

NATIONAL ASSOCIATION FOR
RESEARCH IN SCIENCE
TEACHING

EXECUTIVE BOARD
FALL MEETING

December 12, 1985

New Orleans, LA

NATIONAL ASSOCIATION FOR RESEARCH IN
SCIENCE TEACHING

Fall Meeting, Executive Board
New Orleans, LA

December 12, 1985

PROPOSED AGENDA

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1985 Spring Meeting of the
National Association for Research in Science Teaching
French Lick Springs, Indiana
April 14, 1985

MINUTES

A. Opening Remarks by the President

The 1985 spring meeting of the National Association for Research in Science Teaching was held at the French Lick Springs Tennis and Golf Resort, Indiana, April 15-18, 1985. Dr. Ertle Thompson welcomed everybody to the meeting. It was announced at this time that an unofficial meeting of the board would be held in Dave Butts' suite, 9:15 p.m., Wednesday, April 17, 1985.

B. Board Members (Old and New) in Attendance

Dr. Patricia Blosser
Dr. Jane Bowyer
Dr. David Butts
Dr. Linda DeTure
Dr. Rodney Doran
Dr. William Holliday

Dr. Ann Howe
Dr. Michael Padilla
Dr. John Staver
Dr. Ertle Thompson
Dr. Russell Yeany

Dr. Glen A. Kerkendall

C. Approval of Minutes Describing the 1984 Spring Meeting of the Board

Motion: Moved that the minutes for the 1984 fall board meeting, with minor corrections, be approved. Yeany, Doran. Motion carried.

D. Report of the President

Dave Butts described the highlights of the 1985 program. He announced that 114 papers were accepted with only two cancellations. In addition, eleven symposiums and four paper sets were accepted for this meeting. Moreover, he expressed his pleasure with the fact that only three of the 45 discussants had not received their papers by the March deadline described in his letter to participants at the meeting. A discussion about the program followed with a general sense of approval and appreciation from other board members focusing on the efforts of Dave Butts and his program committee.

E. Policy Advisory Committee

Ann Howe described her committee's further work on the policy and procedures manual. She announced that Jack Renner and Stan Helgeson will be working on this project. Second, she announced that Dave Butts made a number of recommendations concerning our current committee structure and reported to the board that the policy advisory committee would be examining his recommendations in the next few days and reporting back at the unofficial meeting on Wednesday evening.

F. Report of the Executive Secretary1. Spouse-Membership Option

Motion: Moved that the spouse-membership option be available to the membership beginning in 1986. The charge imposed for this option for 1986 will be \$14. Howe, DeTure. Motion carried.

2. American Heritage Publishing

Motion: Moved that NARST cooperate with the American Heritage Publishing Corporation in this one venture concerning their request for six sets of labels as described in their letter of January 30, 1985, without prejudice to further decisions concerning the distribution of our address labels to outside people. Aikenhead, Padilla. Motion carried.

Motion: Moved that policy concerning the distribution of our address labels be referred to the policy advisory committee for their consideration. Butts, Doran. Motion carried.

3. Placement Information for Members

It was generally decided that no change in our policy concerning the distribution of placement information and materials should be made at this time.

4. Rolling Subscription System

The option of having a rolling subscription system used by the executive secretary was discussed in conjunction with our general policy of recommending such issues to the policy advisory committee. Ann Howe had recommended to Bill Holliday that this issue be brought directly forward to the board without attention by the policy advisory committee.

Motion: Moved that future boards have the option to use: (1) a calendar-year subscription system, or (2) a rolling, or evergreen, subscription system. In addition, it was recommended that a by-law be put forward by the board to the membership concerning this matter. Holliday, Yeany. Motion carried.

5. Washington, D.C. in 1987

Motion: Moved that the 1987 annual meeting of NARST be held subsequent to the NSTA meeting, providing that NSTA meets in Washington, D.C. on, or about, March 26-29, 1987. Butts, Doran. Motion carried.

6. Fall Board Meeting

Linda DeTure requested that a 1985 fall board meeting be a high priority for the Association. Once again, the entire matter of the board meeting in the fall was discussed. A general consensus of the board at this time was to meet in New Orleans on, or about, December 12-14, at the site of the NSTA area meeting.

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7. Financial Report

Motion: Moved that the 1984 financial report prepared by Bill Holliday be accepted by the board. Holliday, Aikenhead. Motion carried.

G. Special Business

Motion: Moved that a proposal informally submitted by Bob Yager be referred to the research committee for their deliberation. Butts, Blosser. Motion carried.

H. Report from the Editor

1. Russ Yeany reported that Joe Riley, of The University of Georgia, would be the Journal's associate editor. In addition, The University of Georgia is now providing Russ with a one-half time secretary and one-third release time from course work.
2. Jonas Rosenthal, associate publisher, journals, John Wiley & Sons, welcomed the opportunity to visit with the board members and participate at the annual meeting.

I. Committee Reports1. JRST Award Committee

Mike Padilla requested that the titles and authors of the winners of the JRST award be published in the program booklet and be published in the newsletter. In addition, Mike indicated that his committee was considering requests of the board to establish two additional awards, Best Dissertation and Distinguished Researcher awards.

2. NARST Awards

Linda DeTure also recommended that winners of awards be published in the newsletter. In addition, she provided Pat Blosser, the new chairperson of the NARST awards committee, with a complete record of DeTure's committee's work during the last three years.

3. Publications Advisory Committee

Glen Aikenhead indicated that no business had come to his advisory committee's attention. In addition, Glen indicated that more contributions to the newsletter were needed and that Larry Yore's proposal should be considered at a subsequent meeting of the board.

4. Research Committee

Rod Doran questioned the need for a research coordinator. He encouraged people to consider the usefulness of such a position in the future. In addition, he recommended that the board examine Bob Yager's proposal in the near future and that the board continue to present training sessions prior to annual meetings. Finally, Rod

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reported his work with Dorothy Gabel and Jim Shymansky in the research division of NSTA.

Ann Howe recommended that NARST's name appear on a prominent part of the documents being distributed at the NARST booth in Cincinnati. She reported enthusiastic responses from readers of the research matters series.

5. Financial Advisory Committee Report

Marcia Linn's committee's work on the financial advisory committee was presented to the board. Motion: Moved that the program committee examine the cost effectiveness of producing different kinds of program booklets for our 1986 annual meeting. Butts, Padilla. Motion carried.

J. New Business

1. Committee Membership - 1985 and 1986

Motion: Moved that the committee composition and structure submitted by Dave Butts for the year 1985-1986 be approved. Butts, Padilla. Motion carried.

2. Closing Words by Ertle Thompson

Ertle thanked everybody for their help during his presidency. Specifically, he recognized the contribution of Linda DeTure for her fine work on the NARST awards committee and also the fine work of Glen Aikenhead and his contribution to the publication advisory committee during the last three years. Ertle reminded the board that 380 members of NARST participated at the annual meeting and encouraged subsequent presidents to continue the policy of including as many people as possible on the program and in committees during future annual meetings.

K. Informal Meeting of The Board, April 16, 9:15 p.m.

An informal meeting of the board was held in Dave Butt's suite, April 16, 9:15 p.m. Dave recorded the discussion and promised to send a ballot describing informal motions to each board member for the board's inspection and decision. Dave sent a letter to the executive secretary on May 24, 1985 containing the "list of motions". He reported that all motions were supported by the board "via their mail ballot as of 5/25/85".

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BALLOT (continued)

4. Special technology related to science education research and instruction.

- B. Number and Location of Advertisements: Space for advertisements will not be counted against editorial page allocations. It is recommended that limits a paid advertisement pages be mutually determined by Wiley and the Journal Editor.
- C. Responsibilities: It is the responsibility of the publisher to establish advertisement rates and transact all advertisement business at no expense to NARST. However, it is recommended that the Journal Editor retain the power to approve/reject any advertisement which does not fall clearly within the categories established by the Executive Board.
- D. Revenues: The contractual agreement between NARST and John Wiley & Sons, Inc. call for NARST to receive 20% of the gross advertisement revenues generated.

<u>MOVED</u> that the Executive Secretary be authorized to add an "invitation to make a \$10.00 donation to NARST" to the 1986 dues notice.	Support	Do Not Support
---	---------	----------------

<u>MOVED</u> that NARST endorse the NSTA-NARST study of the selection process of science instructional materials as proposed by Ron Good.	Support	Do Not Support
---	---------	----------------

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NATIONAL ASSOCIATION FOR RESEARCH IN
SCIENCE TEACHING

Notes from Informal Meeting
4-17-85

Reports from various committees were discussed and some actions were recommended for our consideration.

FINANCIAL
ADVISORY
COMMITTEE

We discussed at some length the issue of changing dues and meeting registration. We noted the strong case for making the change as well as the financial advisory committee's recommendation of no change. We agreed to refer this matter back to the committee for their reconsideration and recommendation to the Fall Board meeting.

PUBLICATION
ADVISORY
COMMITTEE

The publication advisory committee moved that we approve the proposal for publishing a Handbook of Research in Science Education and inviting Larry Yore to serve as editor as per his letter of February 22, 1985 (Enclosure A).

POLICY
ADVISORY
COMMITTEE

This committee recommended a policy for renting of membership lists or labels. It also recommended that the Program Committee meet in conjunction with the fall Board meeting with at least two members being present. Action on this was not recommended since the fall meeting will be December 11, 1985. As a substitute, a separate meeting of a sub-group of the Program Committee may be authorized if requested by Jim B. The recommendation regarding restructuring of the NARST committees was returned to the committee for their further study. We requested that the committee present a recommended revision of the Bylaws Article 6 for the fall meeting of the Board.

PROGRAM
COMMITTEE

The report from this committee indicates that plans are in place for the San Francisco meeting-- March 28 to March 31, 1986. (Friday morning Board meeting, sessions begin Friday afternoon and continue until business session at 11:00 a.m. on Monday, adjourning at noon.)

RESEARCH
COMMITTEE

In this report, recommendations were made regarding the request from Iris Weis as endorsing the replication of a National Survey. The committee also recommended cooperation with ERIC in the development of 7 "Retrospective Reviews: 1972-1985."

ELECTION
COMMITTEE

The committee is at work on initiating their responsibilities. No recommendations for action.

AWARDS
COMMITTEE

The Awards Committee recommended that two new awards be established, an Award for the Outstanding Dissertation in Science Education and the Distinguished Research Service Award. They proposed to establish the criteria and selections for the distinguished service award so that it can be awarded and presented at the San Francisco meeting. Procedures and criteria for the second award would be developed during this year.

INTERNATIONAL
COMMITTEE

The International Committee recommended their continuance for a three year period. They further recommended that a column be published in the Newsletter to include such notes of interest to our international members as notices of availability for faculty exchange and notices of research in progress. They recommended that NARST explore ways to link with the international science education research conferences: 1986--West Indies, 1987--Baniff. Dave will work with the West Indies conference and Jim B. will work with the Baniff conference.

COMMITTEE ON
JOURNAL
ADVERTISEMENT

The committee recommended guidelines for Journal advertisement. (Attached--Ballot)

INTERORGANIZATIONAL
LIASION
COMMITTEE

The report of this committee was shared in writing from Burt Voss. This very active committee made a number of thoughtful recommendations. They are either now in place or referred to standing committees.

MEMBERSHIP
SERVICES
COMMITTEE

Gerald Abegg reported suggestions from this committee relative to NARST training sessions (referred to Program Committee), the Newsletter (referred to Newsletter Editor), the Journal (referred to Journal Editor), and reviews and research in progress (referred to Research Committee).

EXECUTIVE
SECRETARY
REPORT

Bill shared with us his concerns for revenue enhancement. While we agreed to request the Financial Advisory Committee to reconsider the dues/meeting increases, we agreed to request a \$10.00 donation from each member with the annual dues notices for 1986.

In new business, we noted that the fall Executive Board meeting will be in New Orleans, December 11, 1985 (the day before the NSTA area convention). Dave will request a written report from each committee by November 15 so that he can prepare the agenda and documents for that meeting.

One item for that agenda will be to request a recommendation from the Policy Advisory Committee on a change in the name of NARST to more adequately reflect our international composition.

Another item of business that has emerged is a request for NARST to endorse a NSTA-NARST study of science instructional materials selection process including textbooks. This study has the joint support of the research committees of NSTA and NARST. It would be under the direction of NARST member Ron Good and have an advisory board consisting of:

- Gerald Skoog, NSTA President
- David Butts, NARST President
- Jim Shymansky, NSTA Research Director
- Rodney Doran, NARST Research Coordinator
- Bill Aldridge, NSTA Executive Director
- William Holliday, NARST Executive Secretary

REPORT OF FINANCIAL ADVISORY COMMITTEE

MEMBERSHIP

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415-642-4902

Dorothy Gabel
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Kansas State University
Education
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Carl Berger
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School of Education
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313-764-9470

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

*Have a
part president of NARST
on this
committee*

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).

1. Budget Process

It has been recommended that the financial report be linked to the budget passed by the Board. Thus, the annual report of expenditures would be accompanied by a statement of the amount of funds allocated for each category.

It has also been recommended that (1) the NARST financial matters should be audited every five years, (2) a comparison should be made between funds spent and budget allocations for each year, (3) new ways of accumulating funds including donations from corporate people should be explored, (4) the Board should consider redistributing funds identified in annual budgets at its fall board meeting.

After acting on these recommendations, the Executive Board then moved that the schedule of financial reporting and action approved in November, 1978, be suspended and that this matter be turned over to the financial advisory committee and the policy advisory committee.

What next steps do you wish to recommend for the budgeting process for the NARST Executive Board to consider?

2. Budget Construction/Priorities

Budget is a perennial problem as indicated in previous Financial Advisory Committee reports. What priorities as to how funds are to be distributed should be set, when, and by whom?

3. Fees Structure for Members

Should we increase dues and meeting fees for 1986 as follows: (1) the dues increase \$4.00 for regular members from \$44.00 to \$48.00, (2) the registration fees increase \$10.00 for regular members from \$35.00 to \$45.00 (pre-registration fee) and \$46.00 to \$56.00 (late registration fee), (3) and the registration fees increase \$5.00 for student members from \$7.00 to \$12.00 (pre-registration fee) and \$18.00 to \$23.00 (late registration fee)?

The executive secretary has indicated that our current fee structure might not adequately cover the essential expenses of our association during the year, 1985. Therefore, a dues and/or fee increase aimed for 1986 seemed desirable.

What recommendation does the financial advisory committee wish to make?

FINANCIAL ADVISORY (Continued)

4. Should we explore the advantages of having NARST funds deposited in and dispersed from U. S. banks? What implications would this have for efficiency--or ease of functioning for the executive secretary's office?

5. Budget Review

As per the policy of the Board (11/78), this review will continued as follows:

September 15 -- Bill Holliday will forward financial report for January-August 1985. This report will be in the format as attached.

November 15 -- Financial Advisory Committee reports to Fall Board meeting.

6. Proposed Budget

As per the policy of the Board (11/79), on August 1, 1985, Dave Butts will forward a proposed budget for 1986 which will be developed in consultation with Bill Holliday, Ertle Thompson and Jim Barufaldi.

The recommendation for approval of the proposed budget should come in your committee's report.



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.

October 21, 1985

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

MEMO TO: Dr. Marcia C. Linn

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

FROM: Dave

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

SUBJECT: Proposed Budget for 1986

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

As per the policy of NARST, the attached drafted budget is being forwarded to you and your committee for review. I will appreciate your recommendations for this budget or its modifications in your committee report on November 15.

Thank you for your cooperation.

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

DPB:dk

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

Enc.

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

- cc: Dr. James Barufaldi
- Dr. Ertle Thompson
- Dr. William Holliday
- Dr. Dorothy Gabel
- Dr. H. Seymour Fowler
- Dr. Jerry Horn
- Dr. Carl Berger

Dr. Gerald Skoog
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John Staver (1988)
College of Education
University of Illinois at Chicago
Chicago, IL 60680

JOURNAL EDITOR
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RESEARCH COORDINATOR
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SUNY at Buffalo
Amherst, NY 14260

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 (150 x \$50.00)	^{2nd}	7,500.00
Late Registration (25 x \$65.00)	^{3rd} _{50.16}	1,625.00
4. Other		
Royalties from Wiley		1,600.00
Contributions from Donors		1,800.00*
Contribution from University of Georgia (Journal Editor)		22,000.00**
Contribution from <u>Cincinnati</u> (Executive Secretary)		20,500.00***
		<u>95,040</u>
TOTAL EXPECTED RECEIPTS		\$90,515.00

Handwritten notes and corrections on the right side of the budget table:

- 0
- 1150.00
- 5000.00
- Delta
- 7350.00
- 1,800.00* (circled)

*\$800.00 from ERIC to support the NSTA-NARST Lecture,
 \$1,000.00 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

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1. Journal of Research in Science Teaching
 Wiley Publishers (570 x \$20.00) \$11,400.00
 Journal Editor 16,000.00
 Journal Secretary 6,000.00
 Journal Postage/Supplies 1,000.00

12,060.00

35,060

2. Annual Meeting
 Programs (700 x \$5.00) 3,500.00
 Abstracts (300 x \$4.00) 1,200.00
 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
 Travel for 1987 Program Site Review
 Pres. Elect/Exec. Sec. x \$500.00 1,000.00

Training sessions

400.00

+1,000.00
20.1
ex Sec'y

\$ 11,140
\$ 13070

3. Officers/Executive Board
 President Elect 700.00
 President 1,000.00
 Past President 700.00
 Executive Board Meetings
 Spring--San Francisco (13 x \$500.00) ~~6,500.00~~
 Fall Meeting (13 x \$400.00) 5,200.00
 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

1,000.00

32,900

\$2880
Travel

- 4. Other
 - ICASE
 - Triangle Collation
 - Testing Monograph

260.00
 500.00
 5,000.00

 5,560.00

- 5. Newsletter
 - Printing and postage for 4 issues

3,000.00

TOTAL DISBURSEMENTS

\$92,090.00
 - 5,560.00

 86,530.00
 48,050
 89,710

REPORT OF PUBLICATIONS ADVISORY COMMITTEE

MEMBERSHIP

Glen Aikenhead, Chair
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 Saskatoon, Saskatchewan, CANADA S7N 0W0
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 403-220-7485

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. Recommendation Relative to JRST Publisher

Preliminary investigations regarding the publication of the Journal of Research in Science Teaching beginning in the year 1988 are being made.

Should a publishing and/or printing plan be considered well in advance of the beginning of 1987 because of our current contractual arrangements with Wiley?

2. Job Placement

It has been moved that job openings at institutions of interest to our NARST members be reported in our newsletters. It was suggested that NARST officers help in identifying openings at institutions that serve our membership.

In previous year's NARST discontinued its traditional placement service to the membership because of the poor employment conditions in the United States and Canada. Apparently, the situation is slowly turning around.

What recommendation can be given for filling this need?

NARST PUBLICATIONS COMMITTEE REPORT

I. Newsletter Revitalization

Provided that the following recommendations are financially feasible (e.g., that the \$3100 yearly cost -- a 1984 figure of the Newsletter does not increase by more than 50%), the NARST Publications Advisory Committee moves that:

- 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 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, 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 the 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 Newsletter 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 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.
- G. The Newsletter print job placement information [at a cost of \$100 per item (cheaper than equivalent postage costs for an institution)] in light of the recent increase in the job market activity.

*Added
included*

*WITH
DRAWN
Ext. Secy,
Pub. Admin
&
Journal
ed.
is
for
comm.*

II. JRST Publication Plans

The NARST Publications Advisory Committee moves that the new Executive Secretary explore publishing arrangements alternate to the present Wiley arrangements, in order that the ~~Executive Secretary~~ ^{Board} 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.

III. The JCST/Paldy Proposal

The NARST Publications Advisory Committee moves that:

- A. The NARST Executive appoint a NARST Research Column Editor (a 2 year renewable term), who will be responsible for all research columns written under the NARST name:
 1. The Editor will be responsible to the Executive,
 2. The Editor will, with the approval of the Executive, set guidelines and procedural mechanisms to follow, and enter into agreements with journal editors (e.g., Lester Paldy),
 3. The Editor will develop a network of potential contributors (within and outside NARST) with the help of the NARST Executive,
 4. 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,
 5. 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.

- B. Research Columns be pointed syntheses of areas of research, and focus on the engineering aspects of teaching (practical applications) rather than being reviews of a theoretical nature. The experience of the NARST research committee suggests that research columns do not get written by a committee, but by a committed editor who has the institutional resources and the organization's explicit support. The American Biology Teacher has a column written by Jim Stewart. His experience could be helpful to a NARST Research Column Editor. We are indebted to Mary Budd Rowe for her invaluable suggestions.

IV. Membership Directory

The NARST Publications Advisory Committee moves that:

- A. NARST publish a membership directory every three years.
- B. That the names contained include members of the latest two years.
- C. Only those members with current membership will be entitled to buy the directory.
- D. The cost of the directory should be set by the Executive (we recommend \$2 to defray mailing and handling costs).

V. The Yore Proposal

Provided that the cost estimates are reasonable, the NARST Publications Advisory Committee moves that 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.



UNIVERSITY OF SASKATCHEWAN
COLLEGE OF EDUCATION



DEPARTMENT OF
CURRICULUM STUDIES
306-343-3187

SASKATOON, CANADA
S7N 0W0

October 21, 1985

Dr. Marcia Linn
Lawrence Hall of Science
University of California, Berkeley
BERKELEY, CA 94720
U.S.A.

Dear Marcia:

Your letter of May 22/85 sent to Rod Doran was recently passed to me. It seems that the person "in charge of working with" Larry Yore to produce a Handbook of Research in Science Education shifts with time. I have been asked to steer it through the executive because of my position as chair of the publication committee.

The Yore proposal which you read was a document to facilitate the many discussions which occurred at French Lick Springs. The executive felt that the purpose of the handbook, an explication of methodology, was clearly developed in these discussions, clearly enough to warrant acceptance of the idea in principle. Details were to be worked out and to be provided at the December executive meeting for a more committed decision.

Your letter seems to propose a quite different sort of publication. I would encourage you to develop a tentative proposal to submit as new business to the NARST Executive in December. Current issues in science education and general reviews of specific areas of research would make excellent reading, I think. Instead of looking at a singular publication, however, your idea may be best suited for a series of columns that would be published under the NARST banner in the journals of other professional organizations. For example, the NARST Executive will consider in December a proposal for such a series in the Journal of College Science Teaching. A summary of crucial findings in science education would serve science instructors very well. The Yore proposal has a different purpose and has a different intended audience--

....2

Dr. M. Linn (Cont'd)

- 2 -

October 21, 1985

primarily graduate students in science education.

Perhaps the word "Handbook" in the title suggests to you a broader, more comprehensive content than is intended by Larry Yore's proposal. The matter will be discussed thoroughly in New Orleans. I look forward to seeing you there.

Sincerely,



Glen S. Aikenhead

GSA/bm

c.c. Dr. D. Butts, NARST Pres. ✓

PS to Dave:

my draft Pub. Adv. Cttee report was mailed to my committee today. Their responses are expected in time to meet your Nov 15 date. We're on schedule.





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TELEPHONE (604) 721-7211, TELEX 049-7222

Faculty Association

October 22, 1985

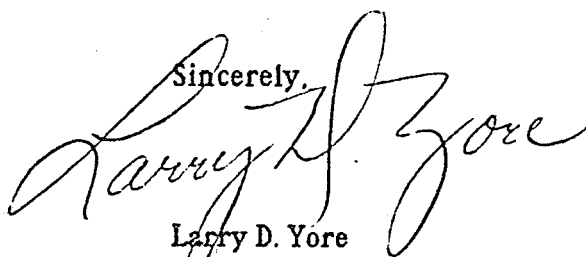
Dr. G. Aikenhead
Chairman
Publication Advisory Committee
College of Education
University of Saskatchewan
Saskatoon, Sask. S7N 0W0

Dear Dr. Aikenhead:

Please find enclosed the revised proposal for the NARST Handbook of Research in Science Education. Drs. Gallagher, Shymansky, Good, Padilla and Yeany have agreed to serve as section editors. All suggestions received regarding topics, authors and layout have been incorporated into the revised proposal.

The estimated size of the handbook is between 695-795 journal pages. Approximately 25-30% of this copy has been published in JRST. The proportion of published to unwritten copy is significantly lower than I originally predicted. Therefore it may be advisable to cost out alternate page layouts, page size and print type than used with JRST. I'm assuming that Dr. Holliday will be able to provide these alternatives and associated costs to your committee.

Please note that the time line has been extended to reflect the amount of new copy and general reality. If further information is needed by your committee, please contact me. Thanks for your prompt consideration of this proposal.

Sincerely,

Larry D. Yore

LDY
Encl.

P.S. I have sent copies to your committee members as requested. It may be worthwhile to provide NARST board members with copies prior to your next meeting.

c.c. Dr. W. Holliday, Executive Secretary
✓ Dr. D. Butts, President
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HANDBOOK OF RESEARCH IN SCIENCE EDUCATION

(All titles, topics, authors and sequence are tentative suggestions.)

Author, year, journal volume and pages included where possible.

* Denotes articles to be written.

Classification of titles may need reconsideration.

Preface: Yore - approximately 3-5 pages

Section I: Background (Editor: Dr. J.J. Gallagher, Michigan State University) - approximately 125-140 pages

- * Introduction: Gallagher
- * 1. Review of Research Trends: Curtis to Now (Likely two articles up to 1955 and 1955-1980) (Klopfer, Pittsburgh; Helgeson, Blosser, Ohio State)
- * 2. NARST Policy Statement on Research Focus (Past President(s) of NARST - Olstad, Washington; Welch, Minnesota)
- 3. Present Status - Education Research Speaks; Dare We Listen; Butts (1984), 21, 549-562
- * 4. Science Education: A Discipline?; Watson (1983) 20, 263-264 (expanded)
- * 5. What Teachers Ask of Science Education Research (Klopfer, Pittsburgh: 1981 NARST Keynotes)
- 6. Others
- * Summary: Gallagher

Section II: Research Models and Conceptual Schemes

(Editor: Dr. J.A. Shymansky, University of Iowa) – approximately
175-200 pages

- * Introduction: Shymansky
 1. Experimental Inquiry and Naturalistic Inquiry: An Evaluation;
Welch (1983) 20, 95-103
- * 2. Quasi-Experimental: Campbell and Stanley Applied to Science
Education
 3. Naturalistic Models
 - a1. A Research Methodology for Studying How People Think;
Larkin and Rainard (1984), 21, 235-254
 - a2. Example?
 - b1. The Survey - A Research Strategy Rediscovered: Butts (1983),
20, 187-193
 - b2. Example?
 - c1. Benefits of Naturalistic Method in Research in Science
Education; Smith (1982), 19, 627-638
 - c2. Example?
 - d1. On the Application of Ethnographic Inquiry to Education;
Rist (1982), 19, 439-450
 - d2. Example?
 - e1. Qualitative Syntheses; Yager (1982), 19, 337-350
 - e2. Example?
 - f1. The Place of Qualitative Research in Science Education;
Roberts (1982), 19, 277-292
 - f2. Example?

- g1. Case Studies; Easley (1982), 19, 191-203
- g2. Example?
- h1. Historical Research; Bybee (1982), 19, 1-13
- h2. Example, i.e.: Historical Study of the Physics Curriculum in B.C., Gaskill and Rowell, UBC.
- * i1. Single Subject or Small N Designs (Bachor & Freeze: UVic)
- i2. Example?
- * Summary: Shymansky

Section III: Analysis (Editor: Dr. R. Good, Florida State University) -
approximately 140-160 pages.

- * Introduction: Good
- * 1. Primary Analysis
 - * a. Descriptive
 - b. Inferential
 - *1. Parametric
 - *2. Non-parametric: Brewer & Good, Florida State
- 2. Secondary Analysis
 - a. Secondary Analysis and Science Education Research: Miller, (1982), 19, 719-725
 - b. _____: Willson (1982), 19, _____
- 3. Meta-Analysis
 - a. Meta-analysis; Glass (1982), 19, 93-112
 - b. Science Education: A Meta-analysis of Major questions; Anderson, et al. (1983), 20, 379-386

4. ATI
 - a. Aptitude-Treatment Interaction Research in Science Education; Koran and Koran (1984), 21, 793-808
- * 5. Factor Analysis:
6. Time Series Analysis: Mayer & Kozlow, 1980, 17, 455-451
7. Explained Variance: Good & Fletcher, 1981, 18, 1-7
8. Proper Experimental Unit: Kagan & Lindman, 1981, 18, ____
9. Multiple Significance Tests: Good: JRST
- * 10. Analysis of Protocol Data: Based on Ericsson & Simon's '84 book
- * 11. Human-Computer Interaction Analysis
- * Summary: Good

Section IV: Current Curriculum and Instruction Results: 1980 -
 (Editor: Dr. M. Padilla, University of Georgia) -
 approximately 120-130 pages.

Introduction: Padilla

- * 1. Learner Characteristics
- * 2. Instructional Methods (Renner/Abraham, Oklahoma; Birnie, Saskatchewan)
- * 3. Alternative Frameworks (Erickson, UBC)
- * 4. Where Have the Learning Paradigms Got Us?; Ansel, Gangé Piaget; Bruner (Lawson, Novak, Linn)
- * 5. Assessment Instruments (Fraser, Tobin & Treaquist, WAIT)
- * 6. Informal Learning Environment (Gennaro, Minnesota; Koran, Florida)

- * 7. Teachers Practical Knowledge of Science, Science Education and Science Curriculum (Kass and Lantz, Alberta)
- * 8. Seeing Curricula in a New Light (Roberts, Calgary)
- * 9. Curriculum Development: Theory and Using Events of Practice
- 10. Others
Summary: Padilla

Section V: The future (Editor: Dr. R. Yeany, University of Georgia) - approximately 130-150 pages

Introduction: Yeany

- * 1. Comprehension of Science Text (Finley, Holliday, Shymansky, Winn, Yore)
- * 2. CAI in Science (D. Walker, Sanford; C. Berger, Michigan; J. Okey, Georgia, et. al)
- 3. Information Processing; Stewart & Atkin (1982), 19, 321-332
- * 4. Cognitive and Meta-Cognitive Processing in Science (A. Brown, Illinois & D. Schallert, Texas-Austin)
- * 5. Problem Solving in Science (Bransford and Sherwood; Vanderbilt University)
- * 6. Science and Technology in a Social Context: Defining Science Objectives for the 21st Century (John Lewis, University of London, England; Aikenhead, Saskatchewan, or; Bybee, Carleton College.
- 7. Others
- * An Extensive Summary and Projection for the Future (R. Yeany)

* **Closing Comments:** All Editors or External Reactants - approximately 5-10 pages.

The handbook will be 698-795 JRST pages. Approximately 25-33% (201 pages) are published pages in JRST, leaving approximately 500-600 pages to be written and edited.

Tentative Timeline and Procedure

1. Acceptance of Section Editorships - October 15
2. Outline of topics, page projection and local cost (Section editors to Yore, October 15)
3. Revise Proposal, (project editor to NARST Publication Advisory Committee, October 20)
4. Publisher cost added to proposal (Holliday, November 15)
5. Publication Advisory Committee Action, November 15
6. Publication Advisory Committee's recommendation to Executive, December 12 meeting, New Orleans
7. Executive's Recommendation to Editors, January 1, 1986
8. Partial Development and Editorial Meeting at NARST: April, 1986, San Francisco,
9. Publication Advisory Committee Reaction at NARST
10. Manuscript July, 1986 - March, 1987 to Yore
11. Revision and completion, August 1987 to Publisher
12. Text available, March 1988 (NARST meeting)

REPORT OF POLICY ADVISORY COMMITTEE

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Calgary, Alberta, CANADA T2N 1N4
403-220-7485

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.

1. Committee Time/Task Expectations

Committee chairpersons (the NARST Board) with the aid of committee members should develop a time schedule (calendar) with a listing of special responsibilities and tasks to be performed by committees for each operational year of NARST. This calendar of dates, at which time specific responsibilities are to be met should be published immediately following its approval at the spring Board meeting.

What action has been taken to implement this Board action?

2. Committee Chairman

The Board should consider seriously whether or not all committees of NARST must be chaired by current Board members. A position could be that committees should be chaired by either current or former Board members, 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.

How does this fit with the following Board action?

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

What recommendation for By-law change does the committee wish to make?

3. Formation of an Executive Committee

It is a recommendation that an Executive Committee consisting of the three elected Presidents, the Research Coordinator, the Executive Secretary be established and empowered by the Board to act in the interim between annual Board meetings, and that any policy decisions made by the Executive Committee must then be circulated by mail for a vote of the entire board to enact such policy decisions for the membership.

What recommendation does the committee wish to make regarding an Executive Committee?

4. NARST Operating Policy

The Board has moved that NARST establish an operating policy manual. What action has been taken to implement this motion?

POLICY ADVISORY (Continued)

5. NARST Committee Structure Review

What recommendation does the committee wish to make relative to a revision of Article 6 of the By-laws?

REPORT OF THE POLICY ADVISORY COMMITTEE

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. President Butts requested the Committee to respond to the five questions related to former Board actions.

1. Committee Time/Task Expectations

Committee chairpersons (the NARST Board) with the aid of committee members should develop a time schedule (calendar) with a listing of special responsibilities and tasks to be performed by committees for each operational year of NARST. This calendar of dates, at which time specific responsibilities are to be met should be published immediately following its approval at the spring Board meeting.

What action has been taken to implement this Board action?

Response: Committee time/task expectations. Each committee chairperson has prepared an individual calendar for the work of the respective committee during 1985-86. We move that those individual calendars be reviewed, revised, and updated before the annual meeting, so that the new revised calendar updates, proposed for the 1986-87 may be acted on by the Board, and published in the newsletter immediately following the spring board meeting.

2. Committee Chairman

The Board should consider seriously whether or not all committees of NARST must be chaired by current Board members. A position could be that committees should be chaired by either current or former Board members, 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.

How does this fit with the following Board action?

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

What recommendation for Bylaw change does the committee wish to make?

Response: Article III Section 3.02-B reads:

- B. VOTES. Only regular members of the Executive Board may cast official votes in the transaction of business. Ex-officio members of the Executive Board may enter fully into all discussions and other matters concerning the business brought before the Board either in formal meetings

or by mail or wire transactions, but ex-officio members have no vote in the transaction of business of the Executive Board.

At the Board meeting November 27, 1984, the following motion was approved by the Board.

Motion: Move 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.

This change requires normal follow-up action by members for Bylaws change.

3. Formation of an Executive Committee

It is a recommendation that an Executive Committee consisting of the three elected Presidents, the Research Coordinator, the Executive Secretary be established and empowered by the Board to act in the interim between annual Board meetings, and that any policy decisions made by the Executive Committee must then be circulated by mail for a vote of the entire board to enact such policy decisions for the membership.

What recommendation does the committee wish to make regarding an Executive Committee?

Response: Based on feedback received from members of the Board, and other members of NARST the committee is persuaded that the sentiment favors support of a fall Board meeting in lieu of the formation of an Executive Committee. Therefore, it is our recommendation that the idea of formation of an Executive Committee be dropped.

4. NARST Operating Policy

The Board has moved that NARST establish an operating policy manual. What action has been taken to implement this motion?

Response: Work is proceeding on the establishment of an operating policy manual; however, the Committee recommends that we complete the Bylaws changes before completing the task of writing the policy manual.

5. NARST Committee Structure Review

What recommendation does the committee wish to make relative to a revision of Article 6 of the Bylaws?

Response: Article VI Section 6.04 reads:

Section 6.04. Program Committee. The members include the President-Elect as chairperson, four members (with two-year rotating terms), and the Research Coordinator (ex-officio). The duties are to establish theme and format for the Annual Meeting, arrange for special speakers and symposia, and evaluate abstracts for contributed papers. (A local arrangement committee may be established if desired.)

Motion was passed by the Board November 27, 1984--that NARST amend Article VI Section 6.04 to read as follows: The members include the President-Elect as chairperson, six members (with two-year rotating terms), the Research Coordinator (ex-officio), and the Executive Secretary (ex-officio).

Procedures for Amending the Bylaws

ARTICLE IX: AMENDMENTS

Proposed amendments to the Bylaws will be prepared by the Policy Advisory Committee and submitted to the Executive Board for approval. Proposed amendments so approved will be mailed by the Executive Secretary along with a ballot to members. A majority of those responding within 30 days of the date of mailing must indicate approval before an amendment will become effective.

No record was found of previous policy decisions requiring Bylaws changes having been mailed to the membership for approval. It is our belief that this practice is at least partly responsible for the confusion regarding operational procedures. Thus the Advisory Committee recommends to the Board that the two motions approved by the Board November 27, 1984, to amend Article VI Section 6.04 and Article III Section 3.02-B along with the following two motions be approved by the Board and mailed by the Executive Secretary as per Article IX to the membership for approval. Upon acceptance of the amendments by the membership a policy manual of operating procedures will then be developed in keeping with Bylaws as amended. The two motions are: (motion approved by Executive Board, April 1981)

- A. The President-elect shall assume the presidency if the office is vacated before the completion of the term. If serving such an unexpired term results in six months or more in the office of President, a new President-elect shall be appointed by the Executive Board. This appointed President-elect will then become President the following year. If less than six months is involved, the new President shall serve the entire next year as President as well. The office of President-elect will then remain unfilled until the regular time for elections.

- B. In the event that both the office of President and President-elect are vacated at the same time, or within the same term, the Executive Board shall appoint members of the Board to fill the unexpired terms and both offices will be filled the following year through election.

Article III Section 3.4 Vacancies reads:

- B. In the event that the office of President-Elect is vacated, the Executive Board shall appoint a member of the Board to till the unexpired term and the office shall be filled for the following year by elections. (The President shall then serve two years.)

New Motion: Recommended to the Board by Policy Advisory Committee.

New Section 6.07, Awards Steering Committee. The members 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 the review/selection process.

This would necessitate changing the number of the current Section 6.07 Special Committees to Section 6.08 Special Committees and the current Section 6.08 Committee Reports to Section 6.09 Committee Reports.

With the four proposed Bylaws changes approved by the Board and the majority of responding members, we can clearly present a much simplified set of operational policies and procedures in a new policy manual.

meeting of NARST

①

President Butts also requested that the Committee make a recommendation of a prioritized rank order for complimentary rooms at national conventions. The Policy Advisory Committee moves that rooms should be given in the order: ~~Executive Secretary~~, President, President-elect, Past President, and if available the new President-elect. It is also moved that the Board should establish a per diem allowance to cover the total expenses (meals and incidentals) for the Executive Secretary and the President for the number of days of the annual convention.

②

REPORT OF PROGRAM COMMITTEE

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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.

PROGRAM COMMITTEE

JAMES BARUFALDI

1. The NARST Program chairman should be in contact with other Program Chairs of NABT, NSTA regional and national, SSMA, AETS, ASCD etc. to have NARST research and applications of research sections at their conventions. We should also increase our efforts to be on programs where principals, superintendents, directors of curriculum and other administrators attend. NARST members should be on research panels at state science conventions. Teachers are interested in research findings and their applications if presented in a palatable manner.

Report of the 1985-86
NARST Program Committee
James P. Barufaldi, Chair
November, 1985

Our activities began at the NARST meeting at French Lick Springs, April, 1985. The Program Committee established the theme, Research in Science Education: Agent for Change.

Schedule of Events

Friday, March 28

7:30 - 12:00 noon
9:00 - 11:00 a.m.

Executive Meeting
Training Session A: Research Methods
Workshop on Meta Analysis

Training Session B: Use of Micro-computers for Laboratory Interaction and Research

1:00 - 2:00 p.m.
2:45 - 4:15 p.m.
4:15 - 5:45 p.m.
4:30 - 6:00 p.m.
6:00 - 7:30
7:30 - 9:00 p.m.
9:00 - 10:00 p.m.

Papers A 6 breakouts
Papers A 6 breakouts
Papers A 6 breakouts
Committee meetings
Committee meetings
Committee meetings
NARST Social Hour

Saturday, March 29

8:00 - 9:30 a.m.
9:30 - 20:00 a.m.

10:15 - 11:45

Papers B
Informal Discussion
(coffee break)
General Session I
Computers as Agents of Educational Change
"The Emphatic Computer"
Dr. Mark Lepper, Stanford University
"New Directions for Computers in Education"
Dr. Sueann Ambron, Apple Computer Co.
Moderator: Dr. Marcia C. Linn

1:00 - 2:30 p.m.
2:45 - 4:15 p.m.
4:30 - 6:00 p.m.

Papers B 6 breakouts
Papers B 6 breakouts
General Session II
"Demolishing the Myth of Scientific Objectivity"
Dr. Ian I. Mitroff, University of Southern California

6:15 p.m.

Reception for New Members

Sunday, March 30

Morning: A very special Easter morning tour of San Francisco Area

1:00 - 2:45 p.m.	NARST/JRST Awards Luncheon President's Message
3:00 - 4:30 p.m.	Papers C 6 breakouts
4:45 - 6:00 p.m.	Papers C 6 breakouts
6:15 - 7:30 p.m.	<u>General Session III</u> "Change is a Process, Not an Event: The Concerns-Based Perspective" Dr. Gene E., Hall, Research and Development Center for Teacher Education, The University of Texas at Austin

Monday, March 31

8:00 - 9:30 a.m.	Papers D 6 breakouts
9:45 - 11:00 a.m.	Papers D 6 breakouts
11:00 - 12:00 noon	Business Meeting

Members of the Program Committee are presently reviewing 164 proposals for the 1986 NARST program to be held in San Francisco at the Meridien Hotel, March 28-31, 1986. The 164 proposals include 5 symposia, 7 paper sets and 1 poster session. The review process includes at least three evaluations of each paper.

Speakers for the three general sessions have been solicited and confirmed. In October, Barufaldi and Holliday visited with staff members at the Meridien Hotel. Arrangements were discussed and confirmed. An additional event, a tour on Easter Sunday morning, was planned.



Founded in 1928
Organized to improve science teaching - through research
Sponsoring the Journal of Research in Science Teaching
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EXECUTIVE SECRETARY
Dr. William G. Holliday
NARST
The University of Calgary
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MEMO

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

Date: November 26, 1985
To: NARST Executive Board
From: Financial Advisory Committee
Marcia C. Linn, Chair
Re: Budget for 1986

PRESIDENT-ELECT
Dr. James P. Barufaldi
Science Education Center
E0B 340
The University of Texas at Austin
Austin, Texas 78712

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

This report reflects the comments of most members of the Financial Advisory Committee and is submitted for consideration by the Executive Committee at the Fall meeting in New Orleans on December 12.

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

The committee is pleased to report that the organization has responded to the changing needs of the membership by making great strides in communication concerning budgetary matters. In the categorization of budgetary information as well as in the capability of comparing projecting to actual costs, the available information is in excellent accord with the needs of the membership. It is useful to examine the costs of the journal, the annual meeting, and the newsletter as separate items.

Dr. Patricia E. Blosser (1987)
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Dr. Jane B. Bowyer (1988)
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Dr. Marcia C. Linn (1986)
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Dr. Michael J. Padilla (1987)
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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

The Financial Advisory committee has recommended increased allocation of funds to board communication. The board has endorsed this recommendation and, as a result, financial allocations for the Fall meeting have been increased to insure that all members of the board can attend. In the 1986 budget, funds have been allocated to insure that all members will be able to attend the Spring meeting. This is in keeping with the general recommendation that increased effort be made to insure board communication and therefore to increase the impact of the organization on the field.

JOURNAL EDITOR
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Science Education Research
an Evaluation Lab
Science Education Department
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Athens, GA 30602

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

A second area where increased funding has followed from financial committee and executive board discussion has been in reimbursement of speakers at the annual meeting. In this case, funds have primarily been used to bring individuals from related disciplines to the annual meeting to increase communication between NARST and other relevant groups.

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



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.

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SUNY at Buffalo
Amherst, NY 14260

The newsletter is another mechanism for communicating with the memberships. Discussion of the newsletter by the Financial Advisory Committee and the Executive Board in the past has raised a number of issues. It might be appropriate to discuss those at the Fall board meeting. What is the purpose of the newsletter? Should the newsletter inform membership about employment opportunities? Should the newsletter provide information on honors and awards gained by the membership? Should the newsletter provide updates on national and state initiatives relevant to science education? And etc. Allocation of resources to the newsletter depends on answers to these questions.

The Financial Advisory Committee is now in a position to recommend changes in dues and in registration fees for the annual meeting. An increase in dues would facilitate communication among the members of the Executive Board and also could facilitate communication for all members of the organization through the newsletter. Thus, it seems appropriate to increase dues from \$44.00 to \$48.00 as has been suggested by the executive secretary. It is further recommended that student dues remain the same.

Examination of the 1985 budget reveals that the annual meeting costs were not offset by registration fees. Essentially, registration fees raised approximately \$9,267.00 and the costs, combining the Item 13, line B for the executive secretary's office with Item F were approximately \$10,400.00. An increase in registration fees of approximately \$5.00 would bring the costs of the annual meeting more in line with the registration fees. Thus, it is recommended that the registration be increased and a \$5.00 increase looks like it would cover the actual costs of the meeting, if those costs remain the same as they were in 1985.

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Recommendations

The Financial Advisory Committee recommends the following topics for discussion at the Fall board meeting: a) board communication: are the changes in funding allocations meeting the needs of the board? b) annual meeting presentations: are the changes in funding allocations meeting the objectives for communication at the annual meeting? c) the newsletter: how can the newsletter best meet the needs of the membership and what financial allocations are appropriate for that? d) increased dues: should the dues of the organization be increased from \$44 to \$48 to increase communication among the membership? e) increased registration fees for the annual meeting: should the annual meeting registration fees be increased to more adequately reflect the annual meeting costs?

Exclude stud. reg. from this

by 85⁰⁰

MEMO

DATE: October 17, 1985

TO: Rob Doran

FROM: Marcia Linn

RE: Pre-sessions for an NARST meeting

I'm glad to hear that Hedges will be able to do the pre-session on meta-analysis on Friday. I spoke with John Layman and he said that he'd be quite happy to do the one on microcomputer-based laboratories. It would be good if you could send him additional information about the organization and plan for the session. His address is at the Lawrence Hall of Science, University of California at Berkeley, 94720.

Let me know if there are any other details that need to be attended to.

cc: Dave Butts
University of Georgia

REPORT OF RESEARCH COMMITTEE

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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.



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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 Marcel 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, 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 such as 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

1. Recommendation Regarding Helping Science Teachers Use Research Findings

The Board has moved that the research committee be charged with the responsibility of examining the possibilities of NARST producing promotional materials describing how research findings can be used to improve science teaching and that this committee report to the Board in April, 1985.

Dr. Holliday expressed hope that this committee would permit and facilitate the publishing of "pilot" materials in the near future. He explained that failure to do so could reduce the thrust of our membership drive, including our attempt to increase the visibility of "NARST," and fund raising efforts of the association.

What specific actions have the committee taken regarding this motion?

2. Membership Recruitment Strategies

Other strategies for increasing membership that have been suggested include the distribution of NARST-NSTA papers at the NSTA meetings and the establishment of an information-membership desk at the meeting of AAAS. Should the Board sponsor, at some time in the future, publish and distribute low-cost "brief notes" to perspective NARST members and corporate donors with a goal of clarifying to non-research people the relevance of research to improving science teaching. These materials would increase the influence of NARST in the science education community by increasing the readership of the journal and by increasing the revenue of the association. As a consequence, additional revenue would permit NARST to keep its dues and fees at a low level, to provide revenue for more services to the membership, and to build a financial reserve for "emergency" use similar to the ones established by NSTA and AERA. Perhaps such promotional materials should not carry the NARST stamp of approval but should provide people outside of NARST with an idea of how selected research might influence the quality of science teaching in the opinion of the researcher writing the material.

Another strategy is to appoint and charge it with the responsibility of examining the possibilities of NARST producing promotional materials describing how research findings can be used to improve science teaching. Such materials would be useful in recruiting members to NARST and in making people aware of our existence while describing how we can directly assist science teachers.

For example, a sample of six highly specific guidelines (focusing on some cognitive considerations in selecting science texts) potentially useful to science teachers. Some advantages of such guidelines "are that they are": (1) defensible in terms of contemporary theory and observations, (2) not controversial, (3) easy to understand and, (4) clearly applicable and of interest to most science teachers.

These materials would be useful in producing information packets for distribution to prospective members of NARST who are particularly interested in such applications. Current materials available to practitioners and published by other organizations often fail to meet the scholarly standards of NARST and to convince science teachers that research can be useful to them.

What recommendation does the Research Committee have regarding these strategies?

3. NSTA Publications

It has been moved that the chairs of the Research Committee and the Publications Advisory Committee, with the Executive Secretary and President, form a committee charged with the responsibility of cooperating with NSTA in the development of selected issues of What Research has to say to the Science Teacher in conjunction with personnel designated by NSTA.

What action has been done to implement this motion?

4. Membership Recruitment

Please note this list of 20 ideas on how to enhance our membership. Please note #8, 9, 12 & 13 as the most urgent items for recommendations.

1. "Ertle, I wish we had taken more time to discuss the point you raised at the NSTA Board Meeting about the lack of communication and cooperation among our professional organizations. It is a problem that needs attention. We might try having a meeting of the Presidents, Presidents-elect, and/or Past Presidents of the organizations at the regional NSTA meetings for the purpose of brainstorming the problems and potential solutions. Some sort of joint projects among interested organizations might improve the situation." And individuals who have had direct contact with NSTA and affiliates--such as NSTA program chair.
2. "We need more cooperative ventures of NARST with other science education organizations. For example, the middle school/junior high division of NSTA has obtained significant returns from a questionnaire in September 1984 in which middle school/junior high teachers across the country indicated interest and desire to become involved with cooperative research projects."
3. "A mechanism should be built into the NSTA program to identify teachers who want to participate in research projects. Now as we complete the NSTA Survey on Research Needs of Secondary Teachers might be an appropriate time. Perhaps we should schedule a session sponsored by NARST at the NSTA regional meeting by science educators in the region interested in conducting research on the findings of the report, and ask teachers who are interested in doing research in their classrooms to make themselves known."

4. "We should consider the possibility of having a NARST-coordinated center for the analysis of curriculum materials for K-12 science education. The work of the center should be primarily research that would be disseminated to consumers, i.e., schools and other purchasers of science curriculum materials."
5. "Could we in NARST develop a research-based evaluation for science textbooks? It could either be a committee of NARST members who formally rate new textbooks each year and widely distribute the results, or it could be a comprehensive evaluation instrument, developed by NARST, which local schools, teachers, and state departments of education could use to determine the quality of science text and curriculum materials. Such an instrument should be the result of a NARST committee's deliberations and should be published and distributed nationally."
6. "NARST workshops and/or presentations should be a part of each state, regional, and national conference. More or less standardized NARST sessions could be prepared which would then be delivered by different NARST members around the country. This would help to disseminate the current research findings from our collective membership and give us added visibility. Individual members would be more willing to give the somewhat "canned" presentations since they would be of the highest quality and would be somewhat regionalized by members. Canned presentations not acceptable. Localities should always be considered when designing appropriate presentations. Opportunity there. Organization should forward the name of the President-elect (or designee for program) to the NSTA President-elect and Program Chair of NSTA conventions so immediate contact may be made regarding convention program."
7. "As NARST members we should focus on ways to train inservice teachers to use research instruments to gather and interpret data pertinent to their respective science/mathematics classroom situations. This type of activity would be an excellent partnership arrangement between area schools, and colleges or universities."
8. "NARST can help science teachers by communicating proven strategies and techniques that facilitate improved learning. This can be accomplished by panel presentations where the emphasis is placed upon the applications to teaching rather than the implications of research findings. Panel presentations at conventions (state, regional, national) would be a good vehicle to disseminate information."
9. "We should ask NARST members to make themselves available to relate research findings to the many other science education organizations and to help interpret how such research findings can be applied to the teaching of science in the classroom. Briefings are also part of the conventions and short presentations would be effective." Should we establish a "NARST Speakers" bureau, e.g., NARST can develop a list of speakers (or people can volunteer) to be made available to organizations needing research reviews. People with expertise on cu-riculum research, microcomputers, evaluation, attitudes, etc. are available.

10. "We should ask NARST members to make themselves available to local school systems for seminars with school faculties including elementary school, secondary school, and college."
11. "More publications of Meta-Analysis Series for dissemination to other organizations interested in improving science teaching through the application of research findings."
12. "Teachers are practical people with very real time constraints, who do not always see a potentially useful idea unless it's put into practical terms. Therefore, we should have a NARST committee whose function should be to take the current research and present it to the teachers in functional terms. We should be demonstrating the applicability of findings in "time-wise" cost effective terms. Teachers are eager for new ideas, but they must be practical and readily transferrable to classroom practice. Presentations are many times so sophisticated with million dollar terms (smile) some research could be translated into "lay terms." Is this now being addressed in the "Research Matters" Series? Should this series be institutionalized with an advisory board, topic selection, etc.?"
13. "It would be helpful to science teachers if authors or representatives of NARST would summarize the context and the implications which recent research work has for the classroom teacher. A "newsletter" of this sort could be put together covering a variety of topics but geared specifically for the classroom practitioner. Most classroom teachers have limited access to conferences on a continuing basis."
14. "Involve classroom teachers in implementing research findings through the design of graduate inservice programs."
15. "Develop new methods and avenues for disseminating research findings to critical decision makers (those charged with curriculum decisions) such as supervisors, administrators, and state department of education personnel."
16. "NARST should consider the development of a research handbook for teachers and others which would be practical, easy to use including those research findings which are widely accepted, highly regarded, broadly generalizable, and if implemented could improve science teaching. Such a handbook should be organized into a few chapters or categories which are highly germane to the professional needs and interests of experienced teachers."
17. "As professional associations we should capitalize on the multiplier effect provided by regional research laboratories. Through these laboratories we could mount a program to develop short courses which would update science educators' knowledge of research findings known to improve science teaching."
18. "NARST needs to inform school administrators of significant research findings which when implemented have been proven to improve science teaching and science education programs."

- 19. "NARST as an organization should seek major funding through a proposal to consolidate research findings into a few critical categories for disseminations to the science education community. Through the design and implementation of short courses teachers could be prepared to implement new teaching practices suggested by the research."
- 20. "NARST certainly would have more impact on the classroom teacher if their convention was located in close proximity of the NSTA convention. NSTA always provides space for affiliates to meet on Wednesday afternoons and all day Thursday before NSTA convention convenes. Other affiliates take advantage of this practice. At least one day could be devoted to research findings that would assist classroom teachers."

Are there recommendations for Board consideration you wish to make?

It has been suggested that NARST include short, snappy articles on what research says about science in publications like the Instructor. What does your committee wish to recommend regarding this possibility?

It has been recommended that we should work at developing science educator-teacher researcher partnerships. It is quite effective in stimulating research with good teachers as partners in research. We must work harder at the local level with outstanding science teachers--developing peer relationships--credibility is improved, teachers will learn to respect research. You may wish to contact Bob Yager for more details on this idea.



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October 28, 1985

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Milwaukee, WI 53201

Dear Dick:

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.

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.

Thank you for your continued contributions to strengthening NARST.

Very sincerely,

David P. Butts
President

DPB:dk

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



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



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October 10, 1985

PRESIDENT
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Dear NARST Research Committee Member:

PRESIDENT-ELECT
Dr. James P. Barufaldi
Science Education Center
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Austin, Texas 78712

As always time moves more quickly than I do!

This summer I sent you a letter summarizing our recommendations from the French Lick meeting and a number of questions for our committee.

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

It is now time to collect our comments. Please feel free to send them to me via letter in the next few weeks. If I do not receive your comments, I will call you before the end of October. If you have misplaced the previous letters, please let me know soon.

BOARD MEMBERS-AT-LARGE
Dr. Glen Aikenhead (1986)
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Saskatoon, Sask. S7N 0W0

Of primary interest to me is the possible uses of the existing Research Matters and likely authors for future issues. Secondly, Dave Butts highlighted activities for our committee in a letter of May 29. I am pursuing two research methods workshops for the San Francisco meeting with the help of Marcia Linn and Jim Shymansky. These workshops would focus on meta analysis and on the use of microcomputers for laboratory interaction and research.

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

I hope to hear from you soon.

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

Sincerely,

Rodney L. Doran
Professor of Science Education

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

RLD:dc

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

RESEARCH COMMITTEE MEMBERS:

Jane Bowyer
Roger T. Johnson
Joseph D. Novak
William Holliday

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

c.c. David Butts ✓
James Barufaldi

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
New Orleans, La. December 12, 1985

Candidates for NARST 1986 Election

Drs. Ertle Thompson, Robert Howe, and David Lockard of the Election Committee present the slate of candidates for the 1986 NARST election. Additional nominations may be made by petition of ten members. Petitions must be received by the Executive Secretary by December 27, 1985. The by-laws require that information about each candidate be published in the newsletter and ballots be mailed to the members two months prior to the annual meeting. Official ballots will be mailed to members in January 1986.

President-Elect

Linda R. DeTure
School of Education
Rollins College
Winter Park, FL 3278

Burton E. Voss
School of Education
University of Michigan
Ann Arbor, MI 48109

Executive Board

Linda W. Crow
Houston Community College System
Houston, TX 77007

Sarah L. Ulerick
Department of Geology
University of Oregon
Eugene, OR 97405

Ronald G. Good
Science Education
Florida State University
Tallahassee, FL 32306

Emmett L. Wright
Dept. of Curriculum & Instruction
Kansas State University
Manhattan, KS 66506

Research Coordinator

Rodger W. Bybee
Education Department
Carleton College
Northfield, MN 55057

Dorothy L. Gabel
Science Education
Indiana University
Bloomington, IN 47405

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
Central Michigan University
Department of Biology
Mt. Pleasant, MI 48859
517-774-3412

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

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.

AWARDS COMMITTEE

MICHAEL PADILLA

1. Notification of Award Winners

Motion: Moved that chairpersons of the JRST Award Committee and NARST Award Committee notify the winners of the awards in advance of the annual meeting.

What action has been taken to implement this Board action?

2. New Awards

Procedure and criteria for the Distinguished Research Service Award should be ready for Board approval.

The Awards Committee has accomplished several tasks in the recent months.

1. The NARST Best Paper/Practical Applications group revised the specific criteria for these awards (see attached). These were published in the Fall Newsletter.
2. The JRST Award Committee began the involved process of reading and rating each article published in JRST. This process continues.
3. The Awards Committee wrote and refined criteria and procedures for a new award, The Distinguished Contributions to Science Education Research Award. The attached was mailed to all NARST members in October.

Twenty-five papers were received for consideration for the NARST outstanding paper and practical applications paper awards. Of these 25 papers, 15 were identified as entries for the NARST Outstanding Paper Award; 10 were identified as entries for the NARST Practical Applications Paper Award.

Identifying information (author, institution) was removed from these papers and they were mailed to the members of the NARST Papers Awards Committee for judging. Also sent to the committee members were summary sheets and rating forms. Papers were mailed October 22, 1985. Committee members were sent a letter asking that the committee chair be notified if the papers had not been received within two weeks of receipt of the letter. To date, no such communication has been received from any committee member.

Evaluations from committee members are due no later than January 15, 1986.

This committee has no recommendations for NARST Board action at this time. However, a situation has occurred that may call for Board action or, at least, advice. This year two members of the Paper Awards Committee submitted papers for consideration. One member volunteered to withdraw from the committee or at least not to participate in the evaluation. No such offer came from the other committee member. Due to the number of papers to be read, removal of two

?

Outstanding Paper and Practical Application Award

An invitation to submit your 1985 NARST paper to awards committee

Submission Deadline: October 1

Each year at the annual meeting of the Association, the NARST Awards Committee recognizes persons whose papers, presented at the meeting the preceding year, are judged to be outstanding for their contributions to science education research or for practical applications of research to classroom practice.

The NARST Awards Committee invites all persons who presented papers at the 1985 meeting in French Lick to submit ten (10) copies of the complete paper and an abstract (a copy of the abstract should accompany each paper) for consideration for the Outstanding Paper Award. These awards will be presented at the next NARST meeting in San Francisco.

Papers are judged on (1) significance of problem investigated, (2) conceptual background, (3) research approach, (4) methodology, (5) significance of outcomes, (6) conclusions, (7) communication of information, (8) overall uniqueness. For the practical applications award, there is a ninth category: evidence of practical applications for practitioners.

Please send, by October 1, 1985, the ten (10) copies of your paper and abstract and a stamped self-addressed post card (which will be returned to you upon receipt of your papers) to:

Patricia E. Blosser
ERIC Clearinghouse for Science, Mathematics,
and Environmental Education
1200 Chambers Road, Rm. 310
Columbus, OH 43212

Please include a cover sheet containing the following information: Name, address with zip code, telephone numbers and designate — outstanding award or practical application award.

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

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

COMMITTEE CHARGE

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

REPORT FROM AD HOC COMMITTEE ON INTERNATIONAL ISSUES

PATRICIA BLOSSER, CHAIR

The Ad Hoc Committee on International Issues has provided some material for the NARST newsletter relative to the conference to be held in Trinidad next year in which NARST will participate.

James Gallagher has agreed to write a short column describing his experiences at WAIT to be published in a future issue of the NARST newsletter. Art White has agreed to keep the committee informed about the activities of the international consortium that he chairs.

It would be helpful, in order to negotiate with other potential authors, if the dates for copy for future issues of the NARST newsletter could be specified.

REPORT FROM EXECUTIVE SECRETARY

WILLIAM G. HOLLIDAY

1. Membership

NARST's membership as of November 14 (this year's cutoff date with Wiley Publishing) has increased slightly over 1984's, contrary to the fears expressed in my latest memo (1984-07-03). I will provide precise numbers at our board meeting in New Orleans. I phoned friends, wrote participants at our French Lick Springs meeting and mailed renewal notices and "left-over" newsletters to people who had appeared to have abandoned research in science education. These simple procedures proved to be effective. Nevertheless, the new executive secretary must be encouraged and supported in the goal of maintaining and increasing NARST's membership. We can't afford to let up.

2. Emeritus Status Application

Dr. William G. Walsh of Michigan State University has applied for emeritus status. In past years, he has been a regular member of NARST. I recommend the approval of his application.

ACTION: See Motion #11

3. American Heritage Publishing

American Heritage Publishing does not appear to be interested in purchasing our address labels at any price, contrary to their \$600 proposal presented to the board last spring.

JOURNAL OF RESEARCH IN SCIENCE TEACHING

RUSSELL H. YEANY, Jr., Editor

Department of Science Education
The University of Georgia
Athens, Georgia 30602
Telephone No. (404) 542-1763

TO: NARST Executive Board Members

FROM: Russell H. Yeany, Editor
Journal of Research in Science
Teaching

DATE: December 12, 1985

Wiley Institutional Circulation Proposal

The institutional subscriptions to the JRST have been decreasing in recent years. Jonas Rosenthal presented data at our Frence Lick meeting which indicated that, while individual subscriptions (primarily through NARST membership) have increased, the institutions have reduced their subscriptions. During the past several months, the JRST Editor has been discussing ways in which to combat the downward trend and maintain the NARST membership growth.

It is proposed that NARST cooperate in a campaign to increase institutional subscriptions. A basic component of the campaign is to contact individuals (including NARST members) and provide them with a simple means of requesting their library to order the JRST. Wiley will develop a set of promotion materials that will include a "tear off memo" which can be signed by a faculty member and forwarded to the library as a request to order the JRST. Samples are attached.

The vitality of the Journal is based not only on its quality but also on the circulation. The Editorial Review Board and I strive to maintain the quality; we need to cooperate with Wiley to increase circulation.

I am asking NARST to cooperate in this effort 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.

/lr

CC: Mary Curtis
Jonas Rosenthal
Linda Thurlby

TABLE 1
MANUSCRIPT RECORD VOLUME 22 (1985)

DESCRIPTION	1980	1981	1982	1983	1984	1985	TOTAL
Manuscripts Received	160	149	142	132	147	137	867
Manuscript Pages Rec'd.	NR	NR	2410	2675	2840	2800	10725
Comments & Criticisms	4	7	14	11	4	4	44
Book Reviews	0	2	5	0	2	0	9
Manuscripts Accepted	55	63	69	81	56	52	376
Manuscript Pages Accepted	1050	1465	1716	1915	1120	1050	8316
Manuscripts Rejected	44	59	64	75	47	37	326
Manuscripts Deactivated	6	4	4	8	0	0	22
Manuscripts in Revision	34	36	36	29	24	44	203
Manuscripts in Review	36	17	7	9	11	49	129
Acceptance Rate (%)	54	50	50	49	56		
Rejection Rate (%)	46	50	50	51	47		

FIGURE 1

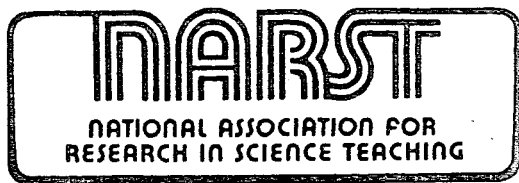
1985 JOURNAL EDITORIAL BOARD

	1st Term	2nd Term		1st Term	2nd Term
Michael Abraham		85	William C. Kyle, Jr.	85	87
Marianne Betkouski	85	87	Antonio Mendez	86	88
William Capie	86	88	Douglas A. Roberts		86
Linda Crow	86	88	Michael Shayer		85
George DeBoer	85	87	Robert Sherwood	85	87
Rosalind Driver		86	Doris Simonis	85	87
Richard Duschl	85	87	Elizabeth Stage		85
Barry J. Fraser		86	Pinchas Tamir	85	87
Ronald G. Good		86	Ken Tobin	86	88
Willis Horak	86	88	Ed van den Berg	85	87
Jane B. Kahle		85	Paul Westmeyer		85
Thomas Koballa	85	87	Victor L. Willson		85
			Dana Zeidler	85	88

FIGURE 2

1986 JOURNAL EDITORIAL BOARD

	1st Term	2nd Term		1st Term	2nd Term
Marianne Betkouski	85	87	Douglas A. Roberts	85	87
William Capie	86	88	Robert Sherwood	85	87
Linda Crow	86	88	Doris Simonis	85	87
George DeBoer	85	87	Barbara Spector	87	89 ✓
Rosalind Driver		86	Barbara Strawitz	87	89 ✓
Richard Duschl	85	87	Pinchas Tamir	85	87
Barry J. Fraser		86	Ken Tobin	86	88
Ronald G. Good		86	Ed van den Berg	85	87
Willis Horak	86	88	Wayne Welch	87	89
Thomas Koballa	85	87	Victor L. Willson		85
William C. Kyle, Jr.	85	87	Emmett Wright	87	89 ✓
Antonio Mendez	85	87	Dana Zeidler	86	88
<i>Victor Mayer</i>		<i>89</i>			
<i>Peter Rubba</i>		<i>89</i>			



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

1985-10-02

Mr. Bill G. Aldridge, Director
National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, DC 20009
U.S.A.

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

Dear Bill:

I have an idea that might bring NSTA and NARST closer together while providing science teachers with a unique opportunity to interact on an individual basis with an experienced researcher from NARST.

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

This idea is to offer science teachers, who are registered with both associations' 1986 conventions (NSTA: March 26-29, NARST: March 28-30), the chance to consult with a university researcher on a personalized basis. Topics available to science teachers in the first year of this experimental consulting program would include: (1) preparing research proposals, (2) applying research results, (3) doing research studies, and (4) writing professional papers. Because of the unfamiliarity of the success and operation of such a program, science teachers would be requested to register 30 days in advance, thus permitting NARST to schedule teachers with an adequate number of researchers. The scheduling of the meeting places for science teachers and researchers would be my responsibility as a current member of the NARST program committee. Meetings of teachers and researchers from March 26-29, would be held in the Hotel Meridien - the common 1986 convention hotel for both associations. Of course, this program would be offered to teachers on a first-come, first-served basis - depending upon the supply of competent and interested researchers.

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

Here is an example a projected course of events. A science teacher, reading about this experimental consulting program in NSTA Today or in the NSTA Advance Program, decides to apply for the program with the plan of later applying for a state grant focusing on science teaching. The teacher would then complete the coupon in the NSTA publication and mail this request with payment to the NSTA headquarters. Payment would include NSTA fees and dues and NARST registration dues for members - \$35, or for non-members - \$46. I would arrange for a researcher (and a substitute) to telephone the teacher for an initial

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

interview, covering such concerns as the confirmation of a meeting place, date and time. For instance, NARST would ask a researcher, like Dr. Emmett Wright, to help the teacher write a successful grant proposal. (Dr. Wright from Kansas State University presented an excellent session on applying for grant proposals at the NSTA summer board meeting, July 1985.) At the San Francisco convention, the teacher and researcher would come prepared to discuss the research needs of the teacher. Subsequently, both parties would be polled for their evaluation of the success of this jointly sponsored, experimental consulting program. These and other reactions would be used to assess the feasibility of extending this program to the 1987 convention in Washington, D.C.

Using research to improve teaching ranks second in importance to many teachers, according to a publication of the International Reading Association (IRA). (In this regard, teachers' first concern is learning practical classroom ideas.) Yet, neither NARST nor NSTA has been particularly successful in meeting this professional need - especially, when compared with the notable success of IRA.

Perhaps, the implementation of this experimental consulting program would meet some of the teachers' perceived research needs while bridging the formal gap between the two associations.

Ms. Jan Barrett and, especially, Ms. Ellie Snyder of your office have expressed an interest in this proposal. Moreover, Dr. James Barufaldi, president-elect of NARST, clearly supports the concept and its trial run in 1986.

Please telephone me as soon as practical concerning your response to this proposal. If you have any questions, please do not hesitate to contact me.

Sincerely,

William G. Holliday
Executive Secretary

WGH/cm

cc: Jan Barrett, Administrative Assistant, NSTA
James Barufaldi, President-elect, NARST
David Butts, President, NARST
LeRoy Lee, President-elect, NSTA
Gerald Skoog, President, NSTA
Ellie Snyder, Director of Conventions, NSTA
Emmett Wright, member of NARST

Dave
I've sent
copies of this report
to the Financial Comm.
As I recall, you will
propose the 1986 budget
at our New Orleans meeting.
Bill

Interim Financial Report

November 1, 1985

1985 Budget (In U.S. Funds)

National Association for Research in Science Teaching

William G. Holliday, Executive Secretary

(in consultation with Dr. Ertle Thompson, President)

RECEIPTS

	Budgeted	Earned
<u>MEMBERSHIP DUES</u>	<u>\$26,920</u>	<u>\$25,205</u>
Regular (550 x \$44) (14 x \$14, 66 x \$30,	24,200	-
Student (70 x \$30) + (20 x \$14) 1 x \$35, 517 x \$44	2,380	-
Corporate Contribution (1 x \$250) 1 x \$46, 2 x \$100)	250	-
Emeritus (3 x \$30)	90	-
ASE (1 x 0)	0	-
<u>ANNUAL MEETING (Registrations)</u>	<u>\$ 7,108</u>	<u>\$ 9,267</u>
Preregistration (144 x \$35) + (24 x \$7) see	5,208	-
Late registration (37 x \$46) + (11 x \$18) below	1,900	-
32 x \$7, 9 x \$18, 3 x \$20, 2 x \$30, 184 x \$35, 48 x \$46, 1 x \$56, 1 x \$57.		
<u>OTHER</u>	<u>\$13,600</u>	<u>\$12,425</u>
Royalties from Wiley Publishers	1,600	1,639
Contributions from donors	7,000	6,700
Carry-over from 1984	4,000	4,086
Miscellaneous income	1,000	undet.
<u>TOTAL INCOME FROM RECEIPTS</u>	<u>\$47,628</u>	<u>\$46,897</u>

US/Canadian Exchange: .7246376/1.38

DISBURSEMENTS

	Budgeted	Spent
A. WILEY PUBLISHING (620 subscribers @ \$20.00) $589 \times \$20$	\$12,400	\$11,780
B. EXECUTIVE SECRETARY'S OFFICE	\$15,750	\$11,770
1. Printing (newsletters, supplements)	1,600	1,400
2. Promotional printing, advertising & postal costs	1,500	540
3. Postage (to membership, large envelopes)	1,200	1,000
4. Regular correspondence - postage (\$350)	- 0 -	- 0 -
5. Supplies (labels, office materials, publications)		
Stationary and newsletter paper, envelopes & printing	1,000	600
6. Telephone (12 months @ \$250)	3,000	3,000
7. Photocopying (\$600)	100	50
8. Courier service	150	70
9. Special secretarial and clerical help	300	150
10. Computer time & hardware (\$1,000)	- 0 -	- 0 -
11. Secretarial service (50% of "her" time)	- 0 -	- 0 -
12. Salary (25 hours per week - 1/3 released time)	- 0 -	- 0 -
13. Travel and related costs		
a. NSTA-IRA meetings (Washington - training sessions)	1,300	- 0 -
b. NSTA-NARST meetings (includes some board expenses and other on-site costs) (French Lick-Cincinnati)	1,600	2,438
c. NSTA Summer meeting (destination unknown)	900	622
d. NARST Fall meeting (includes some board expenses and other on-site costs) (perhaps Atlanta)	1,500	1,100
e. NARST Promotion, destinations unknown (\$2,000)	- 0 -	- 0 -
f. Hotel Meridien Meeting with J. Barafaldi		600
14. Fund-raising expenses (purchase of materials, teacher and corporate visits, local entertainment)	1,200	200
15. Legal assistance, accounting and audit	400	- 0 -
C. PRESIDENTS' OFFICE (any reasonable expense)	\$ 2,200	\$ 2,683
1. President	1,000	1,146
2. President-elect	700	876
3. Past President	500	661
D. FALL MEETING	7,280	3,960
12 officers; does not include secretary (4 people serve on board and program committees - 2 days) (travel cost, each \$500; 16 persons hotel-days, \$50; 16 persons food-days, \$30) Thus, \$6000 + \$800 + \$480 Note: Assume six or fewer claims, \$500 + \$100 + 60 per person		
E. JOURNAL OFFICE	1,900	\$1,589
1. Editor's postage	1,000	1,000
2. Travel	900	589

continued...3

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F. ANNUAL MEETING	\$ 5,900	\$ 7,980
1. Program booklets 900 (construction, printing, mailing)	1,700	1,971 -
2. Abstracts	1,000	1,000
3. Awards	200	170
4. Supplies and operational costs	250	1,463 -
5. Speaker fund (\$200 honorarium, travel, one day of expenses, two/three people)	2,000	3,376 -
6. Entertainment and membership promotion	750	see F4
7. Miscellaneous costs related to annual meeting and described in parts B, C and D estimated at one-third of their grosses, or \$8630.	- 0 -	- 0 -
G. COMMITTEES (miscellaneous)	\$ 350	\$ 100
H. OTHER	\$ 280	\$ 77
ICASE dues	80	54
Miscellaneous	200	23
TOTAL DISBURSEMENTS	\$46,060	\$39,939

REPORT OF NARST PRESIDENT

December 1985

During this year, NARST members have been on the move. Under the leadership of excellent chairmen, our committees have been faithful to the 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 from them for our action.

1. Recommend that we approve the proposed budget for 1986 (ref. Financial Advisory).
2. Recommend that we approve the appointment of a Newsletter Editor (ref. Publications Advisory).
3. Recommend that we have the Executive Secretary explore publishing arrangements as an alternative to Wiley (ref. Publications Advisory).
4. Recommend that we appoint a NARST Research Column Editor for a two-year term (ref. Publications Advisory).
5. Recommend that we publish a NARST membership directory on a three-year cycle (ref. Publications Advisory).
6. Recommend approval of the plan for a NARST Handbook of Research in Science Education (ref. Publications Advisory).
7. Recommend requesting calendar of key events from each committee chairman (ref. Policy Advisory).
8. Recommend the approval of change in NARST Bylaws -- Article III Section 3.02 B (ref. Policy Advisory).
9. Recommend the approval of change in NARST Bylaws --
Article VI Section 6.04
Article IX
Article III Section 3.04
Article III Section 6.07
(ref. Policy Advisory).
10. Recommend policy for prioritized rank order of assignment of complimentary rooms (ref. Policy Advisory).
11. Recommend approval of William Walsh for emeritus status (ref. Executive Secretary Report).

12. Recommend approval of President-Elect and Executive Secretary to complete negotiations for Washington meeting in March 1987 (Ref. Executive Secretary Report).

In addition to working with the committee chairmen, the presence of NARST has been visible through these efforts.

First. 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." In part or totally 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 (scheduled December 13, 1985),
- at the Orlando^d meeting of the National Association of Biology Teachers—30 participants,
- and at the NSTA National Convention in San Francisco (scheduled in March).

Second. With NSTA's cooperation and ERIC's support, we have scheduled the NARST-NSTA Special Lecture with Paul DeHart Hurd as our speaker. Other scheduled NARST events on the San Francisco NSTA Program are described in Attachment A.

Third. We are jointly sponsoring the first Regional Consultation on Science Education in Latin America and the Caribbean. It will be held at the University of the West Indies, Trinidad, February 12-15, 1986. NARST members presenting include Ron Anderson, Jim Barufaldi, Art White, Don Berlin, Juan Esquil, Robert Howe, and Dave Butts.

Fourth. We are involved in several activities that relate to analyses of science textbooks.

- a. 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 is scheduled at the NSTA meeting in San Francisco.
- b. We have been 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 is scheduled for March 17-18, 1986 in Atlanta. The agenda is attached (Attachment B). In addition, I have been asked to address their School Division meeting in Washington in January 1986.

Fifth. 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.

Sixth. 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 to be named. ERIC has agreed to assist in the printing and disbursement of the monograph.

It continues to be a busy, exciting and exhausting year--maybe even a blast when we participate as observers at the January space shuttle launch in Florida. Thank you for this opportunity to share with you in this time of challenge.

PROPOSED NARST COMPONENTS OF
NSTA ANNUAL CONVENTION
SAN FRANCISCO

ATTACHMENT A

<u>Session</u>	<u>Date/Time</u>	<u>Location</u>
1) NARST-NSTA Special Lecture (1 hours)		
Moderator: David Butts The University of Georgia Department of Science Education President -- NARST		
Speaker: Paul Dehart Hurd Professor Emeritus Sanford University		
Topic: "Linking Research to Classroom Practices"		
2) NARST-NSTA Symposium (2 hours)		
Presentors: Robert Howe ERIC Center for Science and Mathematics The Ohio State University Columbus, Ohio 43210		
David P. Butts Department of Science Education The University of Georgia Athens, Georgia 30602		
Topic: "Effective Teaching and School Research: How Will It Help Me as a Teacher?"		
3) NARST-NSTA Paper (1 hour)		
Presentors: Dan L. McKenzie College of Education University of South Carolina Columbia, South Carolina 29208		
Michael J. Padilla Department of Science Education The University of Georgia Athens, Georgia 30602		
Topic: "Linking Laboratory Activities to Helping Eighth Grade Students Learn Graphing Skills"		

4) NARST-NSTA Paper (1 hour)

Presentors: Margaret Walkosz
Division of Biological Sciences
University of Georgia
Athens, Georgia 30602

Russell H. Yeany
Department of Science Education
University of Georgia
Athens, Georgia 30602

Topic: "Linking Laboratory Activities to Student
Science Achievement"

5) NARST/NSTA Paper (1 hour)

Presentors: Kevin C. Wise
Science Education
New York University
933 Shimkin Hall
50 W. 4th Street
New York, NY 10003

James R. Okey
Department of Science Education
University of Georgia
Athens, Georgia 30602

Topic: "Linking Microcomputer Simulations to High
School Students Success in Physics"

6) NARST/NSTA Paper (1 hour)

Presenter: William G. Holliday
NARST-EDCI
The University of Calgary
Calgary, Alberta
CANADA T2N 1N4

Topic: "Studying Science Textbooks"

NARST/NSTA POSTER SESSIONS (3 -- 1 hour periods)

Coordinator: Joseph P. Riley
Department of Science Education
University of Georgia
Athens, Georgia 30602

Topic: "Problem-Seeking and Solving for
Science Teachers"

NOTE: In each of the 60-minute sessions, we will feature at least six problem areas teachers experience linked with a researcher who will share ideas on how to solve those areas. We expect to have name of problem area and persons available within the next three weeks.

Preliminary Program
Nov. 4, 1985

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ATTACHMENT B

IMPROVING SCIENCE AND MATHEMATICS EDUCATION,
MATERIALS, AND TEACHING: A COLLABORATIVE EFFORT

School Division, Association of American Publishers
National Association for Research in Science Teaching
National Council of Teachers of Mathematics

Joint Conference
Atlanta Airport Marriott

March 17-18, 1986

MONDAY, MARCH 17, 1986:

9:00 AM - 9:45 AM

Registration and Coffee

9:45 AM - Noon

GENERAL SESSION (Room:)

Welcomes: Donald A. Eklund, Vice President, School
Division, Association of American Publishers

Dr. David P. Butts, President, National
Association for Research in Science Teaching

Dr. Sigrid Wagner, Chairman, Research Advisory
Committee, National Council of Teachers of
Mathematics

ISSUES IN SCIENCE AND MATHEMATICS INSTRUCTIONAL MATERIALS
REVEALED BY RECENT RESEARCH AND PRACTICE

Chair:

Speakers: Dr. David P. Butts, President, National
Association for Research in Science Teaching

Dr. John Dossey, Illinois State University

Reactors: (1)

(2)

MONDAY, MARCH 17, 1986:

Noon - 1:30 PM

Luncheon (Room:)

OPEN

Chair:

Speaker:

1:30 PM - 3:00 PM

WHAT RESEARCH SAYS ABOUT TEXTBOOK DESIGN & FORMAT

Chair:

Speakers: Dr. William G. Holliday, The University of Calgary

Dr. Marilyn Sudan, Ohio State University

3:00 PM - 3:30 PM

Coffee Break

3:30 PM - 5:00 PM

WHAT RESEARCH SAYS ABOUT CONCEPT LEARNING, PROBLEM SOLVING, AND SKILL LEARNING

Science:

Chair:

Speakers: Dr. Patricia Blosser, The Ohio State University

Dr. Marcia Linn, University of California at Berkeley

Dr. Kathleen Roth, Michigan State University

Mathematics:

Chair: Ms. Joanne E. Kane, Group Editor-in-Chief, Mathematics & Science, McGraw-Hill Book Company

Speakers: Dr. Thomas Carpenter, The University of Wisconsin

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Dr. Randy Charles, Illinois State University

Dr. Judy Threadgill-Sowder, Northern
Illinois University

7:00 PM - 9:00 PM

Dinner (Room:)

USING TECHNOLOGY IN INSTRUCTION IN SCIENCE AND
MATHEMATICSChair: Mr. Walter Koetke, Director of Technology,
Scholastic, Inc.

Speaker: Dean Alphonse Buccino, University of Georgia

TUESDAY, MARCH 18, 1986:

8:30 AM - 10:00 AM

WHAT RESEARCH SAYS ABOUT TEACHING, LEARNING, AND
EVALUATIONScience:

Chair:

Speakers: Dr. Charles Anderson, Michigan State
University

Dr. Ron Good, Florida State University

Dr. Jim Shymansky, The University of Iowa

Mathematics:

Chair:

Speakers: Dr. James Hiebert, University of Delaware

Dr. Doug Grauw, The University of Missouri

Dr. Mary Lindquist, Columbus College, GA

10:00 AM - 10:30 AM

Coffee Break

-4-

10:30 AM - Noon

THE INSERVICE CHALLENGE

Chair:

Speaker: Dr. Gene E. Hall, The University of
Texas at AustinDiscussants: Dr. James P. Barufaldi, The University
of Texas at AustinDr. Judy Dennison, Gwinnett County Schools,
Georgia

Dr. Steven Leinwand, Connecticut

Noon - 1:30 PM

Luncheon

ISSUES IN THE SELECTION PROCESS

Chair:

Speaker: Dr. Shirley Hill, The University of Missouri

1:30 PM - 3:30 PM

ISSUES FOR PUBLISHERS AND RESEARCHERS

Chair:

Panel: Marlowe Teig, Senior Vice President and Director,
Houghton Mifflin Company/School Division, and
Chairman, AAP School Division Executive CommitteeBeverly Anderson, Education Commission of the
StatesJoe Crosswhite, President, National Council of
Teachers of MathematicsDr. David P. Butts, President, National
Association for Research in Science Teaching

3:30 PM

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CHARTING THE COURSE OF CHANGE
AND PROGRESS IN SCIENCE TEACHING
THROUGHOUT THE WORLD...

The official journal of the National Association for Research in
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Editor: Russell H. Yeany, Jr., University of Georgia

THE JOURNAL OF RESEARCH IN SCIENCE TEACHING is a primary source of peer-reviewed reports on empirical studies and of reflective analyses of research in science teaching. These articles describe a significant range of current work directed toward understanding the task of science teaching and improving the effectiveness of teaching efforts. Topics include the relationship between gender and science achievement in the classroom, the link between different social and cultural biases and science skills, the influence of classroom climate on learning, the effects of particular curriculum, instructional systems, and teaching strategies on student performance in science, science tests and assessment instruments, surveying the needs of and for science teachers in specific countries and critical reviews of the literature.

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Marsha Lakes Matyas and
Jane Butler Kahle

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- O. Roger Anderson

Applications of Mathematical
Learning Models to Student
Performance on General Chemistry:
Microcomputer Drill and Practice
Programs
- Barbara S. Zitzewitz and
Carl F. Berger

The Effects of Computer-Assisted
Instruction and Locus of Control
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- Beth Eddinger Wesley,
Gerald H. Krockover
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- Frances Lawrenz

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