

NATIONAL ASSOCIATION FOR
RESEARCH IN SCIENCE
TEACHING

EXECUTIVE BOARD
SPRING MEETING

March 28, 1986

San Francisco, CA

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

Spring Meeting, Executive Board
San Francisco, CA

March 28, 1986

PROPOSED AGENDA

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1985 Fall Meeting of the
National Association for Research in Science Teaching
New Orleans, Louisiana
December 12, 1985

MINUTES

A. Opening Remarks by the President

The 1985 fall meeting of the National Association for Research in Science Teaching was held at the Hyatt Regency, New Orleans, Louisiana. Dr. David Butts welcomed everybody to the meeting.

B. Board Members in Attendance

Dr. Glen Aikenhead	Dr. Marcia Linn
Dr. James Barufaldi	Dr. Michael Padilla
Dr. Patricia Blosser	Dr. Gerald Skoog
Dr. David Butts	Dr. John Staver
Dr. Rodney Doran	Dr. Ertle Thompson
Dr. William Holliday	Dr. Russell Yeany

Others in Attendance

Dr. Glenn Markle

C. New Executive Secretary

Dave Butts reported that Glenn Markle was the unanimous recommendation of the Search Committee and that individual Board members had approved their recommendation by phone.

Motion: Moved that Dr. Glenn Markle be appointed Executive Secretary of the National Association for Research in Science Teaching for the term January 1, 1986 through December 31, 1990. Yeany, Staver.
Motion carried unanimously.

D. Approval of Minutes Describing the 1985 Spring Meeting of the Board

Motion: Moved that the minutes for the 1985 spring board meeting be corrected to show that Dr. Glen Aikenhead was in attendance and that the minutes be approved with this correction. Doran, Holliday. Motion carried.

Dave Butts pointed out that there were no minutes of the unofficial meeting of the Board held in his suite at 9:15 p.m., Wednesday, April 17, 1985 and asked how

this should be handled. The Board agreed to attach Dr. Butts' notes of the meeting as an appendix to the minutes.

E. Approval of Agenda

Motion: Moved that the agenda for the fall meeting be approved. Blosser, Staver. Carried.

F. Report of the Financial Advisory Committee

Marcia Linn reporting on the work of the Financial Advisory Committee pointed out the difficulty she encountered communicating with committee members. Some committee members were not active NARST members and Marcia expressed her belief that active members are needed to serve on this committee. It was suggested that committee chairs be given up-to-date office and home phone numbers for memebbers of their committees.

Marcia reported on three issues addressed by her committee during the past year: raising annual membership dues; reimbursing members of the board for expenses related to attending spring board meetings; and increasing the registration fee at the annual meeting.

1. Raising Annual Dues

The members of the Financial Advisory Committee were not unanimous in their recommendation to the Board. She believed their reluctance was due to committee members not having information on the budget and concern about the effect of increased dues on the membership in the association. Nevertheless, the majority of the Committee voted to recommended a dues increase.

Motion: Moved to raise the annual NARST dues for regular members from \$44.00 to \$48.00 per year. Linn, Aikenhead.

Holliday pointed out that the last dues increase was in 1982 and that, if approved, this increase would take effect January 1, 1987. Aikenhead made the point that dues for 1987 need to take into account the expenses that will be incurred in 1987 and after and asked if a five dollar increase is enough.

The question was called and the motion carried unanimously.

2. Spring Board Meeting Expenses

Motion: Moved that Board members be reimbursed for expenses incurred as a result of attending the Spring board meeting to a maximum of \$500.00. Linn, Holliday.

Yeany noted that the expenses of the JRST editor and the executive secretary for attending the spring meeting are already paid by the Association.

It was noted that in the past the spring meeting of the Board has not usually been productive because of everything else going on at the annual meeting. Reimbursements for fall meeting expenses were approved because it is the "working meeting" of the board and usually held in conjunction with an NSTA regional meeting which is an additional meeting for many Board members. The spring meeting, on the other hand, is held at the same time as the annual NARST meeting in conjunction with the annual meeting of NSTA or AERA and most Board members would be attending the spring conference.

The question was called and the Board voted not to reimburse expenses of Board members for Spring meetings. The journal editor and executive secretary will continue to have their expenses paid by the Association.

Ertle Thompson suggested reimbursing Board members for one day's expenses to stay one extra day for a working executive board meeting. No motion was made and this idea was abandoned.

3. Increasing Annual Meeting Registration Fees

Motion: Moved to increase registration fee for 1987 annual meeting in Washington, D.C. by \$5.00 for all categories of registrants. Linn, Padilla.

Discussion centered on the breakdown of the registration fee and whether it included the awards luncheon. Ertle Thompson pointed out that the Board had voted several years ago to include the luncheon costs in the registration fee and that the fee currently represented two parts: the fees to support the cost of the meeting and the fees to support the cost of the luncheon. Since the cost of the luncheon will vary from year to year, how can a set registration fee be

established? Bill Holliday noted that the "basic" registration fee varied by category (regular member, non-member, spouse, and student) and by time of registration (preregistered or on-site registration) and asked if all categories were to be increased by the same amount. Marcia Linn responded that the five dollar increase was an increase in the "basic" registration fee (separate from the luncheon cost) and that it was to be added to each category of registrants.

Motion: Moved to ammend the motion on the floor to exclud students from the proposed increase in the annual meeting registration fee. Yeany, Doran.

The question was called on the motion to ammend. The vote was five to four with one abstention in favor of not excluding students from the fee increase.

The question was called on the original motion to increase registration fees. Motion carried unanimously.

G. Budget for 1986

Motion: Moved that the Board accept the budget as presented in the agenda. Aikenhead and Doran.

The proposed budget was discussed line-by-line and several changes were adopted. The anticipated receipts for the 1986 budget year are \$85,940.00 plus \$9,100.00 brought forward from last year (at total of \$95,040.00) and proposed disbursements total \$90,075.00. These figures include non-cash contributions from the University of Georgia to support the Journal Editor (\$20,000.00) and from the University of Cincinnati to support the Executive Secretary (\$20,500.00). Changes in the proposed disbursements included increasing the number of journals for which we need to pay Wiley Publishers, adding two training sessions at \$200.00 each to the annual meeting expenses, eliminating the proposed expenditure to support board members' travel expenses to the spring meeting, adding ICASE dues, and adding expenses related to publishing Research Matters.

Motion: Ammend the proposed budget to add ICASE membership of sixty-dollars (\$60.00) to the budget for 1986. Yeany and Thompson

Motion carried unanimously.

Discussion of the Triangle Collation as a budget item. Formation of local aliances between and among schools, businesses, and professinal educational organizations is the major focus of this organization. Dave Butts and Bob Howe have attended meeting of the Collation. Gerald Skoog described the group as a group looking for a cause. The membership is a powerful group with potential for impacting on science education. John Fowler runs the Collation's meetings but no center of leadership has developed at this point in time. Dave Butts expressed the same concern. The benefits of membership include a newsletter and other exchanges of information plus the opportunity to take part in meetings of the collation. NARST could exert influence in ths Collation if we had an agenda; we need a goal for being a member.

The proposed budget as modified is attached to these minutes.

Motion: Moved that the original motion to accept the budget be changed to adopt the budget as modified. Aikenhead and Doran.

The question was called and the budget was adopted.

H. Financial Advisory Committee

Five charges to the Financial Advisory Committee were reviewed:

- 1. Review of budget process.
- 2. Budget construction/priorities.
- 3. Fee structure for members.
- 4. Budget review.
- 5. Proposed budget.

The Board agreed that the proposed budget for the following year would be submitted to the Financial Advisory Committee by October 1 and that the Financial Advisory Committee would review the proposed budget and make recommendations to the Board at the Fall meeting.

Motion: Moved that at least one member of the Financial Advisory Committee be a past president. Linn and Staver. Motion carried.

I. Publications Advisory Committee

Glen Aikenhead reported on the activities of the Publications Advisory Committee. Three topics were discussed: the Newsletter, the Journal, and Special Publications.

1. Newsletter

Motion: Moved that there be a Newsletter Editor for a two-year renewable term and that the editor be responsible for informative columns that give the Newsletter more vitality and make it a richer source of information. Motion approved unanimously.

Motion: Moved that a search committee be appointed and proposals requested from candidates for the position. The search committee will specify required parts of the newsletter with some flexibility for the editor. Linn and Staver.

Motion: Moved a friendly ammendment that the following serve as a guide for the proposed newsletter editor search committee:

- A. A Newsletter Editor be appointed by the Board (a 2 year renewal term). He or she would be responsible for information and columns (short pieces by NARST members) that would give the Newsletter more vitality by being a more valuable and richer information source. The ultimate control and responsibility for putting out the Newsletter would remain with the Executive Secretary. Recognizing that the vitality of the Newsletter positively affects the retention of members in NARST, the expenditure of funds may be considered an investment in membership. Moreover, because the quality of work by the Editor will be critical to NARST, NARST must facilitate and support the negotiations between the Editor and his/her institution so that appropriate released time (e.g., a 3 credit teaching equivalent) be given to the Editor. By advertising the position and appointing an Editor in a manner not unlike the JRST Editor, the Newsletter Editor's job will acquire a status needed to ensure a high quality commitment with institutional support.

- B. The Newsletter print short summaries of conferences attended by a NARST member (written by an attending member) in order to keep other NARST members abreast of current developments. The responsibility to encourage submissions belongs to the the Newsletter Editor, the Board, and the Publications Advisory Committee. See, for example, the September issue containing a summary of the Brisbane International Symposium on World trends in Science Education. Jim Gallagher's

description of the Panama science education conference held at the same time will appear in the next Newsletter.

- C. The Newsletter serve as a bulletin board to facilitate collaborative research, particularly international collaboration. NARST members could invite collaboration by stating the nature of collaboration sought. Also, NARST members could print a message indicating their willingness to collaborate with other researchers, indicating areas of interest and expertise.
- D. The Newsletter print the titles (table of contents or selections thereof) of non-American publications related to research in science teaching; e.g., European Journal of Science Education, Studies in Science Education, and the Australian journal.
- E. The Newsletter serve as the medium for NARST committees to elicit feedback on issues under discussion. A tear-off page in the Newsiteer would act as a survey of NARST members. The results of such surveys could be published in the next issue.
- F. The Newsletter NOT print columns written by Board members because such comumns would have far greater impact if they appeared in science teachers' journals or science education research journals. One exception would be news from Washington on research funding.
- G. The Newsletter print job placement information in light of the recent increase in the job market activity.

The friendly ammendment and the motion were approved unanimously.

2. Journal for Research in Science Teaching

Motion: Moved that the new Executive Scretetary explore publishing arrangements alternate to the present Wiley arrangements, in order that the Executive Secretary be in an advantageous position from which to renegotiate with Wiley in 1987. This exploration should be a priority for the Executive Secretary in early 1986. Aikenhead and Linn.

After discussion, the original motion was withdrawn and alternative proposed.

Moved that a committee consisting of the President, Executive Secretary and the chair of the publication committee with the JRST editor as an exofficio member explore publishing arrangements alternate to the present Wiley arrangements, in order that the Board be in an advantageous position from which to renegotiate with Wiley. Doran and Padilla.

The alternative proposal was approved unanimously.

3. Special Publications

Motion: Moved the appointment of a NARST Research Column Editor (a two year renewable term), who will be responsible for all research columns written under the NARST name.

- A. The Editor will be responsible to the Executive Board.
- B. The Editor will, with the approval of the Board, set guidelines and procedural mechanisms to follow, and enter into agreements with journal editors (e.g., Lester Paldy).
- C. The Editor will develop a network of potential contributors (within and outside NARST) with the help of the NARST Executive Board.
- D. The Editor will be prepared to educate researchers on how to write for practitioners; for instance, by returning manuscripts three or four times with specific requests for changes.
- E. NARST will facilitate and support the negotiations between the Editor and his/her institution, in order to ensure the institution's recognition and support of this scholarly work.

Moved by Aikenhead and seconded by Holliday. Motion carried unanimously.

The Research Coordinator was appointed as current Research Column Editor. A new Research Coordinator is due to be named within three months. The new Research Coordinator will contact Lester Paldy at that time.

Motion: Moved that NARST publish a membership directory every three years and that the directory include members' names, addresses, and phone numbers. Also that the dues invoice be changed to serve as a release

form for including members' information in the directory. Aikenhead and Linn.

Motion carried.

Motion: Moved that, provided the cost estimates are reasonable, the NARST give its full support to the publication of the NARST Handbook of Research in Science Education as outlined in Dr. Yore's October 22 correspondence. Aikenhead and Linn.

After discussion, the motion was voted down.

The sense of the discussion was that steps in the proposed timeline have not yet been taken. Concern was expressed that NARST may have "strung" Dr. Yore along. The idea seems good and the Board supports it, but the outline described was judged too broad, vague, and disjointed. Questions about the substance of the proposal were posed. Also, no cost estimates were included with the proposal.

Also, section editors have not met. No "big picture" has been generated. Section editors have agreed to be involved but have not generated the material.

Who will be responsible for paying for this publication? Negotiated with a publisher? NARST does not fund this sort of publication but may endorse the publication and later collect some royalty for endorsing it.

All of the above were concerns expressed by during the discussion by the Board. It was suggested that Larry be advised to work with section editors to develop a clear rationale, a description of the intended audience, content, etc. A clear prospectus is needed.

Aikenhead suggested that Butts send Yore a letter recommending that he beem with section editors in San Francisco to prepare a more clear recommendation to the Board. The letter should communicate the Board's serious concerns about the viability of this project.

J. Policy Advisory Committee

Ertle Thompson reported on the activities of the Policy Advisory Committee. Topics discussed were committee time/task expectations, committee chairpersons, and proposed by-law changes affecting voting rights of ex-officio committee members, formation of an Executive

Committee, NARST operating policy, and NARST committee structure review.

1. Committee Time/Task Expectations

Motion: Moved that individual committee calanders be reviewed, revised, and updated before the annual meeting so that the new revised calander updates proposed for 1986-87 may be acted on by the Board and published in the newsletter immediately following the spring board meeting. Thompson and Blosser.

Motion carried.

2. Committee Chairpersons

Motion: Moved that chairpersons of standing committees should be Board members or recent Board members.

The rationale for permitting recent Board members to serve as chairs of standing committees because the present policy requires participation of Board members on too many committees and is extremely difficult to conform to because of the three-year staggered terms of most committee appointments

(WHAT HAPPENED TO THIS MOTION? G.C.M., 12/85)

3. By-Law Changes

Motion: Moved that NARST amend Article III Section 3.02-B--VOTES-- to read as follows: Ex officio members of the Executive Board and all other committees have the same voting rights as other members.

Moved that NARST amend Article VI Section 6.04 to reas as follows: The members of the program committtee include the President-Elect as chairperson, six members (with two year rotating terms), the Research Coordinator (ex-officio), and the Executive Secretary (ex-officio).

Moved that the membership vote on a by-law change approved by the board in April, 1981 but not submitted to the membership as called for in the by-laws, to whit that Article III Section 3.4 VACANCIES read, "In the event that the office of the President-Elect is vacated, the Executive Board shall appoint a member of the Board to fill the unexpired term and the office shall be filled for the following year by elections. (The President shall then serve two years."

Moved that a new section, 6.07, Awards Steering Committee be inserted int the by-laws. The members of the steering committee would include the chairperson and six members (with three year rotating

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terms), plus executive secretary (ex-officio). The responsibilities include recommending policy for establishment of awards for the Association including the nature of the awards, the criteria for the awards, and the award's selection process. Additional subcommittee members may be appointed on a two-year rotating basis as needed for review/selection process.

By-law changes moved by Thompson and seconded by Aikenhead.

Motion approved unanimously.

By-Law changes must be approved by the membership. The proposed changes should be distributed to the membership with the February newsletter.

Motion: Moved that complementary rooms at the convention be prioritized in rank-order: the President, President Elect, Past President, and if available, the new President Elect. The Association will continue to pay the spring meeting expenses of the Journal Editor and the Executive Secretary. Thompson and Blosser.

Motion carried unanimously.

Motion: Moved that the Board annually establish an allowance to cover reasonable expenses (meals and incidentals) for the Journal Editor, Executive Secretary, the President and the President Elect for the number of days of the annual convention and establish similar reasonable expenses for Board members attending the fall meeting. Linn and Thompson.

Motion carried.

Motion: Moved that \$40.00 per day in addition to room rate be defined as "reasonable" for the San Francisco meeting. Linn and Thompson.

Motion carried.

The Policy Advisory committee recommended that the idea of forming an Executive Committee to act in the interim between annual Board meetings be dropped and that the writing of the policy manual be delayed until the Bylaws changes have been acted upon by the membership.

K. Program Committee

Jim Barufaldi reported on the activities of the Program Committee and the schedule of events planned for the San Francisco meeting.

The program committee reported that 164 proposals for presentations at the annual meeting were received. Each proposal was reviewed by three people

Concerns were expressed about the cost of speakers at the annual meeting.

Motion: Moved that revenues and expenses projected for the 1987 meeting in Washington, D.C. be reviewed at the spring meeting of the Board in San Francisco. Holliday and Yeany.

Motion carried.

L. Research Committee

Rodney Doran presented the report of the Research Committee.

Motion: Moved that NARST fund the printing of 500 copies of the 1985 Research Matters and the preparation and printing of 500 copies of new Research Matters for distribution at the San Francisco meeting. Estimated costs for preparation is \$100.00 and copying at 3.5 cents per copy (\$175.00). Doran and Padilla.

Motion carried.

Motion: Moved that the 1984, 1985 and 1986 Research Matters be submitted to the ERIC/SMEAC system after screening by the Research Committee. Aikenhead and Padilla.

Motion carried.

M. Elections Committee

Ertle Thompson presented the report of the Election Committee.

N. Awards Committee

Mike Padilla presented the report of the Awards Committee.

Motion: Moved that any member of the NARST awards committee be precluded from submitted their paper for consideration. Blosser and Doran.

Motion carried.

Motion: Moved that any member of the JRST awards committee in round one of judging either withdraw their article(s) or resign from the committee for this year.

(WHO MADE THIS MOTION AND WHAT HAPPENED TO IT? G.C.M.)

O. Ad Hoc Committee on Internatinal Issues

Pat Blosser presented the report of the committee on international issues.

Marcia Linn recommended that board members encourage science educators to apply for Fulbright grants. Such encouragement should be presented in the Newsletter.

Glen Aikenhead described the recent work of the international organization for science and technology education.

P. Editor of Journal

Russle Yeany presented his report as editor of the Journal.

Motion: Moved the five candidates mentioned in the report of the editor, Russle Yeany, be approved with terms ending in 1989.

(WHO MADE THE MOTION? WHAT HAPPENED TO IT? G.C.M.)

Motion: Moved that NARST cooperate with Wiley in their effort to promote institutional memberships by:

1. endorsing the activity;
2. providing NARST mailing lists;
3. suggesting other mailing lists;
4. participating in the mailings; and
5. suggesting ehancements to improve the effort.

Yeany and Linn.

Motion carried.

Q. Executive Secretary Report

William Holliday presented his report as executive secretary.

Motion: Moved that Dr. William G. Walsh be placed in the status of emeritus and informed of such by mail. Holliday and Padilla.

Motion carried.

Motion: Moved that NARST meet after AERA in 1987, April 24-27, 1987. Holliday and Linn.

Motion carried.

R. President's Report

David Butts presented the president's report.

Motion: Moved that all reports submitted for the present meeting be accepted. Doran and Padilla.

Motion carried.

S. Resolution

Whereas; Bill Holliday has served as Executive Secretary of the NARST 1981-1985, and

Whereas; Bill Holliday has elevated the professional status of such position within the Association, and

Whereas; Bill Holliday's leadership has contributed to enhancement of the NARST nationally and internationally,

Be It Resolved; That the Executive Board of the NARST commend Bill Holliday for his excellent leadership and express, on behalf of the NARST, our sincere appreciation to Bill Holliday for his didicated service and many professional and personal contributions to the routine operations, growth, and improvement of the National Association for Research in Science Teaching during his tenure as Executive Secretary, January 1, 1981 to December 31, 1985.

Moved by Thompson, seconded by ?.
Motion carried.

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

PROPOSED BUDGET FOR 1986

RECEIPTS

1. Balance Brought Forward	\$ 9,100.00
2. Membership Dues	
Regular (550 x \$44.00)	24,200.00
Student (70 x \$30.00)	2,100.00
Emeritus (3 x \$30.00)	90.00
3. Annual Meeting	
Preregistration (200 x \$35.00)	7,000.00
Late Registration (25 x \$46.00)	1,150.00
4. Other	
Royalties from Wiley	1,600.00
Contributions from Donors	7,300.00
Contribution from University of Georgia (Journal Editor)	22,000.00**
Contribution from University of Cincinnati (Executive Secretary)	20,500.00***
	\$95,040.00
TOTAL EXPECTED RECEIPTS	\$95,040.00

*\$800.00 from ERIC to support the NSTA-NARST Lecture,
\$6,500.00 from Delta to support NARST Program Speakers

**This is the specific contribution by the University of Georgia in support of the Journal.

***This is the estimated contribution by the host institute in support of the Executive Secretary's office.

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

DISBURSEMENTS

1. Journal of Research in Science Teaching		
Wiley Publishers (600 x \$20.00)		\$12,000.00
Journal Editor		16,000.00
Journal Secretary		6,000.00
Journal Postage/Supplies		1,000.00
2. Annual Meeting		
Programs (1,000 x \$5.00)		5,000.00
Abstracts (650 x \$4.00)		2,600.00
Awards		300.00
Speakers (3 x \$600.00)		1,800.00
Travel/Hotel		790.00
NARST/NSTA Special Lecturer		1,000.00
Supplies		200.00
Training Sessions		400.00
Travel for 1987 Program Site Review		
Pres. Elect/Exec. Sec. x \$500.00		1,000.00
Travel for Editor and Exec. Secretary		1,000.00
3. Officers/Executive Board, Editor and Executive Secretary		
President Elect		700.00
President		1,000.00
Past President		700.00
Executive Board Meetings		
Spring--San Francisco (President & Exec. Sec.)		1,000.00
Fall Meeting (13 x \$400.00)		5,200.00
4. Executive Secretary		
Salary (.33 x \$40,000)		13,000.00
Secretary (.50 x \$15,000)		7,500.00
Supplies/Printing		1,000.00
Postage		1,500.00
Telephone		1,800.00
Miscellaneous		500.00

5. Other	
ICASE	60.00
Triangle Collation	500.00
Testing Monograph	5,000.00
Newsletter	
Research Matters	275.00
Printing and postage for 4 issues	3,000.00
	<hr/>
TOTAL DISBURSEMENTS	\$91,825.00

1985 Fall Meeting of the
National Association for Research in Science Teaching
New Orleans, Louisiana
December 12, 1985

MINUTES

A. Opening Remarks by the President

B. Board Members in Attendance

Dr. Glen Aikenhead	Dr. Marcia Linn
Dr. James Barufaldi	Dr. Michael Padilla
Dr. Patricia Blosser	Dr. Gerald Skoog
Dr. David Butts	Dr. John Staver
Dr. Rodney Doran	Dr. Ertle Thompson
Dr. William Holliday	Dr. Russell Yeany

Others in Attendance

Dr. Glenn Markle

C. New Executive Secretary

Dave Butts reported that Glenn Markle was the unanimous recommendation of the Search Committee and that individual Board members had approved their recommendation by phone.

Motion: Moved that Dr. Glenn Markle be appointed Executive Secretary of the National Association for Research in Science Teaching for the term January 1, 1986 through December 31, 1990. Yeany, Staver.
Motion carried unanimously.

D. Approval of Minutes Describing the 1985 Spring Meeting of the Board

Motion: Moved that the minutes for the 1985 spring board meeting be corrected to show that Dr. Glen Aikenhead was in attendance and that the minutes be approved with this correction. Doran, Holliday. Motion carried.

Dave Butts pointed out that there were no minutes of the unofficial meeting of the Board held in his suite at 9:15 p.m., Wednesday, April 17, 1985 and asked how

this should be handled. The Board agreed to attach Dr. Butts' notes of the meeting as an appendix to the minutes.

E. Approval of Agenda

Motion: Moved that the agenda for the fall meeting be approved. Blosser, Staver. Carried.

F. Report of the Financial Advisory Committee

Marcia Linn reporting on the work of the Financial Advisory Committee pointed out the difficulty she encountered communicating with committee members. Some committee members were not active NARST members and Marcia expressed her belief that active members are needed to serve on this committee. It was suggested that committee chairs be given up-to-date office and home phone numbers for members of their committees.

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Motion: Moved to raise the annual NARST dues for regular members from \$44.00 to \$48.00 per year. Linn, Aikenhead.

The question was called and the motion carried unanimously.

2. Spring Board Meeting Expenses

Motion: Moved that Board members be reimbursed for expenses incurred as a result of attending the Spring board meeting to a maximum of \$500.00. Linn, Holliday.

Yeany noted that the expenses of the JRST editor and the executive secretary for attending the spring meeting are already paid by the Association.

The question was called and the Board voted not to reimburse expenses of Board members for Spring meetings. The journal editor and executive secretary will continue to have their expenses paid by the Association.

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Motion: Moved to increase registration fee for 1987 annual meeting in Washington, D.C. by \$5.00 for all categories of registrants. Linn, Padilla.

Motion: Moved to ammend the motion on the floor to exclude students from the proposed increase in the annual meeting registration fee. Yeany, Doran.

The question was called on the motion to ammend. The vote was five to four with one abstention in favor of not excluding students from the fee increase.

The question was called on the original motion to increase registration fees. Motion carried unanimously.

G. Budget for 1986

David Butts presented the proposed budget for 1986.

Motion: Moved that the Board accept the budget as presented in the agenda. Aikenhead and Doran.

The proposed budget was discussed line-by-line and several changes were adopted. The anticipated receipts for the 1986 budget year are \$85,940.00 plus \$9,100.00 brought forward from last year (at total of \$95,040.00) and proposed disbursements total \$90,075.00. These figures include non-cash contributions from the University of Georgia to support the Journal Editor (\$20,000.00) and from the University of Cincinnati to support the Executive Secretary (\$20,500.00). Changes in the proposed disbursements included increasing the number of journals for which we need to pay Wiley Publishers, adding two training sessions at \$200.00 each to the annual meeting expenses, eliminating the proposed expenditure to support board members' travel expenses to the spring meeting, adding ICASE dues, and adding expenses related to publishing Research Matters.

Motion: Ammend the proposed budget to add ICASE membership of sixty-dollars (\$60.00) to the budget for 1986. Yeany and Thompson

Motion carried unanimously.

The proposed budget as modified is attached to these minutes.

Motion: Moved that the original motion to accept the budget be changed to adopt the budget as modified. Aikenhead and Doran.

The question was called and the budget was adopted.

H. Financial Advisory Committee

The Board agreed that the proposed budget for the following year would be submitted to the Financial Advisory Committee by October 1 and that the Financial Advisory Committee would review the proposed budget and make recommendations to the Board at the Fall meeting.

Motion: Moved that at least one member of the Financial Advisory Committee be a past president. Linn and Staver. Motion carried.

I. Publications Advisory Committee

Glen Aikenhead presented the report of the Publication Advisory Committee.

1. Newsletter

Motion: Moved that there be a Newsletter Editor for a two-year renewable term and that the editor be responsible for informative columns that give the Newsletter more vitality and make it a richer source of information. Motion approved unanimously.

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Motion: Moved a friendly ammendment that the following serve as a guide for the proposed newsletter editor search committee:

- a. A Newsletter Editor be appoointed by the Board (a 2 year renewal term). He or she would be responsible for information and columns (short pieces by NARST members) that would give the Newsletter more vitality by being a more valuable and richer information source. The ultimate control and responsiblity for putting out the Newsletter would remain with the Executive Secretary. Recognizing that the vitality of the Newsletter positively affects the retention of members in NARST, the expenditure of funds may be considered an investment in membership. Moreover, because the quality of work by the Editor will be critical to NARST, NARST must facilitate and

support the negotiations between the Editor and his/her institution so that appropriate released time (e.g., a 3 credit teaching equivalent) be given to the Editor. By advertising the position and appointing an Editor in a manner not unlike the JRST Editor, the Newsletter Editor's job will acquire a status needed to ensure a high quality commitment with institutional support.

- b. The Newsletter print short summaries of conferences attended by a NARST member (written by an attending member) in order to keep other NARST members abreast of current developments. The responsibility to encourage submissions belongs to the the Newsletter Editor, the Board, and the Publications Advisory Committee. See, for example, the September issue containing a summary of the Brisbane International Symposium on World trends in Science Education. Jim Gallagher's description of the Panama science education conference held at the same time will appear in the next Newsletter.
- c. The Newsletter serve as a bulletin board to facilitate collaborative research, particularly international collaboration. NARST members could invite collaboration by stating the nature of collaboration sought. Also, NARST members could print a message indicating their willingness to collaborate with other researchers, indicating areas of interest and expertise.
- d. The Newsletter print the titles (table of contents or selections thereof) of non-American publications related to research in science teaching; e.g., European Journal of Science Education, Studies in Science Education, and the Australian journal.
- e. The Newsletter serve as the medium for NARST committees to elicit feedback on issues under discussion. A tear-off page in the Newslteer would act as a survey of NARST members. The results of such surveys could be published in the next issue.
- f. The Newsletter NOT print columns written by Board members because such comumns would have far greater impact if they appeared in science teachers' journals or science education

research journals. One exception would be news from Washington on research funding.

- g. The Newsletter print job placement information in light of the recent increase in the job market activity.

The friendly ammendment and the motion were approved unanimously.

2. Journal for Research in Science Teaching

Motion: Moved that the new Executive Secrettary explore publishing arrangements alternate to the present Wiley arrangements, in order that the Executive Secretary be in an advantageous position from which to renogotiate with Wiley in 1987. This exploration should be a priority for the Executive Secretary in early 1986. Aikenhead and Linn.

After discussion, the original motion was withdrawn and alternative proposed.

Moved that a committee consisting of the President, Executive Secretary and the chair of the publication committee with the JRST editor as an exofficio member explore publishing arrangements alternate to the present Wiley arrangements, in order that the Board be in an advantageous position from which to renogotiate with Wiley. Doran and Padilla.

The alternative proposal was approved unanimously.

3. Special Publications

Motion: Moved the appointment of a NARST Research Column Editor (a two year renewable term), who will be responsible for all research columns written under the NARST name.

- a. The Editor will be responsible to the Executive Board.
- b. The Editor will, with the approval of the Board, set guidelines and procedural mechanisms to follow, and enter into agreements with journal editors (e.g., Lester Paldy).
- c. The Editor will develop a network of potential contributors (within and outside NARST) with the help of the NARST Executive Board.

d. The Editor will be prepared to educate researchers on how to write for practitioners; for instance, by returning manuscripts three or four times with specific requests for changes.

e. NARST will facilitate and support the negotiations between the Editor and his/her institution, in order to ensure the institution's recognition and support of this scholarly work.

Moved by Aikenhead and seconded by Holliday. Motion carried unanimously.

The Research Coordinator was appointed as current Research Column Editor. A new Research Coordinator is due to be named within three months. The new Research Coordinator will contact Lester Paldy at that time.

Motion: Moved that NARST publish a membership directory every three years and that the directory include members' names, addresses, and phone numbers. Also that the dues invoice be changed to serve as a release form for including members' information in the directory. Aikenhead and Linn.

Motion carried.

Motion: Moved that, provided the cost estimates are reasonable, the NARST give its full support to the publication of the NARST Handbook of Research in Science Education as outlined in Dr. Yore's October 22 correspondence. Aikenhead and Linn.

After discussion, the motion was voted down.

J. Policy Advisory Committee

Ertle Thompson presented the report of the Policy Advisory Committee.

1. Committee Time/Task Expectations

Motion: Moved that individual committee calanders be reviewed, revised, and updated before the annual meeting so that the new revised calander updates proposed for 1986-87 may be acted on by the Board and published in the newsletter immediately following the spring board meeting. Thompson and Blosser.

Motion carried.

2. Committee Chairpersons

Motion: Moved that chairpersons of standing committees should be Board members or recent Board members.

(WHAT HAPPENED TO THIS MOTION? G.C.M., 12/85)

3. By-Law Changes

Motion: Moved that NARST amend Article III Section 3.02-B--VOTES-- to read as follows: Ex officio members of the Executive Board and all other committees have the same voting rights as other members.

Moved that NARST amend Article VI Section 6.04 to reas as follows: The members of the program committtee include the President-Elect as chairperson, six members (with two year rotating terms), the Research Coordinator (ex-officio), and the Executive Secretary (ex-officio).

Moved that the membership vote on a by-law change approved by the board in April, 1981 but not submitted to the membership as called for in the by-laws, to whit that Article III Section 3.4 VACANCIES read, "In the event that the office of the President-Elect is vacated, the Executive Board shall appoint a member of the Board to fill the unexpired term and the office shall be filled for the following year by elections. (The President shall then serve two years."

Moved that a new section, 6.07, Awards Steering Committee be inserted int the by-laws. The members of the steering committee would include the chairperson and six members (with three year rotating terms), plus executive secretary (ex-officio). The responsibilities include recommending policy for establishment of awards for the Association including the nature of the awards, the criteria for the awards, and the award's selection process. Additional subcommittee members may be appointed on a two-year rotating basis as needed for review/selection process.

By-law changes moved by Thompson and seconded by Aikenhead.

Motions approved unanimously.

By-Law changes must be approved by the membership. The proposed changes should be distributed to the membership with the February newsletter.

Motion: Moved that complementary rooms at the convention be prioritized in rank-order: the President, President Elect, Past President, and if available, the new President Elect. The Association will continue to

pay the spring meeting expenses of the Journal Editor and the Executive Secretary. Thompson and Blosser.

Motion carried unanimously.

Motion: Moved that the Board annually establish an allowance to cover reasonable expenses (meals and incidentals) for the Journal Editor, Executive Secretary, the President and the President Elect for the number of days of the annual convention and establish similar reasonable expenses for Board members attending the fall meeting. Linn and Thompson.

Motion carried.

Motion: Moved that \$40.00 per day in addition to room rate be defined as "reasonable" for the San Francisco meeting. Linn and Thompson.

Motion carried.

The Policy Advisory committee recommended that the idea of forming an Executive Committee to act in the interim between annual Board meetings be dropped and that the writing of the policy manual be delayed until the Bylaws changes have been acted upon by the membership.

K. Program Committee

Jim Barufaldi presented the report of the Program Committee.

The program committee reported that 164 proposals for presentations at the annual meeting were received. Each proposal was reviewed by three people

Concerns were expressed about the cost of speakers at the annual meeting.

Motion: Moved that revenues and expenses projected for the 1987 meeting in Washington, D.C. be reviewed at the spring meeting of the Board in San Francisco. Holliday and Yeany.

Motion carried.

L. Research Committee

Rodney Doran presented the report of the Research Committee.

Motion: Moved that NARST fund the printing of 500 copies of the 1985 Research Matters and the preparation and printing of 500 copies of new Research Matters for distribution at the San Francisco meeting. Estimated costs for preparation is \$100.00 and copying at 3.5 cents per copy (\$175.00). Doran and Padilla.

Motion carried.

Motion: Moved that the 1984, 1985 and 1986 Research Matters be submitted to the ERIC/SMEAC system after screening by the Research Committee. Aikenhead and Padilla.

Motion carried.

M. Elections Committee

Ertle Thompson presented the report of the Election Committee.

N. Awards Committee

Mike Padilla presented the report of the Awards Committee.

Motion: Moved that any member of the NARST awards committee be precluded from submitted their paper for consideration. Blosser and Doran.

Motion carried.

Motion: Moved that any member of the JRST awards committee in round one of judging either withdraw their article(s) or resign from the committee for this year.

(WHO MADE THIS MOTION AND WHAT HAPPENED TO IT? G.C.M.)

O. Ad Hoc Committee on Internatinal Issues

Pat Blosser presented the report of the committee on international issues.

Marcia Linn recommended that board members encourage science educators to apply for Fulbright grants. Such encouragement should be presented in the Newsletter.

Glen Aikenhead described the recent work of the internatinal organization for science and technology education.

P. Editor of Journal

Russle Yeany presented his report as editor of the Journal.

Motion: Moved the five candidates mentioned in the report of the editor, Russle Yeany, be approved with terms ending in 1989.

(WHO MADE THE MOTION? WHAT HAPPENED TO IT? G.C.M.)

Motion: Moved that NARST cooperate with Wiley in their effort to promote institutional memberships by:

1. endorsing the activity;
2. providing NARST mailing lists;
3. suggesting other mailing lists;
4. participating in the mailings; and
5. suggesting enhancements to improve the effort.

Yeany and Linn.
Motion carried.

Q. Executive Secretary Report

William Holliday presented his report as executive secretary.

Motion: Moved that Dr. William G. Walsh be placed in the status of emeritus and informed of such by mail. Holliday and Padilla.

Motion carried.

Motion: Moved that NARST meet after AERA in 1987, April 24-27, 1987. Holliday and Linn.

Motion carried.

R. President's Report

David Butts presented the president's report.

Motion: Moved that all reports submitted for the present meeting be accepted. Doran and Padilla.

Motion carried.

S. Resolution

Whereas; Bill Holliday has served as Executive Secretary of the NARST 1981-1985, and

Whereas; Bill Holliday has elevated the professional status of such position within the Association, and

Whereas; Bill Holliday's leadership has contributed to enhancement of the NARST nationally and internationally,

Be It Resolved; That the Executive Board of the NARST commend Bill Holliday for his excellent leadership and express, on behalf of the NARST, our sincere appreciation to Bill Holliday for his dedicated service and many professional and personal contributions to the routine operations, growth, and improvement of the National Association for Research in Science Teaching during his tenure as Executive Secretary, January 1, 1981 to December 31, 1985.

Moved by Thompson, seconded by ?.
Motion carried.

REPORT OF FINANCIAL ADVISORY COMMITTEE

MEMBERSHIP

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Glenn Markle, ex-officio
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513-729-1834

COMMITTEE CHARGE

The Financial Advisory Committee is responsible for considering the annual budget prepared by the Executive Secretary, approve program expenses, approve publication costs and new ventures, offer advice and recommendations to the Executive Board regarding all financial affairs of the Association, and conduct an annual audit of the financial accounts of the Association.

The members include a chairman (three-year term), three members (with three-year rotating terms), and the Executive Secretary (ex-officio).

MEMO

To: Dave Butts
From: Marcia Linn
Date: February 26, 1986
Re: Financial Advisory Committee for NARST

I look forward to the San Francisco meeting. It is my understanding that there are no items pending for Financial Advisory Committee consideration.

The outstanding item from the last board meeting and also from previous financial committee discussion concerns the newsletter of the organization. It is my understanding that we will get some information concerning costs and benefits of the newsletter after the board meeting.

Calendar of Committee Activities

The Financial Advisory Committee considers issues related to costs for the organization and benefits from expenditures throughout the year.

In the spring of 1985, part of the annual meeting, the Financial Committee reviewed the organization budget and identified issues for discussion at the meeting. A primary concern was identification of a reporting format for budgetary information that clearly linked the costs of each activity to the revenue from the activity and further linked projected costs and revenue to actual costs and revenue. Good progress has been made on this issue and we currently have a reporting format that seems to serve the organizations needs.

During the fall, the Financial Advisory Committee considers the projected budget for the next fiscal year, identifies issues of concern to the membership, and recommends action to the board. For example, in the fall of 1985, the Financial Advisory Committee considered the issue of raising dues and made a decision to recommend an increase in dues to the full board. Another issue of concern to the Financial Advisory Committee was to establish guidelines for expenditures that allow close projections of budgeted costs; good progress has been made on this issue.

During the winter of 1985 and the spring of 1986, the Financial Advisory Committee has continued to consider issues of costs and benefits to the organization. The one issue that remains current concerns the costs and benefits of the newsletter. Efforts have been to identify individuals to participate in newsletter activities such that the newsletter will become more

responsive to the organization's current needs. There are some benefits in considering the financial implications of these decisions.

REPORT OF PUBLICATIONS ADVISORY COMMITTEE

MEMBERSHIP

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 404-542-1763

Glenn Markle, ex-officio
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 513-729-1834

COMMITTEE CHARGE

The Publications Advisory Committee is responsible for establishing policy concerning the NEWSLETTER, the JOURNAL, and special publication ventures of the Association; reviewing arrangements with editors of publications; and suggesting changes in yearly publication practices to the Executive Board.

The members include a chairman (three-year term), three members (with three-year rotating terms), and the Editor (ex-officio).

- 1. No pending items referred for consideration.

Correct.

- 2. Other items for consideration?

Not to my knowledge.

- 3. Calendar of committee activities 1985-86.

Attached.

- 4. Transition to next chairperson. *This will be a personal agenda item for me. Please let me know who this new person will be.*

Time/Task Expectations: Publications Advisory Committee

June 1, 1985:

Memo to committee outlining the issues to be addressed. The issues are those identified at the spring NARST executive meeting.

October 1, 1985:

Memo to committee requesting their reaction to the Chair's draft report for the fall Executive meeting.

November 1, 1985:

Forward final report to NARST President for the fall executive meeting.

January 1, 1985:

Report back to the committee on the fall executive meeting pertaining to the business of the Publications Advisory Committee. (No new business came up at the fall executive meeting so no new work was planned for the spring 1986 executive meeting.)

March 1, 1986:

Prepare a report for the spring executive meeting.

NOTE: The task of recommending a new JRST Editor did not occur this year. See R. Bybee's time line for that task which he supervised in 1982-83. The chair to the Publications Advisory Committee in the 1987-88 year will have such a task.

Glen F. Hendrick

REPORT OF POLICY ADVISORY COMMITTEE

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513-729-1834

COMMITTEE CHARGE

The Policy Advisory Committee is responsible for annually reviewing the Bylaws, changes in structure or orientation of the Association, and reviewing of new activities or ventures of the Association.

Report of the Policy Advisory Committee
NARST Executive Board
San Francisco, Calif.
March 28, 1986

MEMBERSHIP

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COMMITTEE CHARGE

The Policy Advisory Committee is responsible for annually reviewing the By-laws, changes in structure or orientation of the Association, and reviewing of new activities or ventures of the Association.

At the December 12, 1985, Executive Board meeting in New Orleans the Board approved motions presented by the Policy Advisory Committee for By-laws changes as included in pages 35-39 of the Executive Board Fall Meeting Book. The proposed amendments are to be mailed by the Executive Secretary along with a ballot to members as per ARTICLE IX AMENDMENTS of the NARST By-laws. After the By-laws changes have been approved by the membership the Policy Advisory Committee will then proceed with the development of a new policy manual including operational policies and procedures.

The amendments having not been presented to the membership for approval, the Policy Advisory Committee presents no further motions for action by the Board at this time.

REPORT OF PROGRAM COMMITTEE

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MEMBERSHIP (Continued)

Glenn Markle, ex-officio
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513-729-1834

COMMITTEE CHARGE

The Program Committee is responsible for establishing the theme and format for the Annual Meeting, arranging for special speakers and symposia, and evaluating abstracts for contributed papers, and the evaluation of the Annual Meeting. (A local arrangement committee may be established if desired.)

The membership of this committee consists of the President-Elect as chairman, six members on two year rotating terms and as ex-officio members, the Research Coordinator and the Executive Secretary.

(No report available)

REPORT OF RESEARCH COMMITTEE

MEMBERSHIP

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Glenn Markle, ex-officio
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513-729-1834

COMMITTEE CHARGE

The Research Committee is responsible for preparing yearly reviews of research in science education, working closely with ERIC Center and recommending needed areas of research, research symposia, and training programs.

The membership of this committee consists of chairman and three members with two year rotating terms. The Executive Secretary is an ex-officio member of the committee.



Founded in 1928
Organized to improve science teaching - through research
Sponsoring the Journal of Research in Science Teaching
Affiliated with AAAS, ASE, ICASE and NSTA.

EXECUTIVE SECRETARY
Dr. William G. Holliday
NARST-EDCI
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Calgary, Alberta
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PRESIDENT
Dr. Ertle Thompson
Ruffner Hall
University of Virginia
Charlottesville, VA 22903

MEMORANDUM

PRESIDENT-ELECT
Dr. David Butts
Science Education Department
University of Georgia
Athens, GA 30602

TO: Research Committee Members

FROM: Rodney L. Doran

DATE: February 27, 1986

IMMEDIATE PAST PRESIDENT
Dr. Ann C. Howe
Dept. of Mathematics & Science Education
North Carolina State University
Raleigh, NC 27650

BOARD MEMBERS-AT-LARGE
Dr. Glen Aikenhead (1986)
Faculty of Education
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

Enclosed is a copy of the report of the Research Committee which I submitted to the Board meeting in New Orleans during December. Most of the recommendations listed were approved. I have been waiting for the minutes to arrive so I could be more specific on proposed actions, but can wait no longer. Also, a motion from the Publications Advisory Committee had an impact on the Research Committee as the motion related to a Research Column Editor for NARST.

Dr. Patricia E. Blosser (1987)
Science & Mathematics Education
The Ohio State University
Columbus, OH 43210-1172

Dr. Linda R. DeTure (1985)
School of Education
Rollins College
Winter Park, FL 32789

Dr. Marcia C. Linn (1986)
Lawrence Hall of Science
University of California
Berkeley, CA 94720

I have solicited authors for this year's Research Matters. You have received copies of those for your comments. They have been entered onto microcomputer discs here for subsequent editing and copying. They will be prepared in time for the San Francisco meeting. I have also copied last year's Research Matters for distribution at San Francisco.

Ms. Alice J. Moses
National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

Dr. Michael J. Padilla (1987)
Science Education Department
University of Georgia
Athens, GA 30602

The Board suggested that we should screen and edit the previous year's Research Matters before we submit them to ERIC. Another suggestion was the possibility of hiring a professional editor to make the existing issues more readable for the science-teacher audience. We will discuss these suggestions at our meeting in San Francisco. Other issues to discuss include the Haney letter and other items you may suggest. I am looking forward to seeing you in San Francisco.

Dr. Russell H. Yeany (1985)
Science Education Department
University of Georgia
Athens, GA 30602

JOURNAL EDITOR
Dr. James Shymansky (1984)
Science Education - Physics Bldg.
University of Iowa
Iowa City, IA 52242

RESEARCH COORDINATOR
Dr. Rodney L. Doran (1986)
553 Baldy Hall
SUNY at Buffalo
Amherst, NY 14260

RLD:dc
encls.

Distribution:

Jane Bowyer
Roger T. Johnson
Joseph Novak
Glen Markle

c.c. James Shymansky
David Butts
James Barufaldi



Report of NARST Research Committee
Dec. 12, 1985
Rodney L. Doran, Chair

The following activities have been accomplished:

1. Recommended to ERIC/SMEAC candidates for the Retrospective Review as well as the Annual Review. (See June 18th letter)
 2. Helped organize two Research Training Workshops for the San Francisco meeting, with the help of Marcai Linn and Jim Shymansky. (See the Linn, Shymansky and my Nov 14th letters)
 3. Contacted the following people to write "Research Matters" for the 1986 NSTA meeting:

Glen Aikenhead	Science, Technology, and Society
Mike Padilla	Process Testing
Roger Johnson	Cooperative Learning
Dorothy Gabel	Research Needs of Secondary Teachers
Joe Novak	Concept Mapping (tentative)
Jane Bowyer	Not Confirmed
- A. The NARST logo will be prominently located.
B. Copies of last year's issues and the above will be prepared for the March 1986 meeting. Costs for 1985 included \$473 for typesetting, \$73 for printing (10 sheets-250 copies), and \$7 for shipping. Additional copies were printed at Cincinnati.

Reactions to the President's charge:

1. The Research Matters (RM) have been well received at the NSTA meetings. The ERIC/SMEAC is willing to accept issues as is or grouped by year (eg 1984, etc). NARST will make the RM available at a table in the NSTA exhibit area as in the last few years.
2. "Packets" of the RM are available for use with prospective members. Holliday wrote about the guidelines for selecting science textbooks. NARST members could use the RM at local or state science teacher meetings or at other association meetings that might include prospective NARST members.
3. Interest in another committee is at an alltime low. Shymansky (NSTA Research Committee Chair) stated that NSTA is busy with publishing current issues of What Research Says. He will let NARST know when it can be of some help.
4. These issues relate to "Membership Recruitment" specifically. I will summarize my knowledge of NARST action with respect to these --whether the Research Committee was involved or not.
 - 4-1 Several joint projects are planned, eg NCTM and AAP meeting in March 1986, continuing NSTA presentations, etc.. Other groups for possible cooperative ventures include AERA, AAAS, ASCD, AASA, SSMA, NABT, AAPT, NASSP, NSSA, CSSS, IRA, to name a few.
 - 4-2 Dorothy Gabel will write a RM on that survey. The Holliday letter to Aldridge is an avenue to facilitate linking teachers and researchers.
 - 4-3 I believe such sessions have been scheduled. However, these are likely planned by the individuals involved. How can NARST help in this area?

- 4-4 The Good-Shymansky project is underway. (See p. 77)
- 4-5 See 4-4.
- 4-6 Packets of RM might be useful. (Also see 4-3)
- 4-7 See Delta project (p.77)
- 4-8 See 4-3 and 4-6.
- 4-9 A cross-referenced list of NARST members with specialty areas indicated might be useful. Information could be gathered on the Membership blank or section in a newsletter. Also see letter to Aldridge and comments to 3,5 and 8 above.
- 4-10 See comments to items 3,5,8 and 9 above.
- 4-11 Meta-analysis procedures are being scrutinized by the experts involved. Shymansky and colleagues will report at the San Francisco meeting about their efforts. Such dissemination projects must take into account the characteristics of the intended audience.
- 4-12 Within some limitations, the RM have addressed this concern. Involvement of more NARST members than those on the Research Committee can only be helpful. How does this interact with the proposed Research Column Editor?
- 4-13 Should classroom teachers be involved in the translation of JRST articles and/or RM issues? It's becoming clear that we need more than vague feedback on the perceived value of the RM. How can NARST/NSTA best accomplish this? Also see comments to 4-12.
- 4-14 Is the Yore Handbook so conceived?
- 4-15 The RM and the proposed Research Columns might be starters for this suggestion. A survey of other associations in which NARST members are active would yield suggestions as to the style or format for other groups.
- 4-16 Yore Handbook again?
- 4-17 Are any NARST members active in or knowledgeable of the Research Labs and their operation?
- 4-18 Would selected RM be appropriate for NASSP journals and/or newsletters?
- 4-19 Were the NSTA Chataqua courses well received? Would NSF be interested in supporting such activities?
- 4-20 On alternative years, NARST meets in close proximity to NSTA. The Holliday-Aldridge letter raises the possibility of extending the interaction for specific research-oriented teachers.

The Research Committee has not yet discussed the Haney letter. If the Board believes this suggestion has some merit, we will examine the issues and prepare a recommendation for the Annual Meeting.

Recommendations for Board Action

1. That NARST fund the printing of 500 copies of the 1985 RM and the preparation and printing of 500 copies of new RM for distribution at the San Francisco meeting. Estimated costs for preparation is \$100 and copying at 3.5 cents per copy(\$175).
2. That the 1984, 1985 and 1986 Research Matters be submitted to the ERIC/SMEAC system.
3. That NARST contact related associations for the inclusion of RM issues into their journals and/or newsletter. This attempt should include "free standing" journals suchas the Instructor.
4. That NARST prepare packets of the RM for distribution to all its members, with a cover letter encouraging use at local, state, regional and national meetings of related associations.
5. That NARST conduct a survey of science teacher perception of the strengths and weaknesses of the RM. (Distribution of a questionnaire and self-addressed envelope at the 1986 meeting would be the quickest approach.)
6. That NARST survey its membership for interest in working with science teachers on research projects. The survey would collect descriptors of NARST members areas of research interest.
7. That NARST should contact NSF or other foundations for possible support of the dissemination of RM packets to state science supervisors, school supervisors/chairs and science teachers.

RLD:RLD

Report of Research Committee for NARST Board Meeting
March 1986

1. Two research training sessions have been scheduled for the San Francisco meeting:

Meta-Analysis	Shymansky, Hedges and Woodworth (Iowa and Chicago)
---------------	---

Microcomputers and Research	John Layman, Lawrence Hall of Science (Visiting from Maryland)
--------------------------------	---

2. Five manuscripts for Research Matters have been received for use at the San Francisco meeting. They have been sent to the Research Committee for editing and suggestions. Arrangements have been made for copying these on our campus. The NARST logo will be located on top of the first page.
3. The attached Calendar of Activities is submitted for consideration by the Board, the new Research Coordinator, and the Research Committee.

Calendar of Activities for NARST Research Committee

March/April:

Report to Board of Directors at annual meeting.

- 1. Discuss needs for next Annual Conference, e.g. themes, research workshops, panels and speakers.
- 2. Suggest possible authors for Annual Research Review.
- 3. Recommend topics for Research Matters and other NARST activities.

Attend meeting of the NSTA Research Committee.

May/June:

Correspond with NARST Research Committee.

- 1. Summary of meeting.
- 2. Collect suggestions for future activities.

September:

Prepare report for Fall Board Meeting.

November:

Attend meeting of Program Committee and Board.

- 1. Suggest topics for Research Workshops.
- 2. Assist with the planning for the annual meeting.
- 3. Suggest authors for Research Matters.

February:

- 1. Prepare report for Board meeting at Annual Conference.
- 2. Help schedule people to staff the NARST "table" at the NSTA meeting.
- 3. Edit and prepare Research Matters for distribution at NSTA meeting.



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Affiliated with AAAS, ASE, ICASE and NSTA.

October 28, 1985

EXECUTIVE SECRETARY
Dr. William G. Holliday
NARST
The University of Calgary
Calgary, Alberta
Canada T2N 1N4

PRESIDENT
Dr. David Butts
Science Education Department
University of Georgia
Athens, GA 30602

Dr. Richard E. Haney
The University of Wisconsin-Milwaukee
Department of Curriculum and Instruction
P. O. Box 413
Milwaukee, WI 53201

PRESIDENT-ELECT
Dr. James P. Barufaldi
Science Education Center
EOB 340
The University of Texas at Austin
Austin, Texas 78712

Dear Dick:

IMMEDIATE PAST PRESIDENT
Dr. Erle Thompson
Ruffner Hall
University of Virginia
Charlottesville, VA 22903

Thank you so very much for your recent thoughtful letter of October 14 regarding NARST assuming leadership in developing a nation-wide computer network. The concept has many very attractive features.

BOARD MEMBERS-AT-LARGE
Dr. Glen Aikenhead (1986)
Faculty of Education
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

As is our practice, I am referring your suggestion to the Research Committee of the Executive Board for their study and recommendation for action by the Board.

Dr. Patricia E. Blosser (1987)
Science & Mathematics Education
The Ohio State University
Columbus, OH 43210-1172

Thank you for your continued contributions to strengthening NARST.

Dr. Jane B. Bowyer (1988)
Education Department
Mills College
Oakland, CA 94613

Very sincerely,

Dr. Marcia C. Linn (1986)
Lawrence Hall of Science
University of California
Berkeley, CA 94720

David P. Butts
President

Dr. Michael J. Padilla (1987)
Science Education Department
University of Georgia
Athens, GA 30602

Dr. Gerald Skoog
National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

DPB:dk

John Staver (1988)
College of Education
University of Illinois at Chicago
Chicago, IL 60680

cc: Dr. Rodney L. Doran
Dr. Jane Bowyer
Dr. Roger T. Johnson
Dr. Joseph D. Novak
Dr. William G. Holliday

JOURNAL EDITOR
Dr. Russell H. Yeany
Science Education Research
an Evaluation Lab
Science Education Department
University of Georgia
Athens, GA 30602

RESEARCH COORDINATOR
Dr. Rodney L. Doran (1988)
553 Baldy Hall
SUNY at Buffalo
Amherst, NY 14260



THE UNIVERSITY OF WISCONSIN—MILWAUKEE/ P.O. Box 413, Milwaukee, Wisconsin 53201

SCHOOL OF EDUCATION
DEPARTMENT OF CURRICULUM AND INSTRUCTION

AREA CODE 414
963 - 4814

October 14, 1985

Dr. David P. Butts
President of NARST
Department of Science Education
Athens, GA 30602

Dear Dave:

I have been meaning to write you ever since last Spring about an idea that came to me at the NARST meeting at French Lick. For years at these meetings many of us have decried the scattered efforts of researchers in science education. These occur, of course, because there are few researchers at any one institution and much of the work is done by doctoral students and, hence, usually of a short term nature.

I would like to suggest that NARST could do something very significant about this by taking the initiative in developing a nation-wide computer network connecting NARST members and their representative institutions. This would enable the following types of things to happen:

1. Researchers from several institutions could team up to conduct large scale, long-term research studies in which data could be gathered over a wide range of situations throughout the country and perhaps even in foreign countries.
2. Doctoral students could draw upon the expertise of science educators from more than one institution. Perhaps a computer network would make it possible for a doctoral committee to be composed of faculty from more than one university. This could require some administrative gymnastics but should lead to the improvement of doctoral dissertations in science education.
3. The professional development of all participant NARST members would be enhanced by the opportunity to:
 - (a) interact with colleagues in designing and conducting research studies;
 - (b) supervise the work of neophyte researchers; and,
 - (c) obtain data through replications of studies in a wide range of situations.

Thus, we would help ourselves as well as develop a better research base for practices in science education.

David P. Butts

2

October 14, 1985

As I see it NARST would have to have a committee explore the feasibility of this operation and to seek funding to plan and initiate it. We could start small by linking just a few institutions having only one science educator each with institutions having an active science education center in which doctoral research is underway. Once the bugs are out of the system and its many potentialities are realized, other major science education centers could acquire satellites in the same way. The final step would be to link all of the centers and their satellites in one grand system.

I have no idea what this would cost or what hardware would have to be used but this could be an exciting new role for NARST. We might wind up having several full-time employees to keep this operation going. I don't know of any other organization that could initiate anything like this easily. The opportunity for cooperative study, the sharing of expertise and data afford by the computer, should not be ignored. For the first time we should be able to conduct the kinds of research we have always been saying somebody should do.

I'm not an expert in computer networks, but I would be happy to get involved in exploring the possibilities of this idea with other NARST members.

Sincerely,



Richard E. Haney
Professor

REH:dp
0/1

REPORT OF ELECTION COMMITTEE

MEMBERSHIP

Ertle Thompson, Chair
University of Virginia
Ruffner Hall
Charlottesville, VA 22903
804-924-3738

Robert W. Howe
The Ohio State University
ERIC Center
Columbus, OH 43210
614-422-6717

David Lockard
University of Maryland
The International Clearinghouse
College Park, MD 29742
301-454-4028

COMMITTEE CHARGE

The Nomination Committee is responsible for establishing the slate of officers for each election four months prior to the date of the Annual Meeting, making arrangements for preparation and distribution of ballots three months prior to the date of the Annual Meeting, tabulating election results, notify candidates of the outcome of the election a month prior to their assuming office, announcing election results at the Annual Meeting, and arrange for installation of new officers and transfer of the responsibilities of the Executive Board for the Association.

The membership of this committee shall consist of the immediate Past President as chairman and two members with one year terms.

Report of the NARST Election Committee
to the NARST Executive Board
San Francisco, Calif.
March 28, 1986

The election of officers for 1986-87 was conducted as per policies and procedures prescribed by the by-laws of the NARST. The election results are as follows:

President-elect--Linda R. DeTure
Research Coordinator--Rodger W. Bybee
Executive Board--Ronald G. Good
 --Emmett L. Wright

Respectfully submitted for the Elections Committee

Ertle Thompson, Chair
Robert Howe
David Lockard

REPORT OF AWARDS COMMITTEE

MEMBERSHIP, AWARDS STEERING COMMITTEE

Michael J. Padilla, Chair
University of Georgia
Department of Science Education
Athens, GA 30602
404-542-1763

Patricia E. Blosser
The Ohio State University
ERIC Center
Columbus, OH 43210
614-422-6717

John W. Butzow
136 Jackson Street
Indiana, PA 15701
412-357-2480

James D. Ellis
Colorado College
Bio Science Curriculum Study
Colorado Springs, CO 80903
303-473-2233, Ext. 738

Joy S. Lindbeck
362 Keith Avenue
Akron, OH 44313
216-375-6966

Peter A. Rubba, Jr.
Pennsylvania State University
Room 160 Chambers Building
University Park, PA 16802
814-865-4700

John R. Staver
University of Illinois at Chicago
School of Education
Chicago, IL 60655
312-996-5630

William G. Holliday, ex-officio
University of Calgary
NARST-EDCI
Calgary, Alberta, CANADA T2N 1N4
403-220-7485

AWARDS SUB-COMMITTEE

JRST AWARD

John R. Staver, Chairman
University of Illinois at Chicago
School of Education
Chicago, IL 60655
312-996-5630

J. Hugh Baird
Brigham Young University
Box 72 McKay
Provo, UT 34602
301-378-3177

John W. Butzow
Indiana University of Pennsylvania
Education
Indiana, PA 15701
412-357-2480

Eugene L. Chiappetta
University of Houston
Education
Houston, TX 77004
713-749-1624

Claudia B. Douglass
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James D. Ellis
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Bio Science Curriculum Study
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Willis J. Horak
University of Arizona
College of Education
Tucson, AZ 85721
602-626-1019

Joy S. Lindbeck
University of Akron
Education
Akron, OH 44304
216-375-6966

JRST AWARD (Continued)

Larry E. Schafer
Syracuse University
Education
Syracuse, NY 13210
315-682-8668

Barbara M. Strawitz
Louisiana State University
Curriculum and Supervision
Baton Rouge, LA 70803
504-388-2444

Lynn Talton
South Carolina Department of Education
Office of Research
Columbia, SC 29205
803-758-8610

NARST AWARDS

Patricia E. Blosser, Chair
The Ohio State University
Science and Mathematics Education
Columbus, OH 43210-1172
614-422-6717

Dale R. Baker
University of Utah
133 MBH
Salt Lake City, UT 84112
801-581-7158

Joel E. Bass
Sam Houston State University
Huntsville, TX 77340
409-294-1111

Lowell Bethel
The University of Texas at Austin
Science Education Center
Austin, TX 78712
512-471-7354

Linda Crow
Houston Community College System
Houston, TX 77007
713-868-0758

William B. McIlwaine
Millersville State College
Millersville, PA 17551
717-872-3390

NARST AWARDS (Continued)

Peter A. Rubba, Jr.
Pennsylvania State University
Room 160 Chambers Building
University Park, PA 16802
814-865-4700

J. Nathan Swift
SUNY-Oswego
Secondary Education Department
Oswego, NY 13126
315-341-4024

Richard L. Williams
University of Victoria
Faculty of Education
Victoria, British Columbia, CANADA V8W 2Y2
604-721-7759

COMMITTEE CHARGE

The Awards Steering Committee is responsible for recommending policy for establishment of awards for the Association including the nature of the awards. The criteria for the awards and the award's selection process.

The Awards Steering Committee consists of the chairman and six members on three year rotating terms. Additional subcommittee members may be appointed on a two year basis as needed for the review/selection process. The Executive Secretary is an ex-officio member of the committee.



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Affiliated with AAAS, ASE, ICASE and NSTA.

TO: NARST Board Members

FROM: Michael Padilla, Awards Committee Chairman *Michael*

DATE: March 7, 1986

RE: Committee Action, 1985-86

EXECUTIVE SECRETARY

Dr. William G. Holliday
NARST
The University of Calgary
Calgary, Alberta
Canada T2N 1N4

PRESIDENT

Dr. David Butts
Science Education Department
University of Georgia
Athens, GA 30602

PRESIDENT-ELECT

Dr. James P. Barufaldi
Science Education Center
EOB 340
The University of Texas at Austin
Austin, Texas 78712

IMMEDIATE PAST PRESIDENT

Dr. Ertle Thompson
Ruffner Hall
University of Virginia
Charlottesville, VA 22903

BOARD MEMBERS-AT-LARGE

Dr. Glen Aikenhead (1986)
Faculty of Education
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

Dr. Patricia E. Blosser (1987)
Science & Mathematics Education
The Ohio State University
Columbus, OH 43210-1172

Dr. Jane B. Bowyer (1988)
Education Department
Mills College
Oakland, CA 94613

Dr. Marcia C. Linn (1986)
Lawrence Hall of Science
University of California
Berkeley, CA 94720

Dr. Michael J. Padilla (1987)
Science Education Department
University of Georgia
Athens, GA 30602

Dr. Gerald Skoog
National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

John Staver (1988)
College of Education
University of Illinois at Chicago
Chicago, IL 60680

JOURNAL EDITOR

Dr. Russell H. Yeany
Science Education Research
an Evaluation Lab
Science Education Department
University of Georgia
Athens, GA 30602

RESEARCH COORDINATOR

Dr. Rodney L. Doran (1986)
553 Baldy Hall
SUNY at Buffalo
Amherst, NY 14260

The NARST Awards Committee had three major responsibilities this year. These were:

1. To select the best article in the journal for the JRST Award
2. To select the best paper and classroom applications awards from last year's NARST papers
3. To determine the recipient for the NARST Distinguished Contribution Award.

Tasks 1 and 2 will be reported on separately by John Staver and Pat Blosser the respective chairpersons of these awards. A description of number 3 follows.

A description of the NARST Distinguished Contributions to Science Education Award was constructed by myself and distributed for comments to all members of the Awards Committee. The feedback obtained from these individuals was used to construct a final draft of this award description. This was distributed to committee members.

A copy of the award description (enclosed) was mailed to all NARST members in late October and an announcement was printed in the last issue of JRST.

Five persons were nominated for the award. All persons on the awards steering committee used the attached form to rate each set of papers.

A total number of points as well as an average rank order were computed for each set of papers. The winner, Dr. Anton Lawson, was ranked first on each of these variables.

In order to give future chairpersons an idea of duties regarding this award, I also am including a time line of tasks to be completed.

Calendar of Events for
Distinguished Contribution
Award

Michael Padilla
March, 1986

Month

- April -
May
- Establish award criteria, rating sheet format and due date for award at Award Committee meeting at National Convention
 - Obtain names and addresses of committee members
 - Prepare advertisement for NARST newsletter and JRST specifying procedures for applying for award
 - Distribute ad to newsletter and John Wiley (JRST)
- January
- Mail out each nominated person's papers to raters
- February
- Make decision on person to get award
 - Write letter to winner and the person who nominated him/her
 - Write thank you to others nominated as well as nominators
 - Inform NARST president and executive secretary of results
 - Make sure plaque is ordered for award



Distinguished Contributions to Science Education Research

To recognize an individual who has made outstanding and substantial contributions to the field of Science Education through research, over an extended period of time.

This award will be made to an individual who has over a period of time:

1. made a substantial and continuing contribution(s) to Science Education through research;
2. provided notable leadership in Science Education through research;
3. had a substantial impact on Science Education through research.

The award will be bestowed only when a superior candidate exists.

To apply, a nominator or candidate should submit 7 copies of the following:

1. a cover letter, not to exceed 5 pages in length, describing the nature of the contributions of the individual, including documentation as to why these contributions are considered outstanding and substantive;
2. up to five letters of support not to exceed one page in length which provide evidence of the extraordinary contributions of the individual; and,
3. an abbreviated curriculum vita including a list of publications and accomplishments.

Dr. Michael J. Padilla, Chairperson
NARST Awards Committee
Department of Science Education
University of Georgia
Athens, GA 30602

Deadline: January 15, 1986

Name of Nominee _____

Reviewer _____

Rating Scale

Poor	Adequate	Good	Excellent	Without Peer
1 2	3 4	5 6	7 8	9 10

<u>Criterion</u>		<u>Points</u>
1. Contributions have been substantial and continuing over a period of years	(10 points)	_____
2. The individual has provided leadership in Science Education through research	(10 points)	_____
3. The individual has had a significant impact on Science Education through research	(20 points)	_____
4. Overall rating of candidate's case	(30 points)	_____
	Total	_____

COMMENTS:



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EXECUTIVE SECRETARY
Dr. William G. Holliday
NARST
The University of Calgary
Calgary, Alberta
Canada T2N 1N4

February 20, 1986

PRESIDENT
Dr. David Butts
Science Education Department
University of Georgia
Athens, GA 30602

TO: NARST Board Members

FROM: John R. Staver, JRST Award Subcommittee Chairperson

PRESIDENT-ELECT
Dr. James P. Barufaldi
Science Education Center
EOB 340
The University of Texas at Austin
Austin, Texas 78712

RE: Subcommittee Action, 1985-86

IMMEDIATE PAST PRESIDENT
Dr. Ertle Thompson
Ruffner Hall
University of Virginia
Charlottesville, VA 22903

The JRST Award Subcommittee has spent a busy and productive year evaluating articles in volume 22 of the Journal. Three new members were added this year in order to maintain a reasonable reading load for each member and to retain the high quality of the selection process. Most members were assigned to evaluate two issues. One person read and rated three issues. Enclosed with the report are the rating sheet and criteria used. The rating sheet and criteria are identical to those used last year.

BOARD MEMBERS-AT-LARGE
Dr. Glen Aikenhead (1986)
Faculty of Education
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

The selection process was carried out in two phases. First, the best article within each issue was selected. Committee members who read issues are provided on an enclosure. Second, the JRST Award winner was selected by evaluation of all first round winners. Each committee member evaluated all first round winners. In both phases the ratings were evaluated by me in two ways to make selections:

Dr. Patricia E. Blosser (1987)
Science & Mathematics Education
The Ohio State University
Columbus, OH 43210-1172

Dr. Jane B. Bowyer (1988)
Education Department
Mills College
Oakland, CA 94613

Dr. Marcia C. Linn (1986)
Lawrence Hall of Science
University of California
Berkeley, CA 94720

Dr. Michael J. Padilla (1987)
Science Education Department
University of Georgia
Athens, GA 30602

- 1) Highest total points obtained
- 2) Lowest total ranking relative to other articles
(Phase 1-within an issue; Phase 2-first round winners)

Dr. Gerald Skoog
National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

In all cases this system indicated that a single article should be chosen from a particular issue, and that a single article should be the JRST Award winner. The title and author are given below.

John Staver (1988)
College of Education
University of Illinois at Chicago
Chicago, IL 60680

The Awards Committee will meet at the 1986 NARST meeting. We plan to discuss several issues relative to awards.

JOURNAL EDITOR
Dr. Russell H. Yeany
Science Education Research
an Evaluation Lab
Science Education Department
University of Georgia
Athens, GA 30602

1985 JRST Award Article

RESEARCH COORDINATOR
Dr. Rodney L. Doran (1986)
553 Baldy Hall
SUNY at Buffalo
Amherst, NY 14260

A Review of Research on Formal Reasoning and Science Teaching
by Anton E. Lawson, Department of Zoology, Arizona State
University, Tempe, AZ 85287

CALENDAR OF ACTIVITIES FOR
JRST AWARD SUBCOMMITTEE
JOHN R. STAVER
MARCH 1986

<u>Month</u>	<u>Task</u>
June/July	Obtain names and addresses of committee members. Add three new members. Prepare first mailing to include: <ol style="list-style-type: none"> 1. Letter explaining JRST Award procedures and specifying deadlines 2. Rating form 3. Sheet explaining rating form 4. Assignments of raters to specific issues of JRST. Each issue of JRST should be assigned to three committee members.
November	Reminder letter to each rater specifying deadlines.
January	Collect and tabulate results of first round ratings Decide which <u>one</u> article from each issue is to go to the second round. Mail out second round materials which should include: <ol style="list-style-type: none"> 1. Letter explaining second round procedures including deadline 2. Rating form 3. Sheet explaining rating form. Each rater should rate each of the issue- winning articles.
February	Tabulate ratings. Decide which article(s) is to receive award. Call NARST president with information in order to get winner's name in program. Call award winner. Call Paul Joslin to get plaque engraved. Write announcement letter to winner.

Member Assignments for the JRST
Award Article Evaluation

<u>Members</u>	<u>Issue</u>	
1. John R. Staver, Chairperson		
2. Charles Ault	2	8
3. Hugh Baird	4	5
4. Ron Bonnsteter	6	9
5. John Butzow	8	2
6. Eugene Chiappetta	1 7	4
7. Claudia Douglass	5	6
8. Richard Duschl	3	8
9. James Ellis	4	9
10. Willis Horak	2	7
11. Joy Lindbeck	9	5
12. Larry Schafer	1	3
13. Barbara Strawitz	3	7
14. Lynn Talton	1	6

Criteria and Instructions for Ranking the
Articles in an Issue of the Journal of
Research in Science Teaching

You should scan all articles in the Issue you are judging before you begin the reading and rating process. Then rate all articles in the issue in the shortest time span possible by using the following criteria. After all articles are rated you should review the ratings across articles to insure objectivity and reliability.

- | | |
|---------------------------------------|---|
| 1. Significance of Problem (10 pts.) | How important or critical is the problem being addressed by the author(s)? Timelines, relevance and scope are all aspects of this concept. |
| 2. Background (10 pts.) | Is there adequate presentation of related theory and relevant literature. |
| 3. Approach (10 pts.) | How adequate and sound is the approach to the problem? In a research article this will include design and data analysis; In a position paper this includes the logic and nature of the argument used. |
| 4. Significance of Outcomes (10 pts.) | What is the potential to influence thinking and practices in science education? Will the outcomes have an impact? |
| 5. Conclusions (10 pts.) | Are they based on the evidence and then presented in such a way as to address relevant concerns in science education? |
| 6. Uniqueness (10 pts.) | How new is the approach and/or ideas presented in the article? |
| 7. Communication (10 pts.) | Is the article well written? |
| 8. Overall (10 pts.) | What is your general opinion of the article from a broad perspective? |

Record your ratings for each article on a separate rating sheet along with the necessary descriptive information about the article. You should also include comments related to your overall rating.

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JRST AWARD ARTICLE EVALUATION FORM

JRST Volume 22, Number _____, Page #'s _____

TITLE _____

REVIEWER _____

RATING SCALE

POOR	BELOW AVERAGE	ADEQUATE	GOOD	EXCELLENT
1 2	3 4	5 6	7 8	9 10

<u>Reviewer's Rating</u>	<u>Criterion</u>	<u>Comments</u>
1. _____	Significance of Problem	
2. _____	Background	
3. _____	Approach	
4. _____	Significance of Outcomes	
5. _____	Significance of Conclusions	
6. _____	Uniqueness	
7. _____	Communication	
8. _____	Overall	

TOTAL _____

Return to:

Dr. John R. Staver
University of Illinois at Chicago
College of Education
Box 4348
Chicago, IL 60680



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Organized to improve science teaching - through research
Sponsoring the Journal of Research in Science Teaching
Affiliated with AAAS, ASE, ICASE and NSTA.

EXECUTIVE SECRETARY
Dr. William G. Holliday
NARST
The University of Calgary
Calgary, Alberta
Canada T2N 1N4

July 19, 1985

PRESIDENT
Dr. David Butts
Science Education Department
University of Georgia
Athens, GA 30602

Dr. Charles R. Ault, Jr.
School of Education, Room 202
Indiana University
Bloomington, IN 47405

PRESIDENT-ELECT
Dr. James P. Barufaldi
Science Education Center
EOB 340
The University of Texas at Austin
Austin, Texas 78712

Dear Dr. Ault:

IMMEDIATE PAST PRESIDENT
Dr. Ertle Thompson
Ruffner Hall
University of Virginia
Charlottesville, VA 22903

The JRST Award Subcommittee is charged to select the single best article in each volume of the Journal of Research in Science Teaching. As committee members, it is our responsibility to carry out this task for Volume 22. Most members have been assigned two (2) entire issues of the journal to review. Your assignment appears on an enclosure. Also enclosed is a page entitled "Criteria and Instructions. . ." Please read and rate each article in your issues using the delineated criteria and scale. Mark your ratings on the enclosed evaluation forms.

BOARD MEMBERS-AT-LARGE
Dr. Glen Aikenhead (1986)
Faculty of Education
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

Please return to me your completed ratings for each issue as soon as you have finished. In any case, send them to me no later than January 6, 1986, even for those assigned issues 8 and 9.

Dr. Patricia E. Blosser (1987)
Science & Mathematics Education
The Ohio State University
Columbus, OH 43210-1172

In accordance with policy, you should not rate your own articles. If I have assigned you an issue in which you have authored or co-authored an article, please inform me immediately. I will switch you with another rater.

Dr. Jane B. Bowyer (1988)
Education Department
Mills College
Oakland, CA 94613

Dr. Marcia C. Linn (1986)
Lawrence Hall of Science
University of California
Berkeley, CA 94720

Thanks for your effort and cooperation. If you have any questions about the process or task itself, please do not hesitate to contact me.

Dr. Michael J. Padilla (1987)
Science Education Department
University of Georgia
Athens, GA 30602

Dr. Gerald Skoog
National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

John Staver (1988)
College of Education
University of Illinois at Chicago
Chicago, IL 60680

Sincerely,

JOURNAL EDITOR
Dr. Russell H. Yeany
Science Education Research
an Evaluation Lab
Science Education Department
University of Georgia
Athens, GA 30602

John R. Staver
Chairperson,
JRST Awards Subcommittee

RESEARCH COORDINATOR
Dr. Rodney L. Doran (1986)
553 Baldy Hall
SUNY at Buffalo
Amherst, NY 14260



THE
UNIVERSITY
OF
ILLINOIS
AT
CHICAGO

66

College of Education
Curriculum, Instruction, and Evaluation
3252 ECSWB (Morgan at Harrison)
Box 4348, Chicago, Illinois 60680
(312) 996-4508

November 15, 1985

Dr. Charles R. Ault, Jr.
School of Education, Room 202
Indiana University
Bloomington, IN 47405

Dear Dr. Ault:

I am writing to remind all JRST Award Subcommittee members that the deadline for completing your first round evaluations, January 6, 1986, is approaching quickly. If you were assigned early issues, then you may send me your completed ratings at any time. Members who are evaluating issues 8 or 9 will, of course, return their ratings when these issues are received and the articles therein evaluated.

Your ratings will be compiled and first round winners, one article from each issue, will then be evaluated by the committee as soon as possible in order to determine the JRST Award winner for 1985.

I will contact you in mid-January regarding the final round of evaluations. Best wishes for a successful academic year.

Sincerely,

John R. Staver
Assistant Professor
Chairperson, JRST Awards
Subcommittee



College of Education
Curriculum, Instruction, and Evaluation
3252 ECSWB (Morgan at Harrison)
Box 4348, Chicago, Illinois 60680
(312) 996-4508

January 14, 1986

Dr. Charles R. Ault, Jr.
School of Education, Room 202
Indiana University
Bloomington, IN 47405

Dear Kip:

The ratings of each article in each issue of JRST, Volume 22 have been received, tabulated, and analyzed. I have chosen a first round winner from each issue based on the ratings of the members who evaluated each issue. We are now ready to begin the final round of evaluations.

Please find enclosed nine JRST Award article evaluation forms. I have completed the title, issue, and page numbers on each form. These articles are the first round winners. Also enclosed is a sheet which describes the criteria and instructions for rating articles. It is identical to the one you received earlier, but I enclosed another in case you need it.

Read and evaluate each article, with comments as well as numbers. Return your completed ratings to me at the address on the rating form by Monday, February 10, 1986. I will tabulate and analyze your ratings in order to determine a JRST Award winner for Volume 22.

Thanks for your hard work and cooperation throughout this most important task.

Sincerely,

John R. Staver
Assistant Professor
JRST Award Subcommittee Chairperson



Founded in 1928

Organized to improve science teaching - through research

Sponsoring the Journal of Research in Science Teaching

Affiliated with AAAS, ASE, ICASE and NSTA.

EXECUTIVE SECRETARY

Dr. William G. Holliday
NARST
The University of Calgary
Calgary, Alberta
Canada T2N 1N4

NARST AWARDS COMMITTEE (subcommittee of AWARDS COMMITTEE)

Committee Membership:

PRESIDENT

Dr. David Butts
Science Education Department
University of Georgia
Athens, GA 30602

Patricia E. Blosser, Chair
The Ohio State University
Ed. T&P: Science Education
Columbus, OH 43210

PRESIDENT-ELECT

Dr. James P. Barufaldi
Science Education Center
EOB 340
The University of Texas at Austin
Austin, Texas 78712

Dale R. Baker
University of Utah
133 MBH
Salt Lake City, UT 84112

William B. McIlwaine
Millersville State College
Millersville, PA 17551

IMMEDIATE PAST PRESIDENT

Dr. Ertle Thompson
Ruffner Hall
University of Virginia
Charlottesville, VA 22903

Joel E. Bass
Sam Houston State University
Huntsville, TX 77340

Peter A. Rubba, Jr.
Pennsylvania State University
Rm. 160 Chambers Bldg.
University Park, PA 16802

BOARD MEMBERS-AT-LARGE

Dr. Glen Aikenhead (1986)
Faculty of Education
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

Lowell Bethel
The University of Texas-Austin
Science Education Center
Austin, TX 78712

J. Nathan Swift
SUNY-Oswego
Secondary Education Department
Oswego, NY 13126

Dr. Patricia E. Blosser (1987)
Science & Mathematics Education
The Ohio State University
Columbus, OH 43210-1172

Dr. Jane B. Bowyer (1988)
Education Department
Mills College
Oakland, CA 94613

Linda Crow
Houston Community College
System
Houston, TX 77007

Richard L. Williams
University of Victoria
Faculty of Education
Victoria, B.C., CANADA V8W 2Y2

Dr. Marcia C. Linn (1986)
Lawrence Hall of Science
University of California
Berkeley, CA 94720

Dr. Michael J. Padilla (1987)
Science Education Department
University of Georgia
Athens, GA 30602

Dr. Gerald Skoog
National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

John Staver (1988)
College of Education
University of Illinois at Chicago
Chicago, IL 60680

Committee Charge: To select the recipient of the Outstanding Paper Award from papers presented at the previous year's meeting of the National Association for Research in Science Teaching, and to select four papers having practical applications from the classroom teacher. All NARST presenters are eligible to compete but they must submit their papers for consideration.

JOURNAL EDITOR

Dr. Russell H. Yeany
Science Education Research
an Evaluation Lab
Science Education Department
University of Georgia
Athens, GA 30602

Committee Actions: Fifteen papers were submitted for the Outstanding Paper Award. Ten papers were submitted for consideration for the Practical Applications Award. The recipients of these awards are shown on the next page. They will be recognized at the NARST Awards luncheon, Sunday, March 30, in San Francisco.

RESEARCH COORDINATOR

Dr. Rodney L. Doran (1986)
553 Baldy Hall
SUNY at Buffalo
Amherst, NY 14260

Three committee members have terms expiring in 1986: Dale Baker, Linda Crow, J. Nathan Swift. They are to be thanked for their diligent work on the committee.



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EXECUTIVE SECRETARY

Dr. William G. Holliday
NARST
The University of Calgary
Calgary, Alberta
Canada T2N 1N4

March 4, 1986

1986 NARST OUTSTANDING PAPER AWARD

PRESIDENT

Dr. David Butts
Science Education Department
University of Georgia
Athens, GA 30602

"Educational Productivity in Science Education:
Secondary Analysis of National Assessment in Science
Data"

PRESIDENT-ELECT

Dr. James P. Barufaldi
Science Education Center
EOB 340
The University of Texas at Austin
Austin, Texas 78712

Barry J. Fraser, Western Australia Institute of Technology
Herbert J. Walberg, University of Illinois-Chicago Circle
Wayne W. Welch, University of Minnesota

IMMEDIATE PAST PRESIDENT

Dr. Ertle Thompson
Ruffner Hall
University of Virginia
Charlottesville, VA 22903

1986 NARST PRACTICAL APPLICATIONS PAPER (in alphabetical order)
by author(s)

"The Role of Cognitive Factors in Chemistry Achievement"

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Dr. Glen Aikenhead (1986)
Faculty of Education
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

Sarath. Chadran, Western Australia Institute of Technology
David F. Treagust, Western Australia Institute of Technology
Kenneth Tobin, Western Australia Institute of Technology

Dr. Patricia E. Blosser (1987)
Science & Mathematics Education
The Ohio State University
Columbus, OH 43210-1172

"Using Short Forms of Several Classroom Environment Scales
to Assess and Improve Classroom Psychosocial Environment"

Dr. Jane B. Bowyer (1988)
Education Department
Mills College
Oakland, CA 94613

Darrell L. Fisher, Tasmanian College of Advanced Education
Barry J. Fraser, Western Australia Institute of Technology

Dr. Marcia C. Linn (1986)
Lawrence Hall of Science
University of California
Berkeley, CA 94720

" Research Interests of Secondary Science Teachers"

Dr. Michael J. Padilla (1987)
Science Education Department
University of Georgia
Athens, GA 30602

Dorothy Gabel, Indiana University
Stanley L. Helgeson, The Ohio State University
Joesph Novak, Cornell University

Dr. Gerald Skoog
National Science Teachers' Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

"The Development and Validation of a Test of Basic Process Skills"

John Staver (1988)
College of Education
University of Illinois at Chicago
Chicago, IL 60680

Michael J. Padilla, University of Georgia
Linda Cronin, University of Georgia
Meghan Twiest, Bibb County Public Schools(GA)

JOURNAL EDITOR

Dr. Russell H. Yeany
Science Education Research
an Evaluation Lab
Science Education Department
University of Georgia
Athens, GA 30602

RESEARCH COORDINATOR

Dr. Rodney L. Doran (1986)
553 Baldy Hall
SUNY at Buffalo
Amherst, NY 14260

59TH ANNUAL MEETING IN SAN FRANCISCO, CALIFORNIA, MARCH 28-31, 1986
SEND OFFICIAL CORRESPONDENCE TO THE EXECUTIVE SECRETARY (TELEPHONE 403-220-7483)

Calendar of Events for Committee

- MARCH/APRIL Present awards at annual meeting. Announce a call for papers for the 1987 competition. Papers are to be sent to the committee chair. Incoming president appoints new members to committee. If possible, committee should meet briefly before annual meeting ends.
- MAY Send a "Call for Papers" announcement to Glenn Markle* to be included in July and August NARST newsletters.
- Send letter to committee members, describing their duties.
- JUNE- SEPTEMBER Chair waits for NARST members to send their papers in for judging. Deadline for receipt of papers has been set for September 15 in order to provide sufficient time for chair to process papers and mail them to committee for reading in early October.
- OCTOBER Coded papers are mailed to committee members who have been sent a letter telling them the papers are being sent. Individual tally sheets and summary score sheets are included with each paper set.
- Report is prepared for Fall board meeting.
- OCTOBER- DECEMBER Committee members read and evaluate papers.
- JANUARY January 15 is deadline for committee members to return individual tally sheets and summary score sheets to committee chair.
- FEBRUARY Tally the results.
Telephone committee members who have not responded to prod them into completing their task.
- MARCH Send letter of congratulations to award winners.
Have award plaques made.
Send report to committee concerning recipients of awards.
Send report to president, president-elect, and executive secretary.
- Write report for board meeting.

*or newsletter editor (when named)

REPORT OF AD HOC COMMITTEE ON INTERNATIONAL ISSUES

MEMBERSHIP

Patricia E. Blosser, Chair
The Ohio State University
ETP: Science and Mathematics Education
Columbus, OH 43210
614-422-6717

Glen Aikenhead
University of Saskatchewan
Faculty of Education
Saskatoon, Saskatchewan, CANADA S7N 0W0
306-966-7563

Barry Fraser
Western Australia Institute of Technology
Education
South Bentley, WESTERN AUSTRALIA 6102

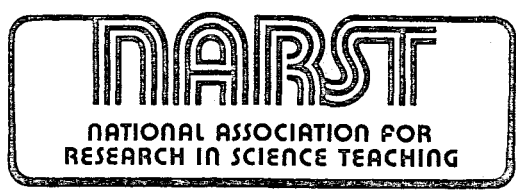
Karl Frey
Institute for Science Education
Olshausenster. 60-60
D-2300 Kiel
Federal Republic, GERMANY

Arthur L. White
The Ohio State University
ETP: Science and Mathematics Education
Columbus, OH 43210
614-422-6717

Glenn Markle, ex-officio
University of Cincinnati
Department of Education
Cincinnati, OH 45221
513-729-1834

COMMITTEE CHARGE

To continue examining how NARST can better respond to international issues in science education.



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Dr. William G. Holliday
NARST
The University of Calgary
Calgary, Alberta
Canada T2N 1N4

NARST Ad Hoc Committee on International Issues

PRESIDENT
Dr. David Butts
Science Education Department
University of Georgia
Athens, GA 30602

Committee Charge: To continue examining how NARST
can better respond to international issues in
science education.

PRESIDENT-ELECT
Dr. James P. Barufaldi
Science Education Center
EOB 340
The University of Texas at Austin
Austin, Texas 78712

Committee Membership:

Patricia E. Blosser, Chair
The Ohio State University
Ed.T&P: Science Education
Columbus, OH 43210

IMMEDIATE PAST PRESIDENT
Dr. Ertle Thompson
Ruffner Hall
University of Virginia
Charlottesville, VA 22903

Glen Aikenhead
University of Saskatchewan
Faculty of Education
Saskatoon, SAS
Canada S7N 0W0

Karl Frey
Institute for Science Education
Olshausenster. 60-60
D-2300 Kiel
Federal Republic, GERMANY

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Dr. Glen Aikenhead (1986)
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Dr. Patricia E. Blosser (1987)
Science & Mathematics Education
The Ohio State University
Columbus, OH 43210-1172

Barry Fraser
Western Australia Institute of
Technology
Education
South Bentley, WA 6102

Arthur L. White
The Ohio State University
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Columbus, OH 43210

Dr. Jane B. Bowyer (1988)
Education Department
Mills College
Oakland, CA 94613

Dr. Marcia C. Linn (1986)
Lawrence Hall of Science
University of California
Berkeley, CA 94720

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Department of Education
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Dr. Michael J. Padilla (1987)
Science Education Department
University of Georgia
Athens, GA 30602

Dr. Gerald Skoog
National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

The committee produced one column for the NARST newsletter.
Additional columns are projected, when a schedule of dates
for newsletter publication is identified. Several committee
members participated in the science education research meeting
in Trinidad.

John Staver (1988)
College of Education
University of Illinois at Chicago
Chicago, IL 60680

The committee will meet again in San Francisco and attempt to
identify actions NARST might take that relate to the committee's
charge. At present, there are no new items for consideration.

JOURNAL EDITOR
Dr. Russell H. Yeany
Science Education Research
an Evaluation Lab
Science Education Department
University of Georgia
Athens, GA 30602

The activities of the committee are such that a calendar of
committee activities has not been developed.

RESEARCH COORDINATOR
Dr. Rodney L. Doran (1986)
553 Baldy Hall
SUNY at Buffalo
Amherst, NY 14260

REPORT FROM EXECUTIVE SECRETARY

GLENN C. MARKLE

1. Membership

As of March 3, 1986, 307 regular members and 36 student members had paid their dues. In addition, one "spouse membership" had been registered. Conversations with Bill Holliday indicated that these numbers are in line with previous experience and that they should increase substantially by the end of the annual meeting.

The computer disks received from Bill Holliday at the beginning of my term included approximately 950 names of current and past members. These names have been divided into three sets: members who have renewed their membership for 1986 (n = 343); members who paid dues in 1985 or 1986 (n = approximately 675); and former members or non-members who did not pay dues in either 1985 or 1986 (n = approximately 300).

My intention is to mail letters to the 300 individuals in the last set inviting them join the Association. Members in 1985 or 1986, the second set above, received the Newsletter which informed them of their current membership status and included an invitation to renew their membership if they have not yet done so.

I believe members of the board can have a positive impact on size of the NARST membership by encouraging potential members to join the Association. Active science educators who are not currently members of NARST and science education graduate students represent sources of potential members. We should make a concerted effort to contact each member of these groups and individually and personally invite them to become members. As Executive Secretary, I am prepared to send a personal letter of invitation to join NARST along with the necessary application forms to any potential member whose name and address is provided to me.

2. Directory

I will distribute a draft Directory of Members at the spring meeting of the board. If the format is approved, the Directory will be available for distribution by mid-April. We need to consider how the distribution is to be accomplished --- is the directory to be sold or given to members? who, outside the

Association, will we willingly "give" copies of the directory and for what purposes? should we distribute a directory without some sort of release from the individual members listed in the directory?

3. Setting Up Shop

Thanks to the cooperation and support of Dave Butts, Jim Barufaldi, Bill Holliday, Ted Fowler, Piyush Swami, Peggy Bareswilt (my secretary), and Toniann (my wife), the NARST Executive Secretary's office is set up and functioning at the University of Cincinnati. It would be very difficult to overstate the effort that has been expended to manage the transfer of responsibilities for providing the services of the executive secretary from one institution to another or to estimate the energy that will be required to accomplish the necessary tasks ahead of us. Bill Holliday indicated that he spent approximately 20 hours per week on NARST-related activities. During the past two months I kept a log of the time I and others at the University of Cincinnati needed to devote to Association business in order to simply "stay afloat." The entries into the log suggest a minimum of sixty-five hour per week!

How has this time been used? Before we could begin to operate, we needed to transfer the membership list from one type computer system to another which proved to be a time consuming and frustrating job. While we were organizing the files, members were paying their dues which had to be recorded in some fashion (recording and depositing more than forty check per week required substantial amounts of time); the personal at the University of Cincinnati who work in our financial offices needed to be made aware of the "service status" of our account so that request that are somewhat unusual could be handled (for example, a request for a \$3,000 check in a day or so with no invoice or other documentation can cause a controller at a state institution fits); requests for mailing labels which were not readily available were acted upon; mailing labels for JRST were needed in late January and an updated list was needed in late February (February was an especially short month this year!); letters of response were mailed to some very unusual requests (a junior high student from New York who wanted information about plate tectonics, a graduate student who wanted information on available positions in science education, a member asking me for a review of the literature on a specific topic); letters of response were mailed to some more reasonable requests (a teacher who wanted a copy of a paper presented at last year's meeting, a foreign member who wanted permission to distribute copies of a Journal article in his classes); a Newsletter was

edited (thanks to Ted Fowler who assumed major responsibility for this task); and numerous telephone requests were answered.

I do not present the above to bemoan the fact that I accepted the responsibilities of Executive Secretary. Thus far, the experience has been, by and large, a pleasant one. The cooperation from colleagues within the University of Cincinnati, from members of the Board (especially when travel expense checks for the fall meeting were so long in coming), and from the people at Wiley Publishing Company who depend upon us for mailing labels has been very gratifying. The point is that the responsibilities of the Executive Secretary are quite varied and even more challenging than I believed them to be two short months ago. I think we are making good progress in responding to these challenges and request your continued help and support in the coming months. If you have suggestions for improving the services provided by the executive secretary, please give me the benefit of your advice. And, if I do stumble in meeting reasonable requests, please bear with me and keep in mind that I and numerous others at the University of Cincinnati are doing our best to ensure that the day-to-day business of the Association is handled in the best possible way.

Memorandum


Department of Curriculum Studies
College of Education (3025)
Saskatoon, Saskatchewan
306-966-7558
966-7560

TO: Pat Blosser and Jim Barufaldi
FROM: Glen Aikenhead
SUBJECT: NARST Newsletter Editor Search Committee
DATE: February 28, 1986

Dave Butts wrote you to ask if you would serve on an ad hoc search committee to find and recommend someone for the position of Newsletter Editor for NARST. As chair of the committee, I have put together a tentative outline of our responsibilities, and I have composed a page of suggestions for the Newsletter Editor to consider for future editions of the Newsletter (suggestions developed last year by the NARST Publications Advisory Committee).

Please critique my initial attempt at outlining a job description, and please scrutinize the other ideas. If your reaction could arrive here by Friday March 21, I'll be able to prepare a full report prior to going to NSTA March 25. Otherwise, we'll have to put our collective heads together in San Francisco and prepare a report for the March 28 Executive meeting. My telephone number at work, in case you wish to call, is 306-966-7543, and evenings at home, 306-373-9638.

I'm looking forward to hearing from you soon.



Glen S. Aikenhead
Science Education

GA/mlt

Enclosures (2)

cc: Dave Butts, Pres. NARST ✓

NARST NEWSLETTER EDITOR

I. Job Description

- A. Appointed by the NARST Board for a two-year renewal term.
- B. Prepare four issues of the NARST Newsletter per year.
 - 1. Content will include communication from the NARST Executive (eg: a President's message, Executive-Secretary's reports, call for papers, Board decisions)
 - 2. Content will also include columns (short pieces by NARST members) that would make the Newsletter a valuable and rich information source for NARST members. Suggestions are attached.
 - 3. Take the initiative to contact potential contributors (regular and one-time) and edit the material they contribute.
 - 4. Write information columns as appropriate.
- C. Send each prepared issue to the Executive-Secretary who will take responsibility for printing and mailing.
- D. Work within the yearly budget set by the Board.
- E. Prepare a brief report for each executive meeting (usually twice a year) informing the Board of the status and development of the Newsletter. This may include suggestions to the Board for Newsletter policies.

II. Call for Nominations

Following Board approval of the Newsletter Editor job description, a call for nominations will be announced at the San Francisco NARST meeting and will appear in the first Newsletter published after the annual meeting. The call will include the job description, a note on the current budget and the time commitment anticipated (a 3 credit teaching equivalent), and to whom one should send the proposal for editor. Deadline - September 30, 1986.

III. Recommendation

The ad hoc search committee will prepare a recommendation to the Board by November 15, 1986.

IV. Appointment

The Board will make a two-year renewal appointment beginning as soon as it is feasible for the editor to begin, but no later than May, 1987.

Suggestions for Newsletter Content

In addition to the Editor's own ideas for revitalizing the Newsletter, the following suggestions are made:

- A. the Newsletter print short summaries of conferences attended by a NARST member (written up by an attending member) in order to keep other NARST members abreast of current developments. The responsibility to encourage submissions belongs to the Newsletter Editor and the Board. See, for example, the September 1985 issue containing a summary of the Brisbane International Symposium on World Trends in Science Education; and the November 1985 issue containing information on the NARST International Committee and the First Inter-American Seminar on Science Education.
- B. the Newsletter serve as a bulletin board to facilitate collaborative research, particularly international collaboration. NARST members could invite collaboration by stating the nature of the collaboration sought. Also, NARST members could print a message indicating their willingness to collaborate with other researchers, indicating areas of interest and expertise.
- C. the Newsletter print the titles (table of contents or selections thereof) of non-American publications related to research in science teaching; eg. European Journal of Science Education, Studies in Science Education, and the Australian journal.
- D. the Newsletter serve as the medium for NARST committees to elicit feedback on issues under discussion. A tear-off page in the Newsletter would act as a survey of NARST members. The results of such surveys could be published in the next issue.
- E. the Newsletter NOT print research columns written by Board members because such columns would have far greater impact if they appeared in science teachers' journals or science education research journals. One exception would be news from Washington on research funding.
- F. the Newsletter print job placement information.

REPORT OF NARST PRESIDENT

March 1986

During this year, NARST members have been active. Because of the leadership of our excellent committee chairmen, our committees have completed many tasks we have referred to them for thoughtful consideration and reflective review. I deeply appreciate each of the chairmen, their members and their hard work. I support these recommendations for our action.

- 1) As noted in his comments on "membership," each of us should share in contacting at least 30 of the 300 "drop-outs."
- 2) Refer action on Directory to Publications Advisory Committee.

Activities in which NARST has been recognized as a stakeholder include:

1. NARST/NSTA Symposia

With the assistance of Bob Howe of Ohio State University and the ERIC Center, we have developed a symposium on "What Research on Effective Schools Has to Say to the Science Teacher." These symposia have been presented:

- at the July meeting of the NSTA CAG Conference, Washington, D.C.--about 75 participants,
- at the October NSTA Area Convention in Wichita, Kansas--about 200 participants,
- at the November NSTA Area Convention in Hartford, Connecticut--about 55 participants,
- at the December NSTA Area Convention in New Orleans--about 150 participants,
- at the Orlando meeting of the National Association of Biology Teachers--30 participants,
- and at the NSTA National Convention in San Francisco.

2. NARST Presence on NSTA Annual Program

With NSTA's cooperation and ERIC's support, we scheduled the NARST-NSTA Special Lecture with Paul DeHart Hurd as our speaker. Other scheduled NARST events on the San Francisco NSTA Program included:

- Two symposia,
- Four one-hour papers,
- Three one-hour poster sessions.

3. NARST Focus on Science Textbooks

We are cooperating with the Good-Shymansky project on Criteria for Analysis and Selection of Science Textbooks. The initial work conference was held in Washington in October. A two-hour symposium was scheduled at the NSTA meeting here in San Francisco.

We were asked by the American Publishers Association to join with NCTM in organizing a conference on "Using Research to Improve Science and Mathematics Instructional Materials." The conference was held on March 17-18, 1986 in Atlanta. In addition, I have been asked to address their School Division meeting in Washington in January 1986.

4. NARST and the National Crisis

The discussion of our current concerns in science education continues. As an invited participant in AAAS's conference, "The School Science Forum," in Washington and the Oak Ridge University Institute conference in Atlanta, NARST was again recognized as one of the stakeholders interested in the improvement of science instruction.

5. NARST and Testing Issues

With the successful negotiations of Jim Shymansky with Delta, we have initiated the development of a monograph to help science teachers construct tests that are useful in monitoring the progress of their students and helping them provide feedback to these students. Rod Doran is heading this project with our Advisory Board of five professionals. ERIC has agreed to assist in the printing and disbursement of the monograph.

It has been a busy and exciting year. Thank you for this opportunity to share with you in this time of challenge.

David P. Butts

NATIONAL SCIENCE TEACHERS ASSOCIATION
1742 Connecticut Avenue, N. W.
Washington, D. C. 20009

TO: President of NSTA

FROM: President of NARST

RE: Quarterly Report

July 1 _____ Oct. 15 _____ Jan. 15 _____

March 10 xx 19 86 May 1 (optional) _____

I. MEMBERSHIP ACTIVITIES

Membership in NARST has continued to show very positive gains. With an increase of more than 80 members this year, our total membership is near 650.

II. MEETINGS ATTENDED AND ACTIVITIES CONDUCTED

NARST has jointly sponsored with NSTA symposia on "Research on Effective Schooling: What it Says to the Science Teacher." This symposia has been presented by Dave Butts and Robert Howe at the three area conferences (Wichita, Hartford, and New Orleans), at the CAG meeting as part of the summer Board meeting, at the Caribbean conference for science education in Trinidad, and at the NSTA national conference in San Francisco. It is expected that nearly 700 people will have participated in this symposium. NSTA conference participants are really interested in ways research can influence their classroom practices.

III. OTHER CONTACTS MADE (Correspondence, telephone, personal)
(Attach copies if pertinent)

We supplied copies of "Research Matters" to each of the CAG Newsletter editors with permission that they could be printed. Nearly 20 have sent copies of the Newsletter when the articles have been used.

IV. RECOMMENDATIONS

None at this time.

V. COMMENTS BY MEMBERS

Positive Feedback

Many positive letters from convention participants on the Symposia

Negative Feedback

VI. PROBLEMS ENCOUNTERED -- RECOMMENDED SOLUTIONS

None

VII. AWARDS, PUBLICATIONS, etc.

N/A

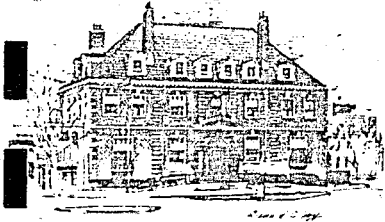
VIII. BUDGET EXPENDITURES TO DATE

N/A

(Signature) David P. Butts

NATIONAL SCIENCE TEACHERS ASSOCIATION

1742 Connecticut Avenue, NW, Washington, DC 20009 (202) 328-5800



B. Aldridge, Executive Director

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University of Georgia, Athens
- Harold Pratt, NSSA
Jefferson County Public Schools
Breckenridge, CO
- Marjorie Gardner, SCST
University of California, Berkeley

MEMORANDUM

TO: NSTA Board of Directors
 FROM: Jan Barrett *Jan*
 DATE: February 13, 1986
 SUBJ: Reports for Board Book

In order to incorporate your final reports into the Board Book for the San Francisco meeting, I will need to receive them by February 26th. (Disregard if you have already sent yours.) I plan to mail the Board Books to you during the first week of March.

Minutes of the January Executive Committee Meeting have now been reviewed by the committee and are being sent to you under separate cover.

Jerry asked me to remind you that agenda items were due to him by February 17th.

I'm looking forward to seeing you soon.

Write report

An Affiliate of the American
 Association for the
 Advancement of Science

NATIONAL SCIENCE TEACHERS ASSOCIATION
1742 Connecticut Avenue, N. W.
Washington, D. C. 20009

TO: President of NSTA

FROM: President, NARST

RE: Quarterly Report

July 1 _____ Oct. 15 _____ Jan. 15 x
March 10 _____ 19 _____ May 1 (optional) _____

I. MEMBERSHIP ACTIVITIES

Membership in NARST is up to about 600.

II. MEETINGS ATTENDED AND ACTIVITIES CONDUCTED

NARST/NSTA Symposia were held at each of the three area conventions with excellent participation of more than 500 NSTA convention participants. Followup mailings on the "Research on Effective Schooling" sessions were mailed to each participant.

III: OTHER CONTACTS MADE (Correspondence, telephone, personal)
(Attach copies if pertinent)

We supplied copies of "Research Matters" to each of the CAG Newsletter editors with permission that they could be printed. Nearly 20 have sent copies of the Newsletter when the articles have been used.

IV. RECOMMENTATIONS

None at this time.

V. COMMENTS BY MEMBERS

Positive Feedback

Many positive letters from convention participants on the Symposia

Negative Feedback

VI. PROBLEMS ENCOUNTERED -- RECOMMENDED SOLUTIONS

None

VII. AWARDS, PUBLICATIONS, etc.

N/A

VIII. BUDGET EXPENDITURES TO DATE

N/A

(Signature) David P. Butts



Triangle
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for
Science
and
Technology
Education

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Chairpersons

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National Science Teachers Association

Industry

Robert C. Forney
E. I. DuPont de Nemours & Company

Science

Glenn T. Seaborg
University of California-Berkeley

Steering Committee

Joseph Blanding
United Auto Workers

Barbara E. Bontemps
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General Electric Company

E. Joe Piel
SUNY-Stony Brook

Walter Purdy
Edison Electric Institute

Jack Wilson
*American Association of
Physics Teachers*

March 10, 1986

MEMO

To: Triangle Coalition Organizational Representatives

From: John M. Fowler, Director

Subject: National Science Week Packet (Last Call)

The packet of elementary level classroom materials for National Science Week 1986 is in production. We expect to begin to distribute it early in April. I enclose a brief abstract on each of the eight activities contained in it.

As I reported in a previous mailing on January 30, 1986, we hope that most of the printed 10,000 copies of the packet can be delivered to teachers through Triangle Coalition member organizations and local alliances. Please see if the organization you represent has a group of teachers who would like to have them. We will ship them to you in bulk for you to distribute.

Please get your order to us as soon as possible. We will need all bulk orders in our hands by March 31.

We also enclose, for your information, three press releases that have just gone out--big news! We'll have more details on 1986 Triangle Coalition activities soon.

National Science Week 1986

Elementary Science/Technology Packet

The packet includes the eight activities described below.

Science and Technology in Your Life

This activity sets the stage for National Science Week. It is designed to help students discover the difference between science and technology and the relationship that exists between them in their everyday lives. A simple experiment with a balloon introduces the scientific concepts of expansion and contraction of materials due to temperature changes. Thermometers are introduced as the technology that applies these scientific principles.

Inventions All Around Us

In this activity, children expand their understanding of inventions and the process of inventing. An exhibit is established in the classroom as an outgrowth of National Science Week poster/bulletin board activities. As an option, a class can set up an exhibit in the foyer of the school and can ask the entire school to contribute parts to it.

Up, Up, and Away: A Local Balloon Launch

This activity is designed to build community interest in National Science Week. Students prepare and launch helium-filled balloons from the school. Following the launch, cards attached to the balloons requesting return by finders are sent back so that students can record on state maps where the balloons were found. Concepts and skills related to wind patterns, mapping, and air pressure are developed in this activity. (Note: These individual launches, where they occur, will receive information from the National Balloon Launch.)

Energy and Warmth

This activity involves students in a discrepant event which helps them to develop a better understanding of how color affects the rate that heat is absorbed or radiated from objects. From these experiences and questions in the activity students identify examples of how this science knowledge is utilized in the technology of everyday living.

Technology Changes Our Lives

In this activity, students define change with technology. They experience change with an inappropriate use of technology when a television is turned on during a routine seat assignment. After observing the changes in their classroom relating to the introduction of this technology, the class discusses appropriate and inappropriate uses of technology, positive and negative consequences of certain technologies, and changes that technology makes in their lives.

Heartbeats

Students locate and use pulse points to monitor their heart rates. They determine the kinds of activities that affect human heart rates and ways to control or to change the effects of those activities. Students take a 10-second pulse count and convert it to beats per minute. They also predict how heart rates will change during activities and conduct simple tests to prove or to disprove their predictions.

The Human Computer

Through role-playing and simulation, students describe how a computer operates in terms of input, processing, and output of information. Individual students simulate vital parts of a computer in order to complete a set of simple arithmetic problems. Differences between using computers and completing similar processes without computers are discussed as well as the impact of computers on our lives.

Plant Detectives

While simulating a meeting of plant scientists, students test the vigor of plant growth by watering plants with various solutions. Working in groups, student scientists plant one type of vegetable seed. They care for, measure, and chart the growth of the seedlings. Then students make inferences about the effects of various solutions--such as salt, detergent, bleach, fertilizer, vinegar, tap water, etc.--on plant growth. They test those inferences and report the results to a gathering of the student plant scientists.



Triangle
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Education

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Science
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FOR IMMEDIATE RELEASE

CONTACT: John M. Fowler
202-328-5840
Kathleen Holmay
301-588-6168

MARY HATWOOD FUTRELL NAMED TRIANGLE COALITION CHAIR

(Washington, D.C., March 6, 1986). . . Mary Hatwood Futrell, President of the National Education Association since 1983, has been named the new Chairperson for Education of the Triangle Coalition for Science and Technology Education. The announcement was made by the Triangle Coalition Steering Committee at its February 25 meeting in Washington, D.C.

Futrell will join Glenn T. Seaborg, Nobel Laureate and University Professor of Chemistry at the University of California-Berkeley, who is Triangle Coalition Chairperson for Science and Engineering, and Robert C. Forney, Executive Vice President of E.I. DuPont de Nemours and Company who is Triangle Coalition Chairperson for Business, Industry, and Labor.

For the last 7 years, Futrell has clearly delineated the challenges and triumphs of American education in her opinion page columns, as well as through hundreds of public appearances and interviews. With her dynamic style and keen insight, she has kept education in the public eye.

"I am very enthusiastic about accepting this key role in the Triangle Coalition, because the Coalition lets the concerned parties, the organizations which are leaders in education, science, engineering, and business, speak productively to each other.

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"The Triangle Coalition provides an unusual opportunity for educators to work with key groups of business and industry as well as with pure and applied scientists. We need to better understand both our shared problems and the joint efforts we can take to solve those problems. Formulating strong cooperative strategies via the Triangle Coalition will let us save valuable time and precious human resources.

"Today, too many graduating high school seniors don't know about great American technological accomplishments. They can't share in the excitement of scientific discoveries. We need to understand that tomorrow's scientist is not suddenly made at the university level but is the product of high quality science teaching throughout grade school and high school.

"And in many ways more important is the fact that all citizens of the future will need to function in an environment where science and technology are vitally important."

With the recent addition of the National Education Association, the Triangle Coalition now boasts a membership of 43 educational, business, and scientific and engineering groups. Triangle Coalition members accept that high quality education in science and technology for all students is the combined responsibility of educators, scientific and technological professions, and business and industry. The Triangle Coalition is developing and implementing plans to help the nation's teachers and schools improve science and technology education.

Departing from the Triangle Coalition as its first Chairperson for Education is Alice Moses who has accepted a post at the National Science Foundation as Associate Program Director for the Teacher Enhancement Program. Moses is also a past president of the National Science Teachers Association and a former elementary science teacher at the University of Chicago Laboratory School. She was instrumental in helping to form the Triangle Coalition and has kept its members sensitive to the needs of elementary schools.

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Triangle
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Science
and
Technology
Education

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Persons

Location
John J. Moses
National Science Teachers Association

Industry
Robert C. Forney
DuPont de Nemours & Company

Institution
Robert T. Seaborg
University of California-Berkeley

Organizing Committee

Joseph Blanding
United Auto Workers

Barbara E. Bontemps
General Motors U.S.A., Inc.

Robert Capper
National Council of Chief State School Officers

Robert B. Champagne
American Association for the
Advancement of Science

Robert Chapman
American Chemical Society

Robert Crosswhite
National Council of Teachers
of Mathematics

Robert D. Fisher
National Association of American Societies
for Experimental Biology

Robert Gowen
Institute of Electrical and
Electronics Engineers

Josephine King
National Association of
Secondary Teachers

Robert McClelland
DuPont de Nemours & Company

William McGraith
General Electric Company

Robert Piel
NY Stony Brook

Robert Purdy
General Electric Institute

Robert Wilson
National Association of
Physics Teachers

FOR IMMEDIATE RELEASE

CONTACT: John M. Fowler
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Kathleen Holmay
301-588-6168

TRIANGLE COALITION RECEIVES \$250,000 GRANT

(Washington, D.C., March 5, 1986)...The 1-year-old Triangle Coalition for Science and Technology Education, which is emerging as a unique force in the struggle to improve U.S. science and technology education, has been awarded a \$250,000 grant from the Carnegie Corporation of New York.

The Triangle Coalition has brought together a diverse group of organizations, leaders in education, business, industry, labor, and pure and applied science who share a commitment to using their combined resources to improve science and technology education for all students.

The centerpiece of the Triangle Coalition effort is a plan to work with the growing number of local action groups--local alliances--forming around the country on a community, regional, or state level. A local alliance can join the efforts of scientists, engineers, and educators with representatives from business, labor, and community service groups in ways that support better education.

The Carnegie Foundation expressed its enthusiasm for this unique national/local cooperation for American education by supporting an extensive 2-year Triangle Coalition local alliance program.

-more-

During the next 2 years the Triangle Coalition will identify local alliances, will link existing local alliances, and will encourage the formation of many new ones across the country. Efforts will concentrate on connecting science-rich groups with science-needy schools and teachers. Activities will aim to involve community leaders so that individual local alliances will develop political influence which can be used to effect needed change.

The Triangle Coalition will publish a newsletter for local alliances. It will also establish a clearinghouse of current information on existing alliances, which will be made widely and readily available, and will compile and will distribute information through local alliances about national programs which are available to provide direct assistance to schools and science teachers.

Another important facet of the program is to hold five regional conferences on local alliances during 1986 and 1987. Participating in these conferences will be consultants who are experienced with local alliances. These consultants will be available to help in setting up new alliances.

The mandate for this Triangle Coalition effort came from a report on the first national Conference on Local Alliances for Science and Technology Education which was held in July 1985.

All Triangle Coalition work is directed toward increasing scientific and technological literacy of Americans by concentrating on precollege education. Its member groups agree that long-standing problems in American science education have been well documented. Consequently, Triangle Coalition programs are action and results oriented.

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For more information, contact John M. Fowler, Director, Triangle Coalition for Science and Technology Education, c/o National Science Teachers Association, 1742 Connecticut Avenue, N.W., Washington, D.C. 20009.



Triangle
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Technology
Education

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FOR IMMEDIATE RELEASE

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TRIANGLE COALITION ANNOUNCES NEW MEMBERS

(Washington, D.C., March 5, 1986). . .The Acoustical Society of America,

American Nuclear Society, Council for Elementary Science International, Hewlett-Packard Company, Native American Science Education Association, and National Education Association have recently joined a growing list of the nation's prestigious professional societies and industries as members of the Triangle Coalition for Science and Technology Education.

Founded 1 year ago, the Triangle Coalition for Science and Technology Education exists to improve precollege science and technology education for all students.

The Triangle Coalition is concerned that too few students have been receiving regular, high-quality science and technology education, and it recognizes the validity of several recent, major reports documenting the pending tragedy of our failure to produce a scientifically literate population.

The "triangle" of the Coalition describes its diverse and unique membership which includes scientific and engineering societies, industry, business, labor, and education organizations.

The major Triangle Coalition emphasis is to identify existing local efforts, or "local alliances," where science and technological education is enriched by joint projects involving educational, business, and scientific groups. A handbook, which gives information on organizing and operating local alliances and suggestions of activities and funding strategies, is part of this effort. A campaign to promote the establishment of new alliances is also underway.

Core support for the Triangle Coalition's central office staff and member meetings comes from member assessments which are scaled to annual budgets. Staffing is purposely minimal so that member organizations can make significant, decentralized contributions to Triangle Coalition projects. External Triangle Coalition support has also come from the Johnson Foundation, E.I. DuPont de Nemours and Company, Edison Electric Institute, Worldbook-Childcraft, and National Science Foundation.

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A list of Triangle Coalition members follows.

Chairpersons

Education

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National Science Teachers Association

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E. Joe Piel
SUNY-Stony Brook

Walter Purdy
Edison Electric Institute

Jack Wilson
American Association of
Physics Teachers

MEMBERS AS OF MARCH 5, 1986

- ACOUSTICAL SOCIETY OF AMERICA
- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
- AMERICAN ASSOCIATION OF PHYSICS TEACHERS
- AMERICAN ASTRONOMICAL SOCIETY
- AMERICAN CHEMICAL SOCIETY
- AMERICAN GEOLOGICAL INSTITUTE
- AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES
- AMERICAN INSTITUTE OF PHYSICS
- AMERICAN MEDICAL ASSOCIATION
- AMERICAN NUCLEAR SOCIETY
- AMERICAN PHYSICAL SOCIETY.
- AMERICAN SOCIETY OF MECHANICAL ENGINEERS
- AMOCO CORPORATION
- APPLE COMPUTER, INC.
- ASSOCIATION FOR THE EDUCATION OF TEACHERS IN SCIENCE
- CHEVRON, U.S.A., INC.
- COUNCIL FOR ELEMENTARY SCIENCE INTERNATIONAL
- COUNCIL OF CHIEF STATE SCHOOL OFFICERS
- COUNCIL OF STATE SCIENCE SUPERVISORS
- EDISON ELECTRIC INSTITUTE
- E.I. DuPONT de NEMOURS AND COMPANY
- EXXON RESEARCH AND ENGINEERING COMPANY
- FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY
- FORD MOTOR COMPANY FUND
- GENERAL ELECTRIC COMPANY
- HEWLETT-PACKARD COMPANY
- INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
- INTERNATIONAL BUSINESS MACHINES CORPORATION
- INTERNATIONAL TECHNOLOGY EDUCATION ASSOCIATION
- JUNIOR ENGINEERING TECHNICAL SOCIETY, INC.
- MERCK AND COMPANY, INC.
- NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING
- NATIONAL ASSOCIATION OF ACADEMIES OF SCIENCE
- NATIONAL ASSOCIATION OF BIOLOGY TEACHERS
- NATIONAL ASSOCIATION OF GEOLOGY TEACHERS
- NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS
- NATIONAL INSTITUTE FOR WORK AND LEARNING
- NATIONAL SCIENCE SUPERVISORS ASSOCIATION
- NATIONAL SCIENCE TEACHERS ASSOCIATION
- NATIVE AMERICAN SCIENCE EDUCATION ASSOCIATION
- SCIENCE SERVICE, INC.
- TECHNICAL EDUCATIONAL RESEARCH CENTERS