre-annual)	Summer (post-annual)
Materials to editor	August 31	November 15	January 15	May 1
Mailed to Membership	September 30	December 1	February 21	July 15

B. Contents of the Quarterly Newsletter

Required Materials and Responsibility for those materials as follows:

	Fall	Winter	Spring	Summer
President's Report	X	X	X	X
Membership Report	X	X	X	X
Editor's Report	X	X	X	X
Financial Report (Sec/Treas)	if needed	X	if needed	X
Board Election Call for Nominations (Past-Pres)	2nd			1st
Board Election Nominee bios/pics			X	
Board Election Call for Ballot info (Sec-Tres)			X	
Best Practices-Teaching Tips (all members)	X	X	X	X
Exec Meeting- Mtg Announcements	X		X	
Business Meeting- Fall Report (Sec/Treas)		Spring		Fall
Business Meeting- Spring Announce (Pres)			X	
Business Meeting- Approved Budget (Sec/Tres)			X	
OUSTA – Call for Nominations (1 st call)			X	
OUSTA- Call for Nominations (2 nd call)				X
OUSTA – Review Candidate Packets	X			
OUSTA- Announce Winner		X		
OUSTA- 1st Call Nominations			X	
OUSTA- 2nd Call Nominations				X
Regionals- Call for Submissions (CAL)	X			
Regionals- Mtg. updates: invitations, previews	X	X	X	X
Regionals- Recaps and Pics (CAL)		X		
Natoinal- Call for Submissions (Pres Elect)		1st	2nd	
National-Mtg:updates sessions previews(PElect)	X	X	X	X
National- Schedules sessions, luncheon, poster symposia, etc(Pres-Elect)			X	
Sponsorship recognitions			X	
National- Recaps & pics				X
Call for Presenter Papers	X		X	
Call for Membership Contributions&Announce	X	X	X	X
Teaching Tips	X	X	X	X

SCST MINIGRANT PROGRAM

Purpose:

The purpose of these funds is to support the goals of SCST through activities that promote awareness of the significance of science and improvement in the teaching of college science courses.

Activities Eligible for Support:

- Conferences and Workshops at the local or regional level for college teachers of science
- Public Lecture or Exhibit for teachers of science and/or the general public
- Research on College Science Teaching such as development of instruments and acquisition of data that promise to fulfill the purposes of this program
- Publications of materials of interest to college teachers of science and/or the general public

Projects in cooperation with other professional societies are eligible for partial support; stipends and salaries will not be supported. The only travel money allowed would be for the purposes of data collection.

Application Procedure

- *Eligibility:* Minigrant applications may be submitted by either individual SCST members or by organizations. If the application is made by an organization, an SCST member participating in the proposed activity must be a signatory on the application. Member serving on the SCST Board of Directors are not eligible for the minigrant award while they are participating in any Executive office.
- *Proposal Format:* 300-500 word, typed and double-spaced narrative outlining: objectives of project, description of project, evaluation criteria, time line, and budget.
- *Proposal Submission:* Proposals may be submitted at any time of the year, but will be considered by the Executive Board at its meetings during the fall and again during the spring. Proposals should be submitted in duplicate--one copy sent to the SCST President, the other to the President-Elect.

AWARD: Criteria for Selection

- Projects that fulfill purposes of the Minigrant Program;
- Projects related to current needs and goals of SCST;
- Projects that promise long-term benefits;
- Projects that will impact a significant number of people

No individual or institution of higher learning shall be awarded a minigrant without the unanimous approval of the Executive Committee. In most all circumstances, a period of 3 consecutive years must pass before an award winner would be eligible for another minigrant.

OUSTA - SOCIETY FOR COLLEGE SCIENCE TEACHERS - OUTSTANDING UNDERGRADUATE SCIENCE TEACHER AWARD

A. Purpose

To recognize the achievements of our teaching colleagues who have enhanced the profession as outstanding teachers of science. This annual award is based upon a selection process that evaluates nominees according to the following ranked categories: 1) teaching excellence; 2) scholarship; and 3) service.

Nominees need not be a member of SCST, but should have been actively involved in teaching undergraduate science for the previous five (5) years. Nominations may be made by colleagues, students, or one.

B. Category Guidelines

The criteria for each category shall include, but not be limited to the following:

- *Teaching Excellence* as evidenced through teaching philosophy and effectiveness, teaching innovations, course and curricula development, and peer/student/self evaluations
- *Scholarship* as evidenced through publications in science education, presentations at regional or national meetings, grants received and other forms of scholarship including discipline-based research.
- *Service* to science education, students, the profession, scientific and educational organizations, the nominee's institution/college/department, local teachers and their school systems, and the general public with the overall goal of enhancing understanding of scientific issues.

C. Materials to be Submitted

Entries should consist of a narrative statement, no longer than five pages, which include: a statement of teaching philosophy; a description of teaching strategies and innovations; a description of contributions to the discipline or pedagogy; and evidence of commitment to making a contribution to the community beyond the classroom.

- a) a letter of recommendation from the nominee's Dean or Department Chair that specifically addresses teaching effectiveness and summarizes student evaluations of the candidate's teaching;
- b) one or two additional references from colleagues;
- c) one or two recommendations from students;
- d) a current resume or curriculum vitae.

Supplemental materials may also be submitted but should not exceed five pages in length.

D. Submission Timeline

1. June 1 of nomination year - application packets due to Selection Committee Chairman
2. September 1 of nomination year - OUSTA Committee makes notification to SCST President
3. September 15 of nomination year - SCST Executive committee decision.

E. Selection Procedure

After consultation with the SCST Executive Committee, the President will annually appoint the Award Selection Committee prior to the spring annual meeting of SCST. Membership shall consist of three (3) SCST members whose primary role as faculty is in the teaching of undergraduate science and are not currently serving on the Executive Board, and one of the SCST Councilors-at-Large members. The Chair of the Selection Committee shall be the Councilors-at-Large, who will serve as director for two years.

This committee is responsible for the solicitation of nominations, the evaluation of the nominees and has the delegated authority to design and implement whatever review procedures are deemed best for a timely and valid review. A letter regarding any recommendation by the Committee must either be sent to the President in time for the fall meeting of the Executive Board or announced by the Chair of the Selection Committee at the meeting. Final approval or rejection of the Committee's selection rests with the Executive Board. Subsequent notification of the award winner and presentation of the award will be carried out by the President. After the President has notified the award winner, the Chair of the Selection Committee will place an announcement of the winner in the SCST-

The winner of this award will receive a \$1500 award check, a plaque, a complimentary one year joint membership in SCST and NSTA, and \$500 for travel to that year's NSTA national convention.

F. Duties of the Award Winner

The winner of this award agrees to attend the NSTA national convention for that year and serve as the speaker for the College Luncheon. The topic for this talk should focus on his/her innovations or strategies in teaching.

It is also expected that the winner will participate in specified SCST convention events and activities (e.g. Past President's Breakfast, Business Meeting, socials) during the NSTA meetings for which travel support is being provided.

G. Marjorie Gardner Lecture

The OUSTA winner returns the year following accepting the honor to give a keynote address at the Marjorie H. Gardner Lecture series. The topic of the talk should be in the honorees discipline that would appeal to a wide audience. The awardee will be reimbursed \$750 for travel to the NSTA nation convention to give the Marjorie Gardner Lecture.

SOCIETY OF COLLEGE SCIENCE TEACHERS WEBSITE

The website, controlled and maintained by the Society, contains the following:

- Electronic versions of all newsletters
- Contact information for the Executive Board
- Information regarding National and Regional conferences
- OUSTA and Mini-Grant application and past recipients
- Downloadable files of By-Laws and Policies and Procedures
- Information regarding membership services and renewal
- Listings of academic positions advertised through SCST (cost \$50.00)
- Any other information deemed necessary by the Executive Board.
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SCST MONOGRAPHS

A. Purpose

To document and communicate innovative ideas and approaches to issues that foster excellence, with the thought of stimulating more effective science teaching at the college level.

B. Topics

May cover a wide variety of topic areas including, but not limited to, issues that deal with creative and effective ideas for developing courses or curricula, the teaching of difficult concepts, and providing interesting learning experiences in science for college students.

C. Process

The topic of the Monograph and a tentative budget may be submitted to the SCST Executive Board at the initiative of any member of the Society for College Science Teachers. Work on a Monograph should begin at least one year prior to publication to ensure that the publication contains quality material.

The Executive Board must

1. Approve the topic and budget
2. Provide for funding of the project
3. Approve an Editor for the project
4. Appoint an ad hoc committee responsible for the
 - a. Solicitation of articles, including those from the SCST membership via Newsletter
 - b. Review of submitted articles and
 - c. Organization, publication and distribution of the monograph.

Editorial guidelines should be consistent with those of the society.

The completed monograph shall be distributed free of charge to SCST members; the Editor, in consultation with the Executive Board may negotiate with NSTA to purchase copies for sale to NSTA members. It may also be distributed to agencies funding improvements in college science education.

The SCST President shall be responsible for reporting to the Executive Board on the progress of the Monograph.

PROCEEDINGS FROM THE NATIONAL MEETING OF THE SOCIETY OF COLLEGE SCIENCE TEACHERS

Beginning with the 2010 national conference, the Society will publish “Proceedings of the National Meeting of the Society for College Science Teachers.” The appointed editor of the Proceedings Bulletin is permitted and encouraged to solicit presentation summaries from presenters to be substituted for their abstracts in the proceeding prior to publication following a procedure and timeline to be determined by the editor.

OTHER PUBLICATIONS

A. Proceedings Communique

The Needs and Problems of Under Represented Students, With Possible Solutions, Ted Lopushinsky, Editor, 1992

B. Directory of Science Literacy Consultants

Nathan Dubowsky and Elliot Hartman, Editors, 1990

C. SCST Membership Directory

Brooke Pridmore, Editor, 1992

D. SCST Councilor-at-Large Survival Manual

This bulletin was prepared to answer the numerous questions posed by incoming Councilors-at-Large to the Executive Board of Directors. Grace Eason, Editor, 2006.

TRAVEL SUPPLEMENTS

The following supplements are available to elected officers of the Society. Only one-half of the supplement~. available if an officer only attends one of the two meetings.

President: \$400.00 per calendar year

President-elect, Immediate Past President, Secretary- Treasurer, Councilors-at- Large, and the National Membership Chair: \$400.00 per calendar year.

Participation in regional and national meetings by appointed officials (Newsletter Editor, Webmaster, & Historian) is encouraged. When a non-elected official is requested by the President to present a report to the Executive Board concerning his or her office, a monetary supplement equal to that of a Councilor-at-Large to attend the meeting will be issued to the officer.

Appendix I

A. Statement of Purpose for the formation of the Alliance of Affiliates

The purpose of Affiliation with the National Science Teachers Association is to encourage cooperative meetings, projects, and initiatives between and among the NSTA and Affiliate organizations to promote excellence and innovation in science teaching and learning for all.

B. What NSTA's creation of the Alliance of Affiliates will do for SCST

Provides SCST with more independence in organizational, financial and membership matters

SCST loses its right to have a voting voice on the NSTA Council

SCST retains right to have its concerns discussed by the NSTA leadership

Enables SCST to retain a national voice in education (particularly higher education)

Enables SCST to continue to share large projects with NSTA (i.e.: Symposium on BioTerrorism)

Enables SCST to continue to offer 10 hours at the National & 2 hours at Regional Conferences

Enables SCST to hold board & business meetings and socials at National/Regional Conferences

Enables SCST President to serve on Division Committees & Publications Advisory Boards.

Enables SCST to promote presentation & poster sessions in NSTA web pages and newsletter

Enables SCST to continue NSTA's support for awards & recognition programs

Allows SCST to recruit members who are not affiliated with NSTA

Allows SCST right to collect and handle its own dues

Allows SCST to retain voice in the *Journal for College Science Teachers*

Allows SCST to retain *Journal for College Science Teachers* as official publication

Provides SCST the opportunity to develop its own Journal

Provides SCST the opportunity to attend the NSTA summer workshop/meeting.

Provide SCST opportunities to attend NSTA focus groups and workshops.

Provide SCST President with travel and per diem expenses to attend the summer meeting

Provides SCST President, if member of the Leadership Committee, to attend winter meeting

Provides SCST Pres on Leadership Committee travel and per diem expenses for winter meeting

Provides SCST with joint membership opportunities with appropriate financial incentives

AFFILIATION AGREEMENT

SCST & the Alliance of Affiliates Agreement & Purpose with National Science Teachers Association

This Agreement is by and between the National Science Teachers Association ("NSTA"), located at 1840 Wilson Blvd, Arlington Virginia, 22201 and (name of affiliate), a non-profit 501(c)(3) organization located at _____ ("Affiliate").

WHEREAS, NSTA desires to establish affiliated relationships with organizations dedicated to science education, to encourage cooperative meetings, projects, and initiatives and to promote excellence and innovation in science teaching and learning for all; and

WHEREAS, Affiliate desires to become affiliated with NSTA under the terms and conditions of this Agreement;

NOW THEREFORE, the parties hereto agree to the following:

1. The relationship between NSTA and Affiliate, including the requirements for affiliation, shall be governed by the terms and conditions of this Agreement and the "Affiliation with NSTA Guidelines" (the "Guidelines"), NSTA Leadership Manual and NSTA Operating Policies, which are incorporated by reference and made apart of this Agreement. The Guidelines, Leadership Manual and Operating Policies may be modified, amended or changed by NSTA from time-to-time at its discretion. In such instance, Affiliate will be notified of any such modifications, amendments or changes which shall be effective as of the date of notification.
2. NSTA and Affiliate are not and shall not be considered joint venturers, partners, legal representatives or agents of each other. At no time shall either party act or represent itself to be acting in any of these capacities under this Agreement. Neither NSTA nor Affiliate shall have the right to or power to bind or obligate the other party in any manner and shall not make or represent that it has power to make any contract, agreement, representation, warranty or obligation, express or implied, on behalf of the other party.
3. Neither NSTA nor Affiliate shall be liable for any act, error, omission, debt or other liability or obligation of the other party unless specifically consented to in writing. The parties agree to indemnify, defend and hold each other harmless from any and all claims, liabilities, damages, judgments, settlements and costs, including reasonable attorney's fees and costs, arising out of or relating to their respective negligent acts or omissions or willful misconduct.
4. Affiliate shall comply with all applicable laws including but not limited to corporate and tax laws and shall keep current its legal status and all licenses.
5. Intellectual property owned by a party prior to entering into this Agreement, including copyrights and trademarks, shall remain the exclusive property of that party which shall retain all rights thereto. Use of such intellectual property is subject to approval by the owner. During the term of this Agreement, the parties may state and represent, including on

printed materials and their respective websites, that Affiliate is an affiliated organization of NSTA.

6. It is understood that the parties may enter into additional agreements regarding the conducting of symposiums, meetings and other activities and events, and for the production of educational, promotional, and membership publications and materials and related matters (collectively, "Events and Activities"). The terms of such agreements, including responsibility for planning, conducting, advertising and promoting such Events and Activities, ownership of intellectual property rights and costs and risk sharing, shall be subject to negotiation and the mutual agreement of the parties.

7. Subject to the termination rights set forth in paragraph 8, this Agreement shall be in effect for a period of one (1) year from the date of signing by both parties, and may be renewed for additional one year terms by written agreement of the parties. Upon termination of this Agreement, the parties shall cease representing or claiming that Affiliate is an affiliated organization of NSTA. The term "Agreement" as used herein shall include any renewal agreement, as applicable.

8. Notwithstanding anything to the contrary, this Agreement, may be terminated by either party at any time upon: (i) mutual agreement of the parties; (ii) disaffiliation of Affiliate under the procedures specified in the Guidelines; (iii) insolvency or filing for bankruptcy of either party; or (iv) material breach of this Agreement provided that the non-breaching party provides notice of the basis for termination and affords the other party a reasonable opportunity, not to exceed thirty days, to cure the breach.

9. The parties may share membership and other confidential or propriety information ("Confidential Information") with the other party during the term of this Agreement. The parties agree (i) to use such Confidential Information only as provided under this Agreement and during its term, (ii) not to permit any unauthorized use of the Confidential Information, and (iii) upon termination of this Agreement, to return all Confidential Information belonging to the other party and/or remove such information from its files.

10. If any provision of this Agreement is determined to be unenforceable or invalid under any applicable statute or rule of law, the remaining provisions of the Agreement shall not be affected and shall remain in full force and effect.

11. A waiver of any term, provision or condition of this Agreement shall not be deemed a continuing waiver of any such term, provision or condition. No waiver shall be valid or binding unless agreed to in writing and signed by NSTA and Affiliate.

12. This Agreement shall be binding upon and shall inure to the benefit of the parties and each of their respective successors and permitted assigns, provided that neither party may assign any right or obligation under this Agreement without the other party's prior written consent.

13. Any notice or other communications required or otherwise sent or given pursuant to this Agreement shall be in writing, signed by the sending party, and shall be deemed to be sufficient if delivered personally, by facsimile transmission with appropriate confirmation, by certified mail with return receipt, or by recognized express courier to the parties at the addresses listed in this Agreement (or at such other address for a party as shall be specified by like notice).

14. This Agreement shall be governed exclusively by and construed in accordance with the laws of Virginia without giving effect to its conflicts of law rules. Any dispute, claim or controversy arising out of or in any way related to this Agreement shall be submitted for resolution before, and each party expressly consents to the exclusive jurisdiction and venue of the United States District Court for the Eastern District of Virginia or the Circuit Court for Arlington County, Virginia. Any judgment thereon may be entered or otherwise enforced in any court of competent jurisdiction.

15. The person executing this Agreement hereby declares, represents, warrants and agrees that he or she is duly and fully authorized to execute this Agreement so as to legally bind the named party.

16. The parties agree that this Agreement is the entire Agreement between the parties and represents their full and complete understanding. All prior agreements, negotiations, understandings, communications, oral or written, have no force and effect except as embodied herein. This Agreement may not be modified except in writing signed by both parties.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date indicated.

National Science Teachers Association

SIGNATURE BLOCK
XXXXXXXX, XXXX
XXXXXXXX, XXXXXX

(Date)

Affiliate

SIGNATURE BLOCK
XXXXXXXX, XXXX
XXXXXXXX, XXXXXX

(Date)

Appendix II

ARTICLES IN SCST COLUMN IN THE JOURNAL OF COLLEGE SCIENCE TEACHING

- Vol. 10 #6 May 1981. Peter Fenner, *SCST: New Initials for a New Era*. 380.
- Vol. 11 #1 September 1981. Marvin Druger, *A Step Forward for SCST*. 52-54.
- Vol. 11 #2 November 1981. Marvin Druger, *Bridging the Gap* 118.
- Vol. 11 #3 December 1981. Marvin Druger, *Joining an SCST Committee*. 180.
- Vol. 11 #4 February 1982. Marvin Druger, *On the Evaluation of College Science Teaching*, 254-255.
- Vol. 11 #5 March 1982. Marvin Druger, *Objectives for an Introductory Science Course*, 322-323.
- Vol. 11 #6 May 1982. Marvin Druger, *SCST: The Year in Retrospect* 384.
- Vol. 12 #1 September 1982. Charles Estee, *Where Have all the C Students Gone?* 58-59.
- Vol. 12 #2 November 1982. Charles Estee, *SCST and NSTA: Partners in a Common Cause*. 124.
- Vol. 12 #3 December 1982. Charles Estee, *Storm Days*. 228.
- Vol. 12 #4 February 1983. Charles Estee, *Admission Requirements and Quality Education*. 287.
- Vol. 12 #5 March 1983. Charles Eslee, *Seasonal Changes*, 304.
- Vol. 12 #6 May 1983. Charles Eslee, *Years End*. 368 & 454.
- Vol. 13 #1 September 1983 Robert Menefee, *Ask Not What SCST Can Do For You*. 7-8.
- Vol. 13 #2 November 1983 Robert Menefee, *High Technology*. 70-71.
- Vol. 13 #3 December 1983. Robert Menefee, *The Evaluation of Science Teaching* 138.
- Vol. 13 #4 February 1984. Robert Menefee, *Remedial, Developmental, Courses*, 200&304.
- Vol. 13 #5 March 1984. Robert Menefee, *Supporting Undergraduate Science Instruction*, 334.
- Vol. 13 #6 May 1984. Robert Menefee, *Science Technology and General Education*, 398.
- Vol. 14 # 1 September 1984. Sterling Smith, *SCST: Five Years Old and Growing* 6-7.
- Vol. 14 # 2 November 1984. Sterling Smith, *A Forum for Interdisciplinary Intervention*. 94.
- Vol. 15 #1 September 1985. Marjorie Gardner, *Good But Not Perfect*, 7-8.
- Vol. 15 #2 November 1985. William Frase, *Your Society at Work*, 88-89.
- Vol. 15 #3 December 1985. Ted Lopushinsky, *On Being A Member*, 167&215.
- Vol. 15 #4 February 1986. Robert Allen, *Profession Growth and National Conviction*, 423&476.
- Vol. 15 #5 March 1986. Eleanor Siebert, *Partners in Education*, 441.
- Vol. 15 #6 May 1986. Majorie Gardner, *Looking to the Future*. 503&566.
- Vol. 16 #1 September 1986. Robert Allen, *SCST - Challenges for the Future*. 7
- Vol. 16 #2 November 1986. Robert Allen, *Communities Revisited*. 86.
- Vol. 16 #3 December 1986. Robert Allen, *Precollege Science Teaching*. 158.
- Vol. 16 #4 February 1987. Robert Allen, *Interface Forums*. 238
- Vol. 16 #5 March 1987. Robert Allen, *Why Do We Teach?* 422.
- Vol. 16 #6 May 1987. William Frase, *The Society for College Science Teachers and its Future* 504 & 556.
- Vol. 17 #1 September 1987. W. Frase & Linda Crow, *Plight of Community College Sci. Instruction*. 8 & 48.
- Vol. 17 #2 November 1987. W. Frase, *Cadaver Ate My Notes, Tales Only a Scientist Could Appreciate*. 106.
- Vol. 17 #3 December 1987. William Frase & Tik Liem, *Eager Want*. 187-188.
- Vol. 17 #4 February 1988. Louise Squitieri, *Cue-How to Get Started Writing in Anatomy & Physiology* 279
- Vol. 17 #5 March 1988. William Frase, *Washington Happenings* 237.
- Vol. 17 #6 May 1988. William Frase, *About Science and the Way of Knowing*. 421
- Vol. 18 #1 September 1988. William Frase, *Phase II*. 11.
- Vol. 18 #2 November 1988. Eleanor Siebert, *Undergraduate Research: Is it Really Worth It?* 92-94.
- Vol. 18 #3 December 1988. Willam Frase, *Bart and Miss Tiggiewinkl,e* 159.
- Vol. 18 #4 February 1989. William Frase, *Promoting Professional Pedagogical Interaction*, 272.
- Vol. 18 #5 March April 1989. William Frase, *Parting Reflections*, 298-301.
- Vol. 18 #6 May 1989. Ted Lopushinsky *New Horizons*240-241.
- Vol. 18 #6 May 1989. Caprio, W. McIntosh, & H..Koritz, *Science Education for the Nonmajor* 242-243.
- Vol. 19 #1 September 1989. Ted Lopushinsky, *Our Membership Numbers: Taking a Positive Outlook*, 11.

Vol. 19 #2 November 1989. Ted Lopushinsky, *SCST: one of six NSTA Affiliates*, 112-13.

Vol. 19 #3 Dec. 1989. Ted Lopushinsky, *SCST & Kendall Hunt: Possible Constructive Symbiosis* 148-49

Vol. 19 #4 February 1990. Eleanor Siebert, *The Minigrant Fund*, 253..

Vol. 19 #5 March 1990. Ted Lopushinsky, *Decennial Celebration* 310-311.

Vol. 19 #6 May 1990. Ted Lopushinsky, *A Need to Focus on Research about Teaching* 392-390

Vol. 20 #1 September 1990. Ted Lopushinsky, *The Second Decade* 13.

Vol. 20 #2 Nov. 1990. Ted Lopushinsky, *Teaching Science, Is the Lab Necessary? Some Say No.* 112-113.

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Vol. 39 #2 November 2009. Connie Russell, "It Sais I have a D how that be" 84-86.

Appendix III

PAST & PRESENT OFFICERS OF THE SOCIETY OF COLLEGE SCIENCE TEACHERS

PRESIDENT

Peter Fenner 1980-81
Marvin Druger 1981-82
Charles Estee 1982-83
Robert Menefee 1983-84
Sterling Smith 1984-85
Marjorie Gardner 1985-86
Robert D. Allen 1986-87
William M. Frase 1987-89
Theodore Lopushinsky 1989-91

Eleanor D. Siebert 1991-93
Rebecca A. Halyard 1993-95
William J. McIntosh 1995-97
Michael P. Donovan 1997-99
Brooke M. Pridmore 1999-01
Marvin Druger 2001-03
Linda Crow 2003-05
Donald French 2005-07
Thomas Lord 2007-09
Connie Russell 2009-11

SECRETARY- TREASURER

Sterling Smith 1981-83
William M. Frase 1983-86
Eleanor D. Siebert 1986-89
Michael Donovan 1989-95
Eileen Gregory 1995-98

Mario Caprio 1998-01
John Pratte 2001-02
Walter Smith 2002-06
Randy Moore 2006-08
Kerry Cheesman 2008-11
Linda L. Tichenor 2011-2017
Lynn Deiner 2017-present

MEMBERSHIP CHAIR

William M. Frase 1981-83
Ted Lopushinsky 1983-88
Brooke M. Pridmore 1988-96
Brian Shmaefsky 1996-98
Michael Collins 1999-02
Thomas Lord 2003-05
Connie Russell 2005-07
Kerry Cheesman 2007-08
K.Sorensen & J.Waldvogel 2008-09
Kathy Sorensen 2009-11
Paul Dolan interim 2011, 2012-2016
Elizabeth Morgan interim 2016, 2017-present

NEWSLETTER EDITOR

Phil Mathais 1982-84
Eleanor Siebert 1984-85
Karen Johnston 1985-87
Maura Flannery 1987-93
Nathan Dubowsky 1993-95
Michael H. Farmer 1995-01
Margaret Voss 1991-04
Catherine Gardner 2004-06
Julie Harless 2006-07
Moria Harmon 2007-10
Zane Laws 2010-12

WEBMASTER

John Taylor 2004-2009
Nick Roster 2010-present

HISTORIAN

Ted Lopushinsky 1991-2009
Marvin Druger 2009 – present

COUNCILOR-AT-LARGE (Alphabetical)

Allen, Robert 1980-83
Azima, Alex 2007-08
Caprio, Mario 1996-98
Cheesman, Kerry 2003-06
Crow, Linda 1988-90
Dolan, Paul 2010-12
Donovan, Michael 1987-89
Dubowsky, Nathan 1990-92
Dujari, Anuradha 1999-03
Eason, Grace 2005-07
Gardner, Francis 2002-06
Gelderloos, Orin 1983-86
Gipson, Michael 1991-93
Grandison, Kathryn 2000-04
Gregory, Eileen 1993-95
Haakonsen, Harry 1994-95
Hartman, Elliott 1992-94
Halyard, Rebecca 1985-88
Hays, Rita 1989-91
Heady, Judith 1996-02
Hoots, Rita 1993-95
Jenson, Murray 2007-09
Koritz, Helen 1988-90
Kro1, Edwin 1989-91
Lord, Thomas 1998-02
Lumsden, Ann 1997-99
Lyda, Carri 1996-99
MacDougall, James 1999-01
McIntosh, William 1991-93
McKone, Harry 1995-97
Moore, Randy 2003-06
Payson, Ronald 1987-89
Riggs, Julia 1980-82
Russell, Connie 2001-05
Sajwan, Ken 2008-09
Sandler, Claire 2009-11
Shmaefsky, Brain 1995-96
Siebert, Eleanor 1983-85
Slater, Tim 2006- 07

Sorensen, Kathy	2007-09
Suaro, Angela	1994-96
Tichenor, Linda L.	2009-11
Truchan, Leona	1990-94
Waldvogel, Jerry	2006-10
Ward, Charles	1986-88
Wood, Bonnie	2010-12

COUNCILOR-AT-LARGE (Years of Service)

1980-83	Allen, Robert
1980-82	Riggs, Julia
1983-86	Gelderloos, Orin
1983-85	Siebert, Eleanor
1985-88	Halyard, Rebecca
1986-88	Ward, Charles
1987-89	Payson, Ronald
1987-89	Donovan, Michael
1988-90	Crow, Linda
1988-90	Koritz, Helen
1989-91	Kro1, Edwin
1989-91	Hays, Rita
1990-92	Dubowsky, Nathan
1990-94	Truchan, Leona
1991-93	Gipson, Michael
1991-93	McIntosh, William
1992-94	Hartman, Elliott
1993-95	Gregory, Eileen
1993-95	Hoots, Rita
1994-95	Haakonsen, Harry
1994-96	Suaro, Angela
1995-96	Shmaefsky, Brain
1995-97	McKone, Harry
1996-99	Lyda, Carri
1996-98	Caprio, Mario
1996-02	Heady, Judith
1997-99	Lumsden, Ann
1998-02	Lord, Thomas
1999-01	MacDougall, James
1999-03	Dujari, Anuradha
2000-04	Grandison, Kathryn
2001-05	Russell, Connie
2002-06	Gardner, Francis
2003-06	Moore, Randy
2003-08	Cheesman, Kerry
2005-07	Eason, Grace
2006-07	Slater, Tim
2006-10	Waldvogel, Jerry
2007-08	Azima, Alex

2007-09	Sorensen, Kathy
2007-09	Jenson, Murray
2008-09	Sajwan, Ken
2009-11	Sandler, Claire
2009-11	Tichenor, Linda
2010-12	Wood, Bonnie
2010-12	Dolan, Paul

Appendix IV

INCORPORATION/AFFILIATIONS/COOPERATIVE ARRANGEMENTS

A. Incorporation: SCST was incorporated in the State of Texas on December 1, 1980. In 1995, papers were also filed in the State of Florida (to expedite opening of bank accounts, etc) and in 2008 incorporation papers were filed with the State of Pennsylvania to secure the Society's tax-exempt status.

B. Affiliation: SCST was established as a Type II division affiliate of the National Science Teachers Association on March 20, 1980. The Affiliation was dissolved by NSTA in 2007 (Saint Louis) and the Society was joined with the other NSTA affiliates (CSSS, ASTE, CESI, AMSE, NMLSTA, NSELA, NARST) to become the Alliance of Affiliates of the National Science Teachers Association. . A copy of the Affiliation Agreement is found in Appendix I.

C. International Council of Association of Science Education: SCST became a supporting member of the International Council of Associations of Science Education in the spring of 1988. This membership was dropped in 1995 (Philadelphia).

D. Association for the Advancement of Science: SCST became affiliated with the Association for the Advancement of Science, Section Q (Education) in spring 1991 (3/28/91, Houston). An SCST member who is also an AAAS member represents SCST at the annual meeting of Section Q.

E. Membership in State Academy of Science

Member - Pennsylvania Academy of Sciences (1996)

F. Council of Presidents It was moved and seconded that SCST join the Council of Scientific Societies Presidents – CSSP (Passed 4/5/84). The motion was not acted on until 1992 when the Executive Board directed the President to obtain information on the CSSP in April, 1992 (Boston). A decision was made NOT to affiliate with CSSP in Kansas City (1993).

G. State Science Teachers Associations: SCST is recognized as a member of two state groups:

Member - Florida State Science Teachers Association (1992, Betty Hays) (no record of this being an active member - 2008)

Member - Michigan State Science Teachers Association (1991, Ted Lopushinsky; 1992, Ed Krol) (no record of his being an active member – 2008)

H. Local Membership Support

It was proposed that SCST assume financial support (\$50 per coordinator/\$200 membership committee maximum) of local membership activities and moved that the Society, assuming such a financial commitment, be reviewed at the New Orleans Executive Board meeting. Passed (4/18/85, Cincinnati) - (Minutes of the Cincinnati meeting not located --- it is assumed that the proposals passage at this time).

I. Coordinator Information

Information is provided to the member coordinators by the national membership chair (pre 1992) (post 1992 - the National Membership Chairperson). This information includes names of local members and other information as required by the coordinator.

J. Membership Committee

The membership Committee is composed of local coordinators and interested members directed to serve by the President. The charge of this Committee is to foster interest in the Society, recruit new Members and nominate Honorary Members. It is chaired by the membership chair.

K. Membership Chairperson

The Membership Chairperson (hereafter: The National Membership Chairperson) became an elected office (three-year term) and member of the Executive Board by Constitutional amendment, approved by the SCST membership in spring 1992. *See Membership for additional policies.*

L. SCST Committees

By 1970, SCST has established seven active committees: Advanced Undergraduate Course Committee, High School/College Articulation Committee, Introductory Course Committee, Science and Technology Committee, Liaison Committee, Membership Committee, and the Resources and Development Committee. By 1995 all but two, the Introductory Course Committee and the Membership Committee had disbanded. The Introductory Course Committee was retired in 1970 while the Membership Committee remains in ad hoc status formed at the discretion of the Membership Chairman.

A. The Introductory Course Committee was active from 1970 to 2003. The committee regularly presented panel discussions at one of the annual meeting program sessions, prepared a monograph (*Successful Approaches to Teaching Introductory Science Courses*), and prepared a Position Statement on Introductory Courses. Committee was chaired by Nat Dubowsky.

B. The Role of Quality Teaching in Tenure and Promotion: The committee reviews ideas and statements (i.e.: What is the role of inquiry in teaching?) to determine how they align with the role of quality teaching in tenure and promotion. Currently chaired by Ann Parsons.

C. Graduate Student Membership in SCST: This group encourages students in science to join SCST at a special rate. The group meets during the national conference for professional presentations, posters and social activities. Currently chaired by Terran Shaw.

D. Promoting Research in Teaching in SCST: The committee reviews how the current views of research in teaching relate to the Societies mission and recommends changes when appropriate. Currently chaired by Grace Eason

E. Instructional Linkage and Concerns: The charge of this committee is to keep the membership informed of new and potentially successful innovations in college science teaching. Committee is presently inactive - approved by the board on 2007 (St Louis) but no chairman was appointed

At the 2001 fall meeting the Executive Board voted to try having two electronic issues and one print issue of SCST News and Views. This is to try and reduce cost while providing faster delivery of the newsletter. The membership's reaction to this trial should be monitored over the next two years. After several years, the trial was deemed a success and the News and Views became an entirely electronic newsletter. The newsletter went to 4 issues a year and changed its name from News and Views to The SCST Quarterly.

COLLEGE RESEARCH on the TEACHING of SCIENCE

This journal will focus on pedagogical research in science at the post secondary level. It is envisioned initially as a biannual, web-based journal with the expectation of becoming a quarterly and eventually a bimonthly journal similar to, and alternating monthly with, the Journal for College Science Teachers. Jennifer Wilhelm has agreed to be the editor and Kerry Cheesman and Jerry Waldvogel have agreed to be the assistant editors.

REGIONAL SECTIONS OF THE SCST

Northeastern Regional Section (NERS)

approved by Board, Ted Lopushinsky, 1990

NERS Guidelines

1. The NERS be allocated 20% of the SCST portion of dues of members residing in the section for each of the next two years (1991, 92), with the NERS request renewable every two years.
2. The census date to establish the number of SCST members residing in NERS be the end of the first quarter of each year.
3. Annual allocation of funds is to be transferred directly to the secretary-treasurer of NERS using a calendar year beginning on July 1. This allocation shall be contingent upon receipt by the secretary- treasurer of SCST of an accounting of the previous year's expenditures.
4. Funds allocated to NERS will continue to be used as in the past for: publication and mailing costs of Gnathos (the regional newsletter); expenses associated with NERS

sponsorship of the SCST component within any NSTA regional meeting held within the NERS territory; expenses associated with HERS elections and business.

5. An annual report of NERS activities will be made at the spring meeting of the Executive Board at the national convention and at the annual business meeting of SCST.

NERS became inactive in the late 1993

No other SCST Regional Sections have requested to be established

Appendix V

PAST RECIPIENTS OF MININGRANT AWARDS

Eleanor D. Siebert 1986, 87
Eric Kincannon 1989
Tom Lord 1990
Terry Hufford 1993
Gay B. Stewart 1995

Pamela Rhyne and Francis Gardner 1994
Tom Lord 1994
Gay B. Stewart 1995
Claire Sandler 2006
Kerry Cheesman 2009
Nancy Elwess, 2010

FORMER OUSTA AWARD WINNERS

1994 Larry Davis	Washington State University	2002 Jerry Waldvogel	Clemson University
1995 Diane Bunce	Catholic Univ. of America	2003	No winner
1996 Doug Schamel	University of Alaska	2004 Brian Coppola	University of Michigan
1997 Jon Hendrix	Ball State University	2005 Claire Cronmiller	University of Virginia
1998 Judith Miller	Worcester Polytechnic	2006 Ken Sajwan	Savannah State University
1999 Philip Mathis	Middle Tennessee State Univ.	2007 Murray Jensen	Missouri State University
2000 Donald French	Oklahoma State University	2008 Nancy Elwess	Plattsburgh State University
2001 Eleanor Siebert	Mount St Marys College	2009 Dee Silverthorn	Univ. of Texas at Austin
		2010 Robert Beichner	North Carolina State University
		2011 Melanie Cooper,	
		2012 Kimberly Tanner,	San Francisco State University

About Marjorie Gardner: Marjorie Hyer Gardner (1923-1991) was the director of the Lawrence Hall of Science of the University of California between 1984 and 1989. She obtained her B.S. in political science from Utah State University in 1947, an MA in science education and chemistry from Ohio State in 1958, and two Ph.D.s, one in chemistry education from Ohio State in 1960 and a second one from the Institute of Education Management at Harvard in 1976. She devoted her life to education beginning as a high school teacher at North Cache High School (Richmond, UT) and later in Las Vegas High School (Las Vegas, NE) and East High School (Columbus, OH). In 1958 she took a university position in Chemistry and Science Education at Ohio State, then on to University of Maryland (1964-84) in Chemistry and Science Education, and finally as Director of the Lawrence Hall of Science (1984-89) and a Research Professor of Chemistry at Utah State University (1989-91). She was known internationally holding visiting Fulbright Professorships in India, Australia and Nigeria (1983-83). She also served as a UNESCO consultant in Science Education to Thailand, Qatar and the People's Republic of China. She held office in the American Chemical Society, The National Science Teachers Association

and the International Union of Pure and Applied Chemistry and was recognized for her contribution to science education with NSTA highest honor, the Robert H. Carleton Award for National Leadership in Science Education in 1974. Marjorie Gardner passed away of complications from diabetes at the age of 67 in Salt Lake City.

Appendix VI

MONOGRAPHS WHICH HAVE BEEN PUBLISHED

- *Innovations in College Science Teaching*, Editor: John Dunkhase and John Penick, 1988.
- *Enhancing Critical Thinking in College Science*, Editor: Linda Crow, 1989
- *Successful Approaches to Teaching Introductory College Science*, Editors: Mario Caprio & William MacIntosh, 1992.
- *Science Discoveries and Science Teaching: The Link*, Editors: Eleanor Siebert and Charles Estee, 1994.
- *From Traditional Approaches Toward Innovation*, Editor: Mario Caprio, 1997.
- *College Science Teacher's Guide to Assessment*, Tom Lord, Don French, Linda Crow 2009.

MONOGRAPHS APPROVED FOR PUBLICATION

- 2009 *Technology in the College Science Classroom*
- 2010 *The Inquiry Lab in the 21st Century*
- 2011 *Engaging and Motivating the College Science Student*
- 2012 *Formative Assessment for the College Science Classroom*
- 2013 *Promoting Social Constructivism: Collaboration, Cooperation, Teams and Peer Instruction*

PUBLICATIONS OR CHAPTER CONTRIBUTIONS OF SCST

Newsletter – News and Views - Three times yearly

Phil Mathais	1982-84
Eleanor Siebert	1984-85
Karen Johnston	1985-87
Maura Flannery	1987-93
Nathan Dubowsky	1993-95
Michael H. Farmer	1995-01
Margaret Voss	1991-04
Catherine Gardner	2004-06
Julie Harless	2006-07

Newsletter – SCST Quarterly – Four times yearly

Moria Harmon	2007-09
Zane Laws	2009-12

Programs and Abstracts - SCST Conference Presentation – Yearly

T. Lopushinsky & M. Donovan, Editor (1988 -1992)
E. Siebert, & M. Donovan, Editor (1993)
R. Halyard & M. Donovan, Editor (1994-1995)
W. McIntire & Michael Donovan, Editor (1996)

J. Heady, Editor (1997-1998)
M. Donovan, Editor (1999 -2007)
C. Russell, Editor (2008- 2009)
B. Shmaefsky, Editor (2010-2011)
N. Elwess, Editor (2011-2012)

Symposia that have been conducted

- *Dangerous Microbes in the 21st Century! Pandemics, Emerging Diseases, and the Threat of Bioterrorism: Implications for Teaching* - 2008 NSTA Conference, Boston MA
- *The Future of Quality Water in the 21st Century* – 2010 NSTA Conference, Philadelphia, PA

Position statements that have been published

- *Introductory Courses* - published in *Journal of College Science Teaching* Vol 13 (1) (1993) ...pp31.
- *The Scholarship of College Science Teaching* – Adopted by the Executive Board on April 1998 with recommendations....In JCST. Vol. 18 (1) (1998) ... pp 68.
- *Systemic Reform and the College Science Educator*, Publish in *Journal of College Science Teaching* Vol. 23 # 5 March (1994) pp 265-266.
- *Science Faculty's Role in Delivering Quality Education* – Proposed to the Executive Board by the Role of Quality Teaching in Tenure & Promotion Committee in 2005...Not yet published.
- *The Teaching of Evolution in Public Schools* - published in the *McGill Journal of Education* Vol. 42 (2) 2007.
- *Position Statement on the Teaching of Evolution in C Sager (Ed) Voices of Evolution, National Center for Science Education Inc Berkley, CA. pp. 174.*
- *Science Faculty's Role in Delivering Quality Education*, Adopted by the Executive Board in March 2008. not published as of March 2009.

Books

- *Methods of Effective Teaching and Course Management for Univeristy and College Science Teachers*, Editors E. Siebert, M. Caprio, C. Lyda, Kendell Hunt, 1997.
- *Innovative Techniques for Large-Group Instruction*, Editors: C. Reinburg, J. Culick, C. Duval, B. Smith, NSTA Press 2002.
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Articles in JCST Column

For nearly 30 years *The Journal of College Science Teaching* has provided SCST with a means of communicating with college science professors in and outside the Society. Running 1 to 4 pages in length, the SCST Column describes initiatives, viewpoints, and topics pertinent to teaching in higher education. A listing of the titles of most of the articles written by SCST members that appeared in the column from 1981 to 2009 are shown in Appendix II

