

NATIONAL ASSOCIATION FOR RESEARCH IN
SCIENCE TEACHING

Fall Board Meeting 1988
Little Rock, AR
November 4, 1988

PROPOSED AGENDA

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1988 Spring Meeting of the Executive Board
National Association for Research in Science Teaching
Lake Ozark, MO
April 10, 1988

MINUTES

Board Members in Attendance

| | |
|----------------------|-------------------|
| Dr. Charles Anderson | Dr. Ronald Good |
| Dr. James Barufaldi | Dr. Glenn Markle |
| Dr. Patricia Blosser | Dr. John Staver |
| Dr. Roger Bybee | Dr. Russell Yeany |
| Dr. Linda DeTure | Dr. Emmett Wright |
| Dr. Fred Finley | |

Others in Attendance:

Dr. Lowell Bethel
Dr. William Holliday
Dr. Robert Sherwood

- A. Opening Remarks by the President
B. Approval of Minutes Describing the 1987 Fall Meeting

Motion: Moved that the minutes of the November 5, 1987 meeting of the Board be approved. (Good, Staver)

Motion approved.

- C. President Elect's Report

The President Elect report was presented by Patricia Blosser. The proposed "leadership team" for 1988 was reviewed and the membership discussed by the Board. There was some confusion because members of the JRST Awards Committee were listed with another committee. This will be corrected and a clean listing of the 1988 leadership team will be distributed to the Board through the NARST News.

Motion: Moved that the President Elect's report be accepted. (Good, Yeany)

Motion carried.

E. Past President's Report

The Past President's report was presented by Jim Barufaldi.

The Past President served as the chair of the Elections Committee and the Policy Advisory Committee during 1987. He submitted materials to be included in the Policy Handbook and presented a NARST-supported paper at the NSTA Area Convention in San Antonio. In addition, Jim represented NARST with Linda DeTure and David Butts at the Second Regional Consultation in Science and Mathematics Education Research in San Jose, Costa Rica where he presented the paper, "Issues and Concerns in Implementing Change in Science Education."

Motion: Moved that the Past Presidents¹ report be accepted.
(Bybee, Good)

Motion Carried.

F. Executive Secretary's Report

Glenn Markle presented the Executive Secretary's report.

The following members were recommended for Emeritus Status:

Roy Allison (Penn State)
Gene Deady (California State in Chico)
George Mallison (Western Michigan)
Jacqueline Mallison (Western Michigan)
John Renner (University of Oklahoma)
David Redfield (Florida State)
Richard Smith (San Jose State, California)
Duane Smith (Penn State, Capitol Campus)
Frank X. Sutman (Fairleigh Dickerson).

Motion: Moved that the recommended candidates be approved for emeritus status. (Anderson, Wright).

Motion carried.

Markle proposed that the Board begin planning for the transition to a new executive secretary. The current term ends on December 31, 1989. Markle suggested that NARST purchase a hardware system that would ease the transfer of information from one Executive Secretary to the next. Ron Good suggested that hardware might not be a problem, that the next Executive Secretary might have all the hardware needed but have other requirements to enable a smooth transition. He suggested that funds be set aside between now and 1990 but that the funds be ear-marked as transition funds without specifying how they would be spent.

H. Publication Advisory Committee

The Publication Advisory Committee report was presented by Ron Good. The focus of the discussion was the proposed "fast back" series that would be directed toward members of NARST and other researchers interested in science education. Ron and Andy Anderson each provided a set of ideas about the fast back series. The sense of the Board was that publishing these materials may be risky -- we could lose money on this venture -- but that the potential benefits outweighed the risks involved. Publishing commissioned papers summarizing the research in a specific area in JRST was not generally supported by the Board.

Motion: Moved that the Publication Committee proceed on the fast-back. The publication is to be produced during the coming year. Topics and authors need to be identified and publication be prepared as a separate publication, printed and distributed by NARST at the 1989 Annual Meeting. (Bybee, Wright)

After a extended discussion of the mechanics and procedures for preparing a fast back and of several concerns (use of grant funds or other external support to assist with the cost; channels for distribution of the fast back; will the materials be cited and thereby improve the status of the publication; and use of the publication to further "establish" science education research as a profession), the question was called.

Motion carried.

Motion: Moved that the report of the Publication Advisory Committee be accepted. (Staver, Anderson)

Motion carried.

I. Policy Advisory Committee

The report of the Policy Advisory Committee was presented by Jim Barufaldi. The Committee had no recommendations at this time.

Motion: Moved that the Policy Advisory Committee report be accepted. (Good, Anderson)

Motion carried.

L. Elections Committee Report

The report of the Elections Committee was presented by Jim Barufaldi after all non-Board members were excused. Some questions had been raised about the timely fashion in which ballots had been distributed to members and whether the by-laws had been followed in the 1988 elections. Markle reported the following:

the NARST Bylaws state that

Ballots shall be mailed by the Executive Secretary to all members eligible to vote two months prior to the Annual Meeting. The completed ballots shall be returned to the chairperson of the Election Committee for counting no later than four (4) weeks from the date of the mailing to members.

Election shall be by a plurality, in serial order. In event of a tie vote, the decision shall be made by vote of the members present at the Annual Meeting.

The date of the 1988 Annual Meeting was April 10, 1988. In January 1988, election materials were prepared to be mailed to 763 members who had paid 1987 dues or were emeritus/life members. A list of members receiving ballots is available for review. Ballots were printed on post-cards which were pre-addressed to Jim Barufaldi, chairperson of the Elections Committee. On February 1, 1988 a set of Cheshire mailing labels and unsealed envelopes containing the ballots, material describing the candidates, and a letter to members was delivered to the University of Cincinnati post office. The post office has a machine which glues labels onto and then seals envelopes. The post office was directed to mail all election materials first-class. I checked with the post office on February 9 and was told that the material had been mailed. At that time I learned that materials addressed with a U.S. zip code had been mailed third-class and all others had been mailed first class. I received my ballot on or about 16 February 1989.

Jim Barufaldi reported that 276 ballots were received by last date to receive ballots (which was set at March 11 because ballots were coming in at a goodly rate early in March. Jim made this decision after consulting with the

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the executive secretary, and interested members of the Board could also be mailed information.

This presentation helped to make more clear why NARST should continue membership in ICASE. The NARST News should be mailed to the ICASE Executive Secretary:

Dr. Jack Holbrook
Department of Professional Studies in Education
University of Hong Kong
Hong Kong

N. Awards Steering Committee

The report of the Awards Steering Committee was presented by Mike Padilla. John Renner will receive the award for Outstanding Science Educator in 1988.

Mike expressed concern that more nominations are needed for next year and encouraged members of the Board to be more actively involved in seeking and making nominations. Mike will work with Ann Howe, the new chairperson of this committee to assure that information about past nominees is passed on.

Motion: Moved that the Awards Steering Committee report be accepted. (Bybee, Finley)

Motion carried.

O. JRST Awards Committee.

The JRST Awards Committee report was presented by John Staver. There was a three-way tie for the award which John interpreted to mean that a wider variety of research methodologies are now acceptable to NARST reviewers. The winners of the award are:

Ken Tobin and Jim Gallagher

Robert Sherwood, Charles Kinzer, John Bransford,
and Jeffery Franks

and

Anton Lawson.

Motion: Moved that the report of the JRST Awards Committee be accepted. (Wright, Barufaldi)

Motion carried.

provide the financial support needed to print the Proceedings.

R. Editors Report

Russell Yeany presented the Editor's report. The Journal is in good shape. The number of manuscripts submitted during the past year was somewhat down, but this was viewed as an opportunity rather than a problem. Perhaps there will be a chance to have some special issues that focus on specific areas of concern.

The new editor will have control of manuscripts to be published after December 31, 1989. Russell will work with authors of manuscripts to be published before that date. There is approximately a one year back-log of manuscripts.

Motion: Moved that the Editor's report be accepted. (Good, Staver)

Motion carried.

S. Written Reports Referenced

Attention was directed to four written reports included in the Board Book:

| | |
|--------------------|-------------------|
| NARST Archives | by Paul Joslin |
| AAAS | by David Lockard |
| ISE Advisory Board | by John Koran and |
| Triangle Coalition | by Robert Howe. |

Clarification is needed regarding sending JRST to the African libraries as requested by David Lockard. Linda DeTure will gather additional information about this.

T. Other Old Business

A. Wiley Contract. The contract with Wiley has been signed and they will continue as publishers of the Journal for the next five years. Copies of the contract are available from the Executive Secretary.

U. New Business

A. Planning Sessions. President DeTure expressed the need for the NARST Board to engage in long range planning beyond what can be accomplished at the annual Board meetings and suggested that a day be set aside immediately before or after the Fall Board meeting to engage in planning. Discussion of this matter was delayed until the next Board meeting.

1988 Spring Meeting of the New Executive Board
National Association for Research in Science Teaching
Lake Ozark, MO
April 12, 1988

MINUTES

Board Members in Attendance

| | |
|----------------------|----------------------|
| Dr. Charles Anderson | Dr. Ronald Good |
| Dr. Lowell Bethel | Dr. William Holliday |
| Dr. Patricia Blosser | Dr. Glenn Markle |
| Dr. Roger Bybee | Dr. Robert Sherwood |
| Dr. Linda DeTure | Dr. Russell Yeany |
| Dr. Fred Finley | Dr. Emmett Wright |

A. Opening Remarks by the President

The meeting of the Board began at 6:35 p.m. with opening remarks by Patricia Blosser. Pat indicated that while motions will be accepted during this Board meeting, no votes will be taken. All motions will be included in the minutes and written votes will be returned to Glenn Markle who will report results back to the Board.

B. Minutes Describing the 1988 Spring Meeting

The minutes of the April 10 meeting of the Board were distributed. Board members were asked to forward comments and corrections to Glenn Markle by May 1 when the official version of the minutes will be sent to Board members. Acceptance of the minutes of the April 10 and April 12 meetings of the Board will be voted upon at the Fall meeting of the Board.

Motion: Moved that the minutes of the April 10 meeting of the Board be "received." (Holliday, DeTure)

C. Financial Advisory Committee

The Financial Advisory Committee report was presented by Emmett Wright. The following issues were discussed by the Financial Advisory Committee:

1. Fiscal Year Change. Moving the fiscal year from January 1 - December 31 to July 1 - June 30. This change would bring the NARST budget year in line with most university budget years and make the

D. Publication Advisory Committee

The Publication Advisory Committee report was presented by Ron Good. The following issues/topics were discussed at the Publication Advisory Committee meeting:

- 1. The focus of the discussion was the proposed "fast back" series. The announcement on April 11th to the members at the annual meeting was determined to be "the announcement" to the membership that a fast back will be published. A notice of this decision should appear in the next news letter.

Motion: Moved that \$1500.00 be allotted for the preparation and publication of the first fast back during 1988; that funds up to \$250.00 of the \$1500.00 may be paid to the author(s) to support the preparation of the manuscript; and that the fast back be presented at a special session of the annual NARST meeting in 1989. (Good, Yeany).

The Board confirmed its intention that the responsibility to commission and oversee the preparation of the fast back rests with the Publication Committee.

E. Policy Advisory Committee

The report of the Policy Advisory Committee was presented by Linda DeTure.

The following topics were discussed by the Policy Advisory Committee:

- 1. Policy and Procedures Handbook. Work will continue on the handbook. Copies of the handbook sections will be sent as "hard copy" and on disk to facilitate revisions.

The question of whether past practice is equivalent to policy was raised but not resolved. Andy Anderson suggested that the handbook may be viewed as a proposal to the Board to be acted upon as a vehicle for codifying policy and bringing policy and practice into agreement.

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G. Research Committee

The report of the Research Committee was presented by Roger Bybee. The following topics were discussed at the Research Committee meeting:

1. Research Matters. Two topics are being considered as titles for future Research Matters: attitudes (Tom Kobally?) and College Laboratory Instruction (??). If Board members have suggestions, forward them to Roger.
2. Training Sessions. Names suggested for next year's training sessions include Bob ^{Tinker} ~~tinder~~ and Ray Hanniple presenting on technology and grant writing respectively. Bill Holliday suggested using our own members whenever possible. Russ expressed concern that the training sessions need to be research oriented, not just technology by itself. Andy liked the idea of having Tinker do a training session on technology.
3. Fast back. The Research Committee supported the Learning Cycle and Classroom Management as topics for the first fast back.

play -- when articles are published, how many articles in a given issue, and so forth.

Roger suggested not changing our current procedures but to carefully monitor the impact of the increase in the variety of methodologies on the ability of the Committee to select a single winner.

P. Distinguished Contributions Award Committee

Linda DeTure reported on the meeting of the Committee. The Distinguished Contributions Award Committee will continue to function in the same way as in the past.

Q. Ad hoc Committees

1. International Committee.

Report presented by Linda DeTure.

Motion: Moved to bring tabled motion regarding the International Committee back onto the table. (Markle, Holliday)

Motion: Moved that NARST endorse the publishing of the Consultation Proceedings (abstracts) from the Second Regional Consultation for Research in Science and Mathematics Education held in San Jose, Costa Rico. (DeTure, Anderson)

The International Committee has requested a budget of \$100.00 to support duplication/mailing expenses. This request was referred to the Financial Advisory Committee for consideration. The Board did not oppose supporting the Committee but was uncertain of the implications and needed more time to consider the matter.

The Third Regional Consultation for Research in Science and Mathematics Education will be held in Venezuela next year. The Committee requested a letter from NARST endorsing the meeting.

Motion: Moved that NARST endorse the Third Regional Consultation for Research in Science and Mathematics to be held in Venezuela. (DeTure, Holliday)

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in the Fall. Linda and Pat will generate a list of issues to be circulated to the Board. Members of the Board can add to or delete from the list and the agenda will be built based upon responses from Board members.

2. Search for New Executive Secretary

The urgency of establishing a search committee to identify the next executive secretary was relieved when Bill Holliday (thanks a lot Bill!) pointed out that Markle's term expires on December 31, 1991 rather than December 31, 1990. Nevertheless, the transition to a new executive needs to be well planned and within the next year, plans for creating the search committee should be finalized. The planning session in the Fall may help to clarify some of the issues involved in the transition.

Pat again expressed the appreciation of the Board to Linda DeTure for her service as president and the Board congratulated Pat on the excellent annual meeting which she had led.

The Spring meeting of the new Board adjourned at 9:55 p.m.

Report of the
NARST Financial Advisory Committee Meeting
to the NARST Board of Directors

November 4, 1988

The Financial Advisory Committee (FAC) met by long distance conference call on October 5, 1988 to carry out its charge to consider the proposed annual budget, approve program expenses, approve publication costs and new ventures, offer advise and recommendations to the Board regarding all financial affairs of the Association, and conduct an annual audit of the financial accounts of the Association. The following is a report of discussions, motions and recommendations of the FAC to the NARST Board of Directors.

1. Glenn Markle, Executive Secretary, summarized the 1987 Budget through September 1, 1988. The income and expenditures were reviewed by the committee members. No issues arose during the discussion. Markle indicated that membership continues to increase and this is contributing a healthful balance in the budget. Over the past two years membership has grown from 525 to 780.
2. Markle summarized the proposed 1989 budget. Discussion ensued with respect to several aspects of the proposed budget. Minor modifications in the budget proposal included:
 - (A) Adding \$1,000 in savings to support the transition to a new executive secretary (Note: \$1,000 per year will be set aside for 1989, 1990, and 1991 fiscal years until a fund of \$3,000 has been established);
 - (B) Adding \$1500 for the preparation and publication of the first back series.

The FAC voted unanimously to recommend the adoption of the proposed 1989 budget by the NARST Board of Directors.

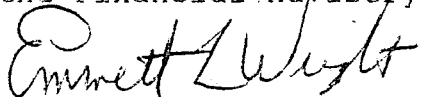
3. The committee discussed the financial report of Louis Fisher, Fiscal Officer at the University of Cincinnati. Mr. Fisher certifies that the expenditures for the year ending December 31, 1987 summarized in his report were paid and that vouchers are available for audit purposes. The committee accepted the report and recommends unanimously that the NARST Board of Directors accept it.

- 4. The committee discussed the need to maximize dividends from set aside funds. It is the goal to develop a reserve fund of \$20,000. There is need to explore the various ways to invest the funds other than in a savings account. Glenn Markle and Emmett Wright will discuss options with the Board of Directors.

Motions/Recommendations

- A. Accept and recommend the proposed 1989 budget with modifications above to the NARST Board of Directors. Passed unanimously.
- B. Accepted the University of Cincinnati fiscal officer's report of the analysis of the NARST books for January 1, 1987 through December 31, 1987 and recommends unanimously that the NARST board accept the report.
- C. Directed Markle and Wright to explore with the Board options to maximize income from set aside funds.

Respectfully submitted for
the Financial Advisory Committee,



Emmett L. Wright, Chair
November 4, 1988

ELW/tjh

EXECUTIVE SECRETARY

Dr. Glenn Markle
NARST
University of Cincinnati
Cincinnati, OH 45221-0002
(513) 475-2335

Organized to improve science teaching—through research



NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

PRESIDENT

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Science & Mathematics Education
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Columbus, OH 43210-1172

PRESIDENT-ELECT

Dr. William G. Holliday
Science Teaching Center
The University of Maryland
College Park, MD 20742

IMMEDIATE PAST PRESIDENT

Dr. Linda DeTure
Education and Human Development
Rollins College
Winter Park, FL 32789

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Dr. Fred Finley (1990)
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Dr. Robert Sherwood
College Box 45, Peabody
Nashville, TN 37203

Dr. Emmett Wright (1989)
Dept. of Curriculum and Instruction
Kansas State University
Manhattan, KS 66506

TO: Pat Blosser
FROM: Linda R. DeTure, Chair
Pat Blosser
James Shymanski
John Staver
Glen Markle, Ex-Officio

DATE: October 10, 1988

RE: Policy Committee Fall Report

The charge of the Policy Committee is to review the By-laws, changes in structure or orientation of the Association, and to review new activities or ventures of the Association. Thus, it was appropriate to have the committee review the "draft" of the Policies and Procedures Handbook.

The committee members noted that actual practice does not always coincide with policy. Moreover, many of the practices and procedures carried out by the officers and committees have no specific policies for guidelines.

Recommendation: That the Board take action to have the practices of the association be more in agreement with policies.

JOURNAL EDITOR

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And Evaluation Lab
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NARST-NEWS EDITOR

Dr. Thaddeus W. Fowler (1989)
University of Cincinnati
Cincinnati, OH 45221-0002

EXECUTIVE SECRETARY

Dr. Glenn Markle
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NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

PRESIDENT

Dr. Patricia E. Blosser
Science Education
The Ohio State University
Columbus, OH 43210-1172

PROGRESS REPORT

PROGRAM COMMITTEE

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING
OCTOBER 1, 1988

PRESIDENT-ELECT

Dr. William G. Holliday
Science Teaching Center
The University of Maryland
College Park, MD 20742

The Program Committee is pleased to confirm the information contained in the 1989 program announcement appearing in the NARST Newsletter.

IMMEDIATE PAST PRESIDENT

Dr. Linda DeTure
Education and Human Development
Rollins College
Winter Park, FL 32789

First, John Bransford of Vanderbilt University, specialist in classroom cognition and one of the best received NARST speakers during this decade, will return to present recent advances in student thinking and problem solving. He will also describe his current research as it relates to his recent award-winning JRST study, using video disk equipment and presented on oversize monitors.

BOARD MEMBERS-AT-LARGE

Dr. Charles Anderson (1990)
College of Education
Michigan State University
East Lansing, MI 48824

Dr. Lowell J. Bethel (1991)
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Dr. Robert Sherwood
College Box 45, Peabody
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Dr. Emmett Wright (1989)
Dept. of Curriculum and Instruction
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Manhattan, KS 66506

Second, Martin Maehr of the University of Illinois, an active researcher in achievement-motivation and an excellent speaker will present paradigms, findings and methodologies useful in investigating classroom motivation problems of science teaching. He authored science-motivation works in AERA's Review of Educational Research and the famous research review, "On doing well in science: Why Johnny no longer excels; Why Sarah never did."

Third, both general speakers will hold follow up sessions for active research particularly interested in asking questions and clarifying points of interest.

Fourth, NARST is negotiating with two additional people of prominence, one being a well known scientist and the other being an excellent speaker from a major funding organization.

Fifth, the program committee intends to mail the printed program to its members in early February.

JOURNAL EDITOR

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

Sixth, a special field trip to a famous nearby science museum is being planned and includes a hosted wine-and-cheese reception for NARST members. The program committee seeks your reactions to these plans still under negotiation and your suggestions for the upcoming San Francisco meeting, Holiday Inn On Union Square, March 30 to April 1, 1989.

RESEARCH COORDINATOR

Dr. Rodger Bybee (1989)
B.S.C.S
Colorado College
Colorado Springs, CO 80903

NARST-NEWS EDITOR

Dr. Thaddeus W. Fowler (1989)
University of Cincinnati
Cincinnati, OH 45221-0002

We have letters of confirmation from Drs. Bransford and Maehr (now, Maehr is professor of education and professor of psychology, University of Michigan.) The mentioned scientists in the Newsletter is Dr. Glen Seaborg, Noble Prize laureate in chemistry, University of California at Berkeley. The museum mentioned in the article is the exploratorium located about 15 minutes from the Holiday Inn On Union Square. The speaker, from a major funding organization, is Dr. Alan Schmieder, Chief, Title II Program (Mathematics, Science Computer Learning, Foreign Languages), US Department of Education, who is scheduled to guide attendees at the San Francisco meeting in their preparation of research proposals to the Federal government with an emphasis on large funds available through the Department of Education. His presentation will follow an invited symposium on proposal writing designed for less-experienced NARST members and conducted by Dr. Emmett Wright and others from Kansas State University.

→ The Program Committee continues to work with Michael Jay and Mary LeDonne, co-coordinators of the 1989 NARST west coast arrangement committee. These two hard working people along with Katherine O'Sullivan, chair of the local arrangements committee, are all working hard to provide attendees at our San Francisco meeting with a memorable meeting. In this regard, we request the board to approve spending 45 cents per attendee while receiving an excellent map of San Francisco and a 90-page brochure describing the city.

→ We also request that the Board approve a one-time proposal to award Dr. Glen Seaborg recognition for his valuable work related to science teaching. Please authorize the program committee to award Dr. Seaborg a plaque at the exploratorium reception during a short ceremony presided by Fat Blossor.

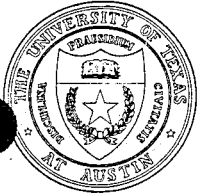
Drs. Lynn Dierking (recent University of Florida graduate) and John Falk (University of California-Berkeley graduate), both experts in research on informal learning, are scheduled to assist me at the University of Maryland of College Park on Saturday, October 29, by reading proposals arriving after our deadline and proposals with widely differing reviews from my regular program committee members.

I intend to request members of the program committee to edit our "call for proposals", perhaps resulting in two or three good versions for use by the next president-elect.

I intend on forming an ad hoc operations committee with a goal of including more members in the operation and execution of our annual meeting. Each person will be in charge of an independent component of the meeting. For example, one person will be assigned to each of the following domains: banquet, distribution and security of overhead projectors, Dr. Maehr's liaison representative, networking groups and the new members' reception, etc.



I further recommend that we conduct a one-time experiment. Let's forgo our training sessions and save the \$1,000.00 in unspent funds to booster our meager reserve. Besides, we are meeting with AERA which is making available many training sessions (at a significant profit) to their association unlike our currelnt arrangement. In addition, our numbers will have a special preession of a different kind this year--visiting the Exploratorium.



COLLEGE OF EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN

Science Education Center • Austin, Texas • (512) 471-7354

October 19, 1988

To: NARST BOARD MEMBERS

From: Lowell J. Bethel^{LB}

Subject: JRST Awards Committee Report

There is not much to report at this time. Finally, evaluation assignments for volume 25 have been mailed to all members of the Awards Committee. I checked carefully with Russ Yeany to be sure that there would be no conflicts of interest with the committee members. All articles in volume 25 are scheduled to be read at least two times by two readers. I have already received one set of evaluations.

After all evaluations have been tallied the highest rated article from each of the issues will be reviewed for the outstanding article. As you can see this is the same procedure used in the past. After some discussions with the former chair, John Staver, I saw no reason to suggest changes to the committee members. As soon as I have the final results in early 1989 I will report them to the board members and the president.

Pat-- There were only 3 papers that were scored highly enough to warrant inclusion in the NSTA program. These three were sent to NSTA -



UNIVERSITY OF MINNESOTA
TWIN CITIES
Department of Curriculum and Instruction
College of Education
Peik Hall
159 Pillsbury Drive S.E.
Minneapolis, Minnesota 55455-0208

Dina Weiss
National Science Teachers Association
1742 Connecticut Ave. NW
Washington D.C. 20009

October 11, 1988

Dear Dina,

The following is the information that I believe you need for the NSTA program. All of these papers are NARST sessions. The first paper was the 1988 NARST Practical Applications Award winner. No presiders were suggested by the authors.

Paper I

Zoller, Uri and Ben-Chaim, David Interaction Between Examination Type, Anxiety State and Academic Achievement in College Science: An Action Oriented Research.

Address: Uri Zoller
Studies, Department of Science Education
Haifa University - ORAN
Kiryat Tivon Israel 36919
Phone: Not Available

Audience: High School / College
Estimated Audience: 50
Subject: General Interest
Time Needed: 1 hour

Paper II

Gabel, Dorothy and Schrader, Clifford The Particle Nature of Matter Approach: Its Effectiveness on Chemistry Achievement

Address: Dorothy Gabel
School of Education
Indiana University
Bloomington, Indiana 47405
Phone: (812) 335-8658

Clifford Schrader
Dover High School
520 Walnut Street
Dover, Ohio 44622
Phone: (216) 343- 7746

Audience: High School
Estimated Audience: 50
Subject: Chemistry
Time Needed: 1 hour

Paper III

Kyle, William, Jr., Ron Bonnstetter, Thomas Gadsen, and
Maria A. Sedotti Implementation and Development of an
Exemplary Elementary School Science Program

Address: William Kyle, Jr.
School Mathematics and Science Center
Purdue University
West Lafayette, Indiana 47907
Phone: (317) 494- 2359


Address: Ron Bonnstetter
211 Henzlik Hall
University of Nebraska
Lincoln, Nebraska 68588
Phone: (402) 472 2443

Address: Thomas Gadsen, Jr.
Richardson Independent School District
Division of Instructional Services
Richardson, Texas 75080

Address: Maria A, Sedotti
Department of Curriculum and Instruction
University of Connecticut
Storrs, Connecticut 06268

Audience: Elementary Teachers/ Science Supervisors
Estimated Audience: 50
Subject: Elementary School Science
Time Needed: 1 hour

Sincerely,


Fred N. Finley

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

REPORT

Distinguished Contribution Award Committee

The 1987-88 Committee met during the Annual Meeting for a general discussion of committee procedures and other matters. One item of concern is that several members have been nominated several times with the same papers presented year after year. No action was taken but there was a consensus to discourage this and to make NARST members aware that this is not appropriate.

The Call for Nominations has been published in the Newsletter with a January 16th deadline for nominations to be received. The Committee reiterated and affirmed that this is a research award, not a service award. The members were unanimous in the belief that it is inappropriate to present this award to anyone who has not been actively and continuously involved in significant research for a number of years.

As Chair of the Committee I invite all Board members, as individuals, to give serious consideration to making a nomination for this important award.

Ann C. Howe

Ann C. Howe, Chair

October 5, 1988

REPORT FROM EXECUTIVE SECRETARY

Submitted by

Glenn C. Markle, Executive Secretary
October 10, 1988

1. Membership

NARST's membership as of October 1, 1988 is 631 regular members, 98 student members, 2 spouse member, and 44 emeritus member, a total of 775 members, of whom 729 receive journals. We have thirty-six Canadian members and fifty-nine other international members. Journal subscription figures for the current year and for the past seven years are as follows:

| <u>Year</u> | <u>U.S. Mems</u> | <u>Canadian</u> | <u>Other Inter.</u> | <u>Total</u> |
|-------------|------------------|-----------------|---------------------|--------------|
| 1988 10/01 | 634 | 36 | 59 | 729 |
| 1987 12/31 | 616 | 37 | 66 | 719 |
| 1986 12/31 | 510 | 36 | 63 | 609 |
| 1985 12/31 | NA | NA | NA | 504 |
| 1984 10/01 | 496 | 53 | 55 | 604 |
| 1983 10/01 | 452 | 43 | 48 | 543 |
| 1982 10/01 | 456 | 43 | 48 | 547 |
| 1981 10/01 | 559 | 47 | 54 | 660 |

Since 1985, the number of members receiving the journal has increased steadily. The increase in annual dues for 1988 did not appear to have a negative impact on our membership.

NARST has been successful in attracting new members over the past two years. At the end of 1986, we had 609 members receiving JRST; at the end of 1987, 719 members. Our 1988 budget was based upon a total of 673 dues-paying members, an estimate which we exceeded by approximately nine percent. Dues notices for 1989 will be mailed out in early November. Any help or suggestions you have for encouraging potential NARST members would be appreciated.

- 2. Minutes of the two Spring Board meetings were mailed to members of the Board in September. All motions made during the meeting of 12 April 1988 were passed. A copy of the revised minutes showing the motions approved will be distributed at the fall meeting.

3. San Francisco in 1989

Arrangements have been made for the 1989 meeting to be held at the Holiday Inn in San Francisco, March 30 through April 1, 1989. Our meeting will overlap by one day with the end of the AERA meeting.

The preregistration fee for the 1989 conference will be \$70.00 (awards luncheon included). The registration fee for students and emeritus members will be \$20.00 (the cost of the awards luncheon). These rates are the same as this year's. On-site registrations will be an additional \$10.00.

4. Atlanta in 1990

The 1990 meeting will be before or after the NSTA meeting in Atlanta. (April 1-4 or April 8-11. Easter is April 15.) The most probable meeting dates are April 8-11 since there is a city-wide meeting from April 1-4, 1990. I gathered information on potential meeting sites in Atlanta and conducted on-site inspections this summer. Proposals from at least three sites for this meeting will be presented to the Board.

5. Chicago in 1991

Information about several potential meeting sites for the 1991 meeting has been collected and on-site inspections were completed this summer. The meeting will be held April 1-4 or April 7-10. AERA plans to meet from April 4-7, 1991. Easter will fall on March 31, 1991. Proposals from four sites will be presented to the Board for consideration at the Fall Board Meeting.

6. Boston in 1992

Information from potential meeting sites in Boston is currently being collected.

7. Financial Reports

The records of receipts and expenditures during 1987 and through September 1, 1988 and a budget proposal for 1989 were mailed to Board members in September. Copies are attached to this report. The Finance Committee discussed the proposed budget during a conference phone call on October 5. The budget proposal is submitted to the Board for consideration.

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING
PROPOSED BUDGET FOR 1989

RECEIPTS

| | | | |
|----|--|-------------|-------------|
| 1. | Balance Brought Forward | | \$ 8,372.00 |
| | General Funds | \$ 3500.00 | |
| | Delta Project | 2872.00 | |
| | Savings Account | 2000.00 | |
| 2. | Membership Dues | | 37,290.00 |
| | Regular (650 @ \$54.00) | \$35,100.00 | |
| | Student (70 @ \$30.00) | 2,100.00 | |
| | Emeritus (3 @ \$30.00) | 90.00 | |
| 3. | Annual Meeting | | 22,100.00 |
| | Preregistration (250 @ \$70.00) | \$17,500.00 | |
| | Late Registration (50 @ \$80.00) | 4,000.00 | |
| | Workshop Registration (60 @ \$10.00) | 600.00 | |
| 4. | Other | | 57,000.00 |
| | Renting Mailing Labels | \$ 500.00 | |
| | Royalties from Wiley | 2000.00 | |
| | Contributions from the U.G.A. (Journal Editor) | 26,000.00* | |
| | Contributions from U.C. (Exec. Sec.) | 28,500.00** | |

TOTAL EXPECTED RECEIPTS (Total of 2 through 5) \$116,390.00

* This is the non-cash contribution of the University of Georgia in support of the Journal.

** This is the non-cash contribution by the University of Cincinnati in support of the Executive Secretary's office.

DISBURSEMENTS

| | | |
|----|--|---------------|
| 1. | <u>Journal of Research in Science Teaching</u> | \$44,352.00 |
| | Wiley Publishers (723 @ \$24.00) | \$17,352.00 |
| | Journal Editor Salary* | 19,000.00 |
| | Journal Secretary* | 7,000.00 |
| | Journal Postage and Supplies | 1,000.00 |
| 2. | Annual Meeting | \$22,800.00 |
| | Programs (750 @ \$4.00) | 3,000.00 |
| | Abstracts (750 @ \$2.00) | 1,500.00 |
| | Awards | 100.00 |
| | Training Sessions | 400.00 |
| | Travel/Hotel | 700.00 |
| | Speakers (2 @ \$600.00) | 1,200.00 |
| | Travel/Hotel | 700.00 |
| | Supplies/AV | 3,000.00 |
| | Travel for Editor and Exec. Sec. | 2,000.00 |
| | Travel for 1991/92 Program Site | 1,800.00 |
| | Site Reviews | |
| | Travel, Planning 1989 Meeting | 1,800.00 |
| | Pres. Elect/Exec. Sec. | |
| | Awards Banquet (300 @ \$20.00) | 6,000.00 |
| | Coffee Breaks (2 @ \$300) | 600.00 |
| 3. | Officers/Executive Board | \$10,900.00 |
| | President Elect | 700.00 |
| | President | 1,000.00 |
| | Past President | 700.00 |
| | NARST Archivist (P. Joslin) | 200.00 |
| | Executive Board Meetings | |
| | Spring - San Francisco, CA | 500.00 |
| | Fall (13 @ \$600.00) | 7,800.00 |
| 4. | Executive Secretary | \$32,200.00 |
| | Executive Secretary Salary (33%) | \$21,000.00** |
| | Secretary | 7,500.00** |
| | Supplies/Printing | 1,500.00 |
| | Postage | 1,200.00 |
| | Telephone | 750.00 |
| | Miscellaneous | 250.00 |

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

** This is the specific contribution by the University of Cincinnati in support of the Executive Secretary's office.

PROPOSED BUDGET FOR 1989
PAGE 3

5. Other \$ 8782.00

| | |
|-------------------------|---------|
| ICASE | 60.00 |
| Triangle Coalition | 100.00 |
| Newsletter (4 Issues) | 4000.00 |
| Research Matters | 250.00 |
| Delta Testing Monograph | 2872.00 |
| Publication (Fast Back) | 1500.00 |

TOTAL DISBURSEMENTS \$119,034.00

SUMMARY

| | |
|-----------------------------|-------------|
| Initial Balance (Projected) | \$ 6,372.00 |
| Savings Account Balance | 2,000.00 |
| Anticipated Receipts | 116,390.00 |
| Anticipated Expenses | 119,034.00 |
| Added To Savings | 2,000.00 |
| Initiate Transition Fund | 1,000.00 |
| Anticipated Cash Balance | \$ 2,728.00 |
| At The End of the Year | |

NARST BUDGET SUMMARY

January 1 through September 1, 1988

This budget summary is presented in three parts. The first page reports where we were at the beginning of the year, give summaries of our income and expenditures, and reports our balances as of September 1, 1988. The columns titled "Balance Relative to Budget for 1988" report the differences between our budgeted incomes and expenses and our actual receipts and expenditures.

Page two presents details about our receipts, and the remaining pages present details about our expenditures.

NARST BUDGET SUMMARY - 1988
Through September 1, 1988

=====

BEGINNING OF YEAR

| | Initial Balance (1/1/88) | Encumbered Funds | Budget Balance |
|---------------------|--------------------------------|---------------------|-------------------|
| NARST General Funds | 5307.74 | 2245.00 | 3062.74 |
| Delta Project Funds | 2872.62 | | 2872.62 |
| TOTAL FUNDS | 8180.36 | 2245.00 | 5935.36 |

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INCOME SUMMARY

| ITEM | BUDGETTED AMOUNT | ACTUAL RECEIPTS | BALANCE RELATIVE TO BUDGET FOR 1988 |
|-----------------------|---------------------|--------------------|--|
| Membership Dues | 34590.00 | 35383.80 | 793.80 |
| Annual Meeting Income | 17600.00 | 17884.50 | 284.50 |
| Other Income | 52800.00 | 53687.79 | 887.79 |
| TOTAL | 104990.00 | 106956.09 | 1966.09 |

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EXPENDITURE SUMMARY

| ITEM | BUDGETTED AMOUNT | ACTUAL DISPERSEMENTS | BALANCE RELATIVE TO BUDGET FOR 1988 |
|----------------------------|---------------------|-------------------------|--|
| Member expenses inc. JRST | 16152.00 | 17923.55 | -1771.55 |
| Journal Postage & Supplies | 1000.00 | 1564.81 | -564.81 |
| Annual Meetings | 18000.00 | 18071.97 | -71.97 |
| Officer/Board Expenses | 8100.00 | 3287.46 | 4812.54 |
| Exec Sec Expenses | 3700.00 | 1283.95 | |
| Research Matters | 250.00 | 198.00 | 52.00 |
| NARST News | 4000.00 | 2367.05 | 1632.95 |
| Delta Project | 2872.00 | | 2872.00 |
| Other (ICASE, etc.) | 160.00 | 100.00 | 60.00 |
| U.Ga. & U.C. Expenses* | 50500.00 | 50500.00 | 0.00 |
| TOTAL | 104734.00 | 95296.79 | 7021.16 |

*NON-CASH EXPENDITURES. SUPPORT FOR JOURNAL EDITOR AND EXECUTIVE SECRETARY SUPPORT

=====

BALANCES AS OF
SEPTEMBER 1, 1988

| | INITIAL BALANCE | INCOME | EXPENDITURES | BALANCE |
|---------------|--------------------|------------------|-----------------|-----------------|
| NARST | 5307.74 | 106956.09 | 95296.79 | 16967.04 |
| DELTA PROJECT | 2872.62 | 0.00 | 0.00 | 2872.62 |
| TOTAL | 8180.36 | 106956.09 | 95296.79 | 19839.66 |

=====

Major anticipated expenses for the remainder of the year include the Fall Board Meeting (est. \$7,000), NARST News for September and December (\$2000), mailings to members for 1989 conference, dues notices, and elections (\$2000). After these expenses and setting aside 3% of the gross income for savings as directed by the Board (\$2000), the end of the year balance in the NARST general funds should be approximately \$3,500.

BUDGET RECEIPT AND EXPENDITURE DETAILS

NARST GENERAL FUNDS
RECEIPTS

| | BUDGETTED INCOME | ACTUAL RECEIPTS | CATEGORY BUDGET BALANCE |
|------------------------|---------------------|--------------------|----------------------------|
| Membership Dues | | | |
| 1988 Dues | 34590.00 | 35217.80 | 627.80 |
| 1989 Dues | | 166.00 | 166.00 |
| Other | | 0.00 | 0.00 |
| TOTAL | 34590.00 | 35383.80 | 793.80 |
| Annual Meeting | | | |
| Registrations | 17000.00 | 17199.50 | 199.50 |
| Train. Sess. | 600.00 | 685.00 | 85.00 |
| TOTAL | 17600.00 | 17884.50 | 284.50 |
| Other Income | | | |
| Mailing Lists | 300.00 | 600.00 | 300.00 |
| Royalties | 2000.00 | 2212.05 | 212.05 |
| Donations | | 10.00 | 10.00 |
| Misc. Income | | 365.74 | 365.74 |
| *U.Ga. | 26000.00 | 26000.00 | 0.00 |
| *U.C. | 24500.00 | 24500.00 | 0.00 |
| TOTAL | 52800.00 | 53687.79 | 887.79 |

*Contributions To Support JRST Editor and Executive Secretary

NARST GENERAL FUNDS
EXPENDITURES

| ITEM | DATE | BUDGET | EXPENDED | ENCUMB. | BUDGET BALANCE |
|---------------------------------------|--------|----------|----------|---------|-------------------|
| <u>MEMBERSHIP</u> | | | | | |
| Type set ballots | Jan 7 | | 30.00 | | |
| Printing ballots and descriptions | Jan 22 | | 170.53 | | |
| Candian check charge; Yore | Jan 31 | | 19.97 | | |
| Foreign check charge | Mar 23 | | 54.00 | | |
| Bad check: Gremlt | Mar 24 | | 50.00 | | |
| Candian check charge: Yore | Mar 30 | | 22.19 | | |
| Can. check chrg Farragher | Apr 27 | | 25.86 | | |
| Foreign check, Adey (England) | May 13 | | 15.00 | | |
| Foreign check, Adey, England | May 31 | | 44.00 | | |
| Foreign chk | Aug 18 | | 10.00 | | |
| Bad chk:Rodriquez | Jun 15 | | 30.00 | | |
| Bad chk: Novak | Apr 29 | | 70.00 | | |
| Conf. Reg. Refund: Shaw | May 1 | | 70.00 | | |
| Conf. Reg. Refund: Laugen | Jul 15 | | 80.00 | | |
| Wiley: final pmt for '87 subscrips | May 9 | | 192.00 | | |
| Wiley, '88 member subscriptions | Aug 25 | | 17040.00 | | |
| MEMBER TOTAL | | 16152.00 | 17923.55 | | |
| ***** | | | | | |
| <u>JOURNAL EXPENSES</u> | | | | | |
| Yeany, Jnrl Edit | Apr 12 | | 1000.00 | | |
| Legal fees (nego- tiate contract) | Jan 7 | | 564.81 | | |
| JOURNAL TOTAL | | 1000.00 | 1564.81 | | |
| ***** | | | | | |

| ITEM | DATE | BUDGET | EXPENDED | ENCUMB. | BUDGET BALANCE |
|--|--------|----------------|----------------|---------|----------------|
| <u>OFFICERS/EXECUTIVE BOARD</u> | | | | | |
| General Expenses | | | | | |
| Typeset business cards | Apr 12 | | 10.00 | | |
| Fall Board Meeting 1987 | | | | | |
| Travel: Anderson | Jan 14 | | 496.97 | | |
| Travel: DeTure | Feb 9 | | 356.95 | | |
| Weston Hotel | Feb 18 | | 23.54 | | |
| Officer Expenses | | | | | |
| Blosser, Pres. | Apr 12 | | 1000.00 | | |
| DeTure, Past Pres | Apr 12 | | 700.00 | | |
| Holliday, Pres El | Apr 12 | | 700.00 | | |
| Fall Board Meeting 1988 | | | | | |
| TOTAL OFFICER/BOARD | | 8100.00 | 3287.46 | | |

ANNUAL MEETINGS

1988 Annual Meeting

| | | |
|---|--------|---------|
| Type set program (Bill from 1987) | Jan 7 | 977.00 |
| Type set program 1988 | Apr 18 | 957.00 |
| Print '88 prog | Apr 18 | 1100.00 |
| Print abstracts | Jun 9 | 1000.00 |
| Travel: Barrow Local Committee | Feb 26 | 114.97 |
| Bitner, local com meal exp. | May 13 | 17.36 |
| NSTA Booth United Expo | Mar 31 | 75.00 |
| NSTA Booth Supplies | Apr 25 | 99.84 |
| Plaques, awards | Apr 4 | 132.75 |
| Plaques, awards | Jun 3 | 134.75 |
| Plaques, awards (error, refund coming) | Jun 7 | 134.75 |
| Plaques, awards | Apr 24 | 111.80 |
| Print badge cards | Apr 7 | 126.60 |
| Badge holders | Apr 7 | 12.18 |
| More badg hlders | Apr 7 | 29.76 |
| Travel, Markle | Apr 27 | 761.47 |
| Travel, Yeany | Jul 14 | 287.40 |
| Joslin: UPS chrgs | May 12 | 33.28 |
| Tinker, travel. Speaker | Jun 8 | 251.85 |
| Lodge 4 Seasons | Jun 3 | 7859.32 |
| Lodge 4 Seasons | Jun 21 | 285.28 |

Workshop Expenses

| | | |
|------------------|--------|--------|
| Lawrence honor. | Apr 12 | 200.00 |
| Lawrence, travel | May 13 | 345.14 |
| Gallagher honor. | Apr 12 | 200.00 |
| Gallagher travel | May 12 | 172.37 |
| Tobin, honor. | Apr 12 | 200.00 |

1989 Annual Meeting

| | | |
|---------------------------------|--------|--------|
| Markle, travel Preplanning | Jun 29 | 866.75 |
| Holliday, travel Preplanning | Jun 30 | 468.66 |

| ITEM | DATE | BUDGET | EXPENDED | ENCUMB. | BUDGET BALANCE |
|--|--------|-----------------|-----------------|---------|----------------|
| 1989 Annual Meeting (Continued) | | | | | |
| Local committe lunch | Jul 14 | | 124.68 | | |
| Holiday Inn Room chrges Will be reimb. | Jul 27 | | 376.00 | | |
| 1990 Annual Meeting | | | | | |
| Travel, Markle Site inspection | Aug 30 | | 616.01 | | |
| 1991 Annual Meeting | | | | | |
| TOTAL ANNUAL MEETINGS | | 18000.00 | 18071.97 | | |
| ***** | | | | | |

EXECUTIVE SECRETARY OFFICE

| | | | | | |
|----------------------------------|--------|----------------|----------------|--|--|
| Supplies | Jan 22 | | 4.32 | | |
| Labels, 6 bxs | Jan 27 | | 181.54 | | |
| Supplies | Feb 8 | | 90.78 | | |
| Type set | Apr 14 | | 192.00 | | |
| NARST stationary | Jun 29 | | 98.30 | | |
| Correct stat. | Jul 26 | | 12.85 | | |
| Stationary | Aug 5 | | 61.00 | | |
| Phone, Jan | Jan 31 | | 14.51 | | |
| Phone, Feb | Feb 29 | | 39.59 | | |
| Phone, Mar | Mar 31 | | 34.83 | | |
| Phone, Apr | Apr 30 | | 14.12 | | |
| Phone, May | May 31 | | 15.43 | | |
| Phone, Jun | Jun 30 | | 12.90 | | |
| Phone, Jul | Jul 30 | | 28.84 | | |
| Phone, Aug | Aug 31 | | 2.01 | | |
| Phone, Sep | | | | | |
| Phone, Oct | | | | | |
| Phone, Nov | | | | | |
| Phone, Dec | | | | | |
| Postage, Feb | Feb 29 | | 97.60 | | |
| Postage, Mar | | | | | |
| Postage, Apr | | | | | |
| Postage, May | | | | | |
| Postage, Jun | Jun 30 | | 65.10 | | |
| Postage, Jul | | | | | |
| Postage, Aug | Aug 31 | | 2.22 | | |
| Postage, Sep | | | | | |
| Postage, Oct | | | | | |
| Postage, Nov | | | | | |
| Postage, Dec | | | | | |
| Copy chrgs, UC | Mar 31 | | 3.56 | | |
| Copy chrgs, UC | Apr 30 | | 21.38 | | |
| Copy chrgs, UC | May 31 | | 4.20 | | |
| Copy chrgs, UC | Jun 30 | | 1.66 | | |
| Copy chrgs, UC | Jul 31 | | 9.76 | | |
| Copy chrgs, UC | Aug 31 | | 0.93 | | |
| Pre-print env. | Feb 18 | | 241.52 | | |
| Print Stationary | Mar 4 | | 33.00 | | |
| TOTAL EXECUTIVE SECRETARY | | 3700.00 | 1283.95 | | |

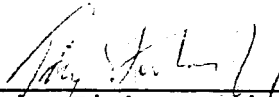
| ITEM | DATE | BUDGET | EXPENDED | ENCUMB. | BUDGET BALANCE |
|-------------------------|--------|---------|----------|---------|-------------------|
| <u>RESEARCH MATTERS</u> | | | | | |
| Printing R.H. | Apr 7 | | 120.00 | | |
| Type set | Apr 14 | | 78.00 | | |
| TOTAL RESEARCH MATTERS | | 250.00 | 198.00 | | |
| ***** | | | | | |
| <u>NARST NEWS</u> | | | | | |
| Print Dec '87 | Jan 6 | | 418.70 | | |
| Type set | Jan 20 | | 98.00 | | |
| Type set Mar '88 | Mar 4 | | 118.00 | | |
| Print Mar '88 | Apr 21 | | 589.35 | | |
| Type set Jun '88 | Jun 17 | | 414.00 | | |
| Print June '88 | Jun 20 | | 729.00 | | |
| Type set Sept '88 | | | | | |
| Print Sept '88 | | | | | |
| Type set Dec '88 | | | | | |
| Print Dec '88 | | | | | |
| TOTAL NARST NEWS | | 4000.00 | 2367.05 | | |
| ***** | | | | | |
| <u>OTHER ITEMS</u> | | | | | |
| ICASE dues | Jun 17 | | 100.00 | | |
| Pd to NSTA | | | | | |
| TOTAL OTHER EXPENSES | | 160.00 | 100.00 | | |
| ***** | | | | | |

**STATEMENT OF TRUSTEE EXPENDITURES
FOR THE YEAR ENDING DECEMBER 31, 1987
WITH COMPARISONS MADE FROM STATEMENT OF 1986 AND 1985**

Sources of Funds: National Association for Research in
Science Teaching
Trustee: Markle, Glenn C.
Purpose of Fund: Accounting Service
University Account: 0-81290-0000-006-60

| | <u>1987</u> | <u>1986</u> | <u>1985</u> |
|-----------------------------------|------------------|------------------|------------------|
| Funds Available for Expenditures: | | | |
| Balance Forward | \$ 5,084.62 | \$11,930.00 | \$ 4,646.00 |
| Revenue | 57,925.93 | 43,352.54 | 43,121.00 |
| Local Donation | | | |
| | <u>63,010.55</u> | <u>55,282.54</u> | <u>47,767.00</u> |
| Expenditures | | | |
| Clerical & Stenographic | \$ 0.00 | \$ 0.00 | \$ 211.00 |
| Materials | 0.00 | 298.90 | 470.00 |
| Courier Service | 0.00 | 0.00 | 154.00 |
| Office Supplies and Printing | 8,721.22 | 8,636.41 | 5,496.00 |
| Programs, Periodicals, & Awards | 33,840.35 | 27,851.01 | 12,156.00 |
| Postage | 841.47 | 989.71 | 2,661.00 |
| Telephone | 246.22 | 199.63 | 2,590.00 |
| Travel | 10,954.53 | 11,288.26 | 11,266.00 |
| Entertainment | 0.00 | 810.00 | 37.00 |
| Legal & Professional Fees | 55.00 | 0.00 | 783.00 |
| Bank Charges, Canadian Checks | 0.00 | 182.90 | |
| Refunds to Members | 171.00 | | |
| Total Expenditures | \$54,830.19 | \$50,196.82 | \$35,824.00 |
| Encumbrances | 2,245.00 | 525.00 | |
| Unspent balance | 5,935.36 | 4,560.72 | 11,943.00 |
| Revenue deferred | 0.00 | 0.00 | 62.00 |
| Unspent Balance | 5,935.36 | 4,560.72 | 11,881.00 |

I hereby certify that the expenditures summarized above were paid on behalf of the Trustee and that vouchers are available for audit purposes.


 Louis Fisher, Fiscal Officer
 College of Education

9/12/88

NAFST BUDGET SUMMARY - 1987
 JAN 1 - DEC 31, 1987

| | Initial Balance | Encumbered Funds | Budget Balance JANUARY 1, 1987 |
|---------------------|-----------------|------------------|--------------------------------|
| General NAFST Funds | 2212.00 | 525.00 | 1687.00 |
| Delta Project Funds | 2872.62 | 0.00 | 2872.62 |
| TOTAL FUNDS | 5084.62 | 525.00 | 4559.62 |

INCOME SUMMARY

| ITEM | BUDGET | RECEIPTS | BUDGET BALANCE FOR 1987 |
|----------------------------------|-----------------|------------------|-------------------------|
| Membership Dues | 26390.00 | 30521.00 | 4131.00 |
| Other Income | 52100.00 | 62050.93 | 9950.93 |
| Annual Meeting Income | 17600.00 | 15954.00 | -1746.00 |
| | | | 0.00 |
| BUDGET AND RECEIPTS TOTAL | 96090.00 | 108425.93 | 12335.93 |

EXPENDITURE SUMMARY

| | BUDGET | DISPERSEMENTS | ENCUMBERED | BUDGET BALANCE |
|-------------------------------------|------------------|------------------|----------------|-----------------|
| Member Expenses inc. Journal | 12500.00 | 16013.00 | 65.00 | -3578.00 |
| Journal Postage/Supplies | 1000.00 | 1000.00 | 0.00 | 0.00 |
| Annual Meeting | 16600.00 | 19352.14 | 1130.00 | -3879.14 |
| Officer/Board Expenses | 8550.00 | 9377.83 | 0.00 | -827.83 |
| Executive Sec. Expenses | 3800.00 | 3711.26 | 0.00 | 88.74 |
| Research Matters | 500.00 | 1237.90 | 0.00 | -737.90 |
| Newsletter | 4000.00 | 3889.06 | 950.00 | -839.06 |
| Delta Project | 2875.00 | 0.00 | 0.00 | 2875.00 |
| Other (Triangle cCol, ICASE, etc) | 310.00 | 249.00 | 100.00 | -39.00 |
| U.GA. & U.C. CONTRIBUTIONS* | 50500.00 | 50500.00 | 0.00 | 0.00 |
| BUDGET & DISPERSE. TOTAL | 106639.00 | 105330.19 | 2245.00 | -6937.19 |
| CASH DISPERSE. TOTAL | 50135.00 | 54630.19 | 2245.00 | -6937.19 |

* NON-CASH CONTRIBUTIONS. JOURNAL EDITOR AND EXECUTIVE SECRETARY SUPPORT

NARST BUDGET, RECEIPTS AND EXPENDITURES
Jan 1 - Dec 31, 1987

| | | NARST GENERAL FUNDS RECEIPTS | | |
|-----------------|------------------------|---------------------------------|----------|----------------------------|
| Membership Dues | | BUDGET | RECEIPTS | CATEGORY BUDGET BALANCE |
| | 1987 Dues | 26390.00 | 29823.00 | |
| | 1988 Dues | | 668.00 | |
| | 1989 Dues | | 30.00 | |
| | Dues Summary | 26390.00 | 30521.00 | 4131.00 |
| Annual Meeting | | BUDGET | RECEIPTS | |
| | Registrations 294 | 17000.00 | 15169.00 | |
| | Training Sessions 70 | 600.00 | 665.00 | |
| | Meeting Summary | 17600.00 | 15854.00 | -1746.00 |
| Other Income | | BUDGET | RECEIPTS | |
| Mailing Lists | Renting Labels | | 600.00 | |
| Journals | Wiley Royalties | 1600.00 | 2171.70 | |
| Donations | 11 Donations | | 308.00 | |
| Misc. | Misc. Income | | 471.23 | |
| | Univ. of Calgary | | 8000.00 | |
| | *U. Ga., Editor, Sup. | 26000.00 | 26000.00 | |
| | *U.C., Exec. Sec. Sup. | 24500.00 | 24500.00 | |
| | Other Income Summary | 52100.00 | 62050.93 | 9950.93 |

* NON-CASH CONTRIBUTIONS. JOURNAL EDITOR AND EXECUTIVE SECRETARY SUPPORT

| RECEIPT SUMMARY | BUDGET | RECEIPTS | BUDGET BALANCE |
|---------------------|----------|-----------|----------------|
| Membership | 26390.00 | 30521.00 | 4131.00 |
| Annual Meeting | 17600.00 | 15854.00 | -1746.00 |
| Other Income | 52100.00 | 62050.93 | 9950.93 |
| TOTAL | 96090.00 | 108425.93 | 12335.93 |
| TOTAL CASH RECEIPTS | 45590.00 | 57925.93 | 12335.93 |

EXPENDITURES BY BUDGET
CATEGORIES

| MEMBERSHIP | BUDGET | EXPENDITURE | ENCUMBERED | CATEGORY BUDGET BALANCE |
|---------------------------------|----------|-------------|------------|----------------------------|
| 9/1/87 Joslin, Archivist | | 200.00 | | |
| 9/16/87 JRST Volume 24 | 12500.00 | 15642.00 | | |
| 9/16/87 Refund Journet | | 50.00 | | |
| 5/1/87 Refund Gann | | 55.00 | | |
| 5/1/87 Refund Conwell | | 11.00 | | |
| 5/13/87 Refund Ayers | | 55.00 | | |
| 4/6/87 Refund Tephly | | | 65.00 | |
| Membership Summary | 12500.00 | 16013.00 | 65.00 | -3578.00 |
| JOURNAL EXPENSES | | | | |
| Postage/Supplies | | | | |
| 4/17/87 Yeany, JRST Editor | 1000.00 | 1000.00 | | 1000.00 |
| Journal Expense Summary | 1000.00 | 1000.00 | | 0.00 |
| OFFICERS/EXECUTIVE BOARD | | | | |
| Officers | 2400.00 | | | |
| 4/17/87 DeTure President | 1000.00 | 1000.00 | | |
| 4/17/87 Barufaldi Past Pres. | 700.00 | 700.00 | | |
| 4/17/87 Blosser Pres. Elect | 700.00 | 700.00 | | |
| Officer Summary | 2400.00 | 2400.00 | | 0.00 |
| Spring Executive Board Meeting | 950.00 | | | |
| 4/23/87 Breakfast | | 130.20 | | |
| 4/23/87 Lunch | | 367.04 | | |
| 4/25/87 Dinner | | 386.88 | | |
| 4/23/87 Soft Drinks, etc. | | 33.48 | | |
| Spring Board Meeting Summary | 950.00 | 917.60 | | 32.40 |
| Fall Executive Board Meeting | 5200.00 | | | |
| 11/5/87 Breakfast | | 150.21 | | |
| 11/5/87 Lunch | | 241.50 | | |
| 11/6/87 Breakfast | | 58.34 | | |
| 12/2/87 Staver, Travel | | 557.72 | | |
| 12/2/87 Barufaldi, Travel | | 478.22 | | |
| 12/2/87 Finley, Travel | | 709.47 | | |
| 12/2/87 Wright, Travel | | 544.68 | | |
| 12/4/87 Markle, Travel | | 421.74 | | |
| 12/11/87 Yeany, Travel | | 607.63 | | |
| 11/23/87 Bowyer, Travel | | 623.98 | | |
| 11/23/87 Good, Travel | | 531.64 | | |
| 11/23/87 Bybee, Travel | | 782.82 | | |
| 11/23/87 Blosser, Travel | | 349.18 | | |
| Fall, 1987 Board Summary | 5200.00 | 6060.23 | | -860.23 |
| OFFICER/EXECUTIVE BOARD SUMMARY | 6550.00 | 9377.83 | 0.00 | -827.83 |

| | BUDGET | EXPENDITURE | ENCUMB. | CATEGORY BUDGET BALANCE |
|--------------------------------|------------------------------------|-------------|---------|----------------------------|
| Convention supplies continued: | | | | |
| 4/15/87 | Type setting reg forms & bus. card | 115.00 | | |
| 4/15/87 | Renting printer | 89.25 | | |
| 4/20/87 | Print reception invitations | 196.15 | | |
| 4/27/87 | General supplies | 16.94 | | |
| 5/1/87 | U-Haul Rental to Transport Mater. | 103.39 | | |
| 5/1/87 | Transporting meeting material | 99.50 | | |
| 5/7/87 | NSTA registration to cover booth | 65.00 | | |
| 5/15/87 | Mileage expenses collecting mater | 32.34 | | |
| 5/18/87 | NSTA Booth furniture | 88.80 | | |
| 6/2/87 | NSTA Booth furniture | 82.07 | | |
| 6/15/87 | Nametags, printing | 206.98 | | |
| 6/14/87 | Renting microphones | 152.50 | | |
| Supply Summary | 503.00 | 2425.78 | 0.00 | -1922.78 |
| 1987 Convention | | | | |
| Travel, 87 Meeting | | | | |
| 5/4/87 | Markle, Planning travel | 278.00 | | |
| 5/1/87 | Markle travel expenses | 634.33 | | |
| 6/23/87 | Yeany travel expenses | 221.60 | | |
| 6/20/87 | Butts hotel expenses | 505.15 | | |
| Travel, '87 Summary | 1000.00 | 1639.08 | 0.00 | -639.08 |
| 1988 Convention | | | | |
| Travel, 88 Meeting | | | | |
| 7/14/87 | Biosser, travel | 464.81 | | |
| 8/31/87 | Markle, travel | 462.75 | | |
| Travel '88 Summary | 1000.00 | 947.56 | | 52.44 |
| Supplies, 88 Meeting | | | | |
| 12/15/87 | Typeset registration form | 45.00 | | |
| 12/15/87 | Print registration forms | 18.17 | | |
| 12/22/87 | Print flyers | 35.00 | | |
| Supplies '88 Summary | | 98.17 | | |
| 1989 Convention | | | | |
| Travel, 89 Meeting | | | | |
| 9/18/87 | Markle, travel | 882.50 | | |
| Travel '89 Summary | 0.00 | 882.50 | 0.00 | -882.50 |
| Annual Meetings Summary | 16602.00 | 19352.14 | 1130.00 | -3879.14 |

| EXECUTIVE SECRETARY OFFICE EXPENSES | BUDGET | EXPENDITURES | BALANCE | |
|-------------------------------------|-----------------------------------|--------------|---------|----------|
| Postage | | | | |
| 1/30/87 | January | 5.50 | | |
| 2/10/87 | Bulk mailing | 100.00 | | |
| 3/31/87 | March | 61.20 | | |
| 3/31/87 | Bulk mailing | 33.00 | | |
| 6/30/87 | June | 53.63 | | |
| 6/30/87 | Bulk mailing | 32.00 | | |
| 8/28/87 | Bulk mailing budget at Postoffice | 200.00 | | |
| 9/30/87 | Sept. Postage | 28.79 | | |
| 12/21/87 | Bulk mailing budget at Postoffice | 200.00 | | |
| 12/31/87 | Bulk mail, dues | 33.00 | | |
| 12/07/87 | Annual fee for bulk mail permit | 50.00 | | |
| 11/3/87 | Express mail, JRST labels | 10.75 | | |
| 12/31/87 | Bulk mail, newsletter | 33.00 | | |
| Postage Summary | 1500.00 | 841.87 | 0.00 | 658.13 |
| Telephone | | | | |
| 1/31/87 | January | 13.74 | | |
| 2/28/87 | February | 4.42 | | |
| 3/31/87 | March | 53.33 | | |
| 4/30/87 | April | 46.77 | | |
| 5/31/87 | May | 18.23 | | |
| 6/30/87 | June | 32.85 | | |
| 8/31/87 | August | 22.16 | | |
| 9/30/87 | September | 23.60 | | |
| 10/31/87 | October | 3.37 | | |
| 11/30/87 | November | 25.15 | | |
| 12/31/87 | December | .58 | | |
| Telephone Summary | 1800.00 | 246.22 | 0.00 | 1553.78 |
| Supplies/Printing | | | | |
| 1/22/87 | Printing Stationary | 86.20 | | |
| 1/28/87 | Maxi-print software | 34.75 | | |
| 12/05/86 | Printing envelopes | 93.55 | | |
| 1/21/87 | Printing ballots | 43.43 | | |
| 2/23/87 | Printing dues notices | 391.35 | | |
| 2/23/87 | Printing dues envelopes | 195.63 | | |
| 4/15/87 | Printing business cards, Board | 190.40 | | |
| 4/20/87 | File folders for Board | 91.00 | | |
| 4/21/87 | Printing stationary | 113.24 | | |
| 4/21/87 | Print member directories, 50 | 194.00 | | |
| 5/13/87 | Business cards, two board members | 64.00 | | |
| 5/16/87 | Letterhead changes, typesetting | 14.00 | | |
| 7/29/87 | Typeset envelopes, plain & bulk | 9.70 | | |
| 8/12/87 | Print envelopes, plain and bulk | 212.30 | | |
| 5/13/87 | Business cards, correct typeset | 13.00 | | |
| 10/6/87 | Printing stationary | 51.67 | | |
| 11/2/87 | Printing envelopes | 158.65 | | |
| 11/27/87 | Printing dues forms, etc. | 542.05 | | |
| 12/15/87 | Typesetting ballots | 45.00 | | |
| 12/18/87 | Printing return envelopes | 73.05 | | |
| 12/31/87 | Misc. copying charges | 3.98 | | |
| Supplies Summary | 1000.00 | 2623.17 | 0.00 | -1623.17 |
| Miscellaneous | 500.00 | | | |
| Executive Secretary Summary | 4800.00 | 3711.26 | 0.00 | 1088.74 |

| RESEARCH MATTERS | BUDGET | EXPENDITURES | ENCUMB. | BALANCE |
|------------------------|----------------------------------|--------------|---------|---------|
| 3/18/87 | Printing Research Matters | 360.64 | | |
| 12/10/87 | Typeset new Research Matters '87 | 208.00 | | |
| 4/15/87 | Printing Research Matters | 235.63 | | |
| 6/3/87 | Printing Research Matters | 235.63 | | |
| 9/15/87 | Printing Research Matters | 198.00 | | |
| Research Matters Summ. | 275.00 | 1237.90 | 0.00 | -962.90 |

| NEWSLETTER | BUDGET | EXPENDENTURE | ENCUM. | BALANCE |
|---|-------------------------|--------------|--------|---------|
| Printing and Postage for four issues | | | | |
| 4/7/87 | Type setting, Dec '86 | 470.00 | | |
| 1/27/87 | Printing, Dec '86 Issue | 525.00 | | |
| 4/03/87 | Type setting, March '87 | 240.00 | | |
| 4/14/87 | Printing, March '87 | 710.00 | | |
| 7/6/87 | Type setting, June '87 | 425.00 | | |
| 6/26/87 | Printing, June '87 | 525.50 | | |
| 9/8/87 | Type setting, Sept. '87 | 177.38 | 450.00 | |
| 10/13/87 | Printing, Sept., '87 | 625.00 | 500.00 | |
| 12/11/87 | Type setting, Dec., '87 | 187.18 | | |
| 12/11/87 | Printing, Dec., '87 | | | |
| Newsletter Summary | 4000.00 | 3887.06 | 950.00 | -839.06 |

| OTHER ITEMS | BUDGET | EXPENDENTURE | ENCUM. | BALANCE |
|---------------|-----------------------|--------------|--------|---------|
| 5/27/87 | Triangle Collation | 500.00 | 100.00 | 400.00 |
| 4/9/87 | ICASE | 60.00 | | 5.00 |
| 6/18/87 | UC Correct (Printing) | 194.00 | | -194.00 |
| Other Summary | 560.00 | 249.00 | 100.00 | 211.00 |

| DELTA MONOGRAPH PROJECT | BUDGET | EXPENDITURES | ENCUM. | CATEGORY BUDGET BALANCE |
|-------------------------|---------|--------------|--------|----------------------------|
| DELTA Project | | | | |
| Delta Project Summary | 2872.62 | | | 2872.62 |

BOTTOM LINE SUMMARY
December 31, 1987

| | INITIAL BALANCE | BUDGETTED INCOME | BUDGETTED EXPENSES | RECEIPTS | EXPENSES ENCUMBERED | BALANCE |
|-------|--------------------|---------------------|-----------------------|-----------|---------------------|---------|
| NARST | 2212.00 | 96090.00 | 100638.00 | 108425.93 | 105330.19 | 3062.74 |
| DELTA | 2872.62 | 0.00 | 0.00 | 0.00 | 0.00 | 2872.62 |
| TOTAL | 5084.62 | 96090.00 | 100638.00 | 108425.93 | 105330.19 | 5935.36 |

EXECUTIVE SECRETARY

Dr. Glenn Markle
NARST
University of Cincinnati
Cincinnati, OH 45221-0002
(513) 475-2335

Organized to improve science teaching—through research

NARST

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

PRESIDENT

Dr. Patricia E. Blosser
Science Education
The Ohio State University
Columbus, OH 43210-1172

October 15, 1988

To: NARST Board of Directors

PRESIDENT-ELECT

Dr. William G. Holliday
Science Teaching Center
The University of Maryland
College Park, MD 20742

From: Patricia E. Blosser
Editor, Investigations in Science Education

Re: Status Report on ISE

IMMEDIATE PAST PRESIDENT

Dr. Linda DeTure
Education and Human Development
Rollins College
Winter Park, FL 32789

We are in the process of working on the completion of the four issues for Volume 13. Work on ISE has been delayed by several factors: my health problems, the uncertainty (last year) as to whether or not we would be continued as an ERIC Clearinghouse (we received the bid for another five years), and budgetary constraints within the College of Education. We are still in a "cost containment" situation at OSU, imposed by the University president. Our department has a budget deficit, inherited from the previous reorganization, and the dean is uncertain what degree of financial support from the College can be committed to ventures such as ISE. NARST has no financial involvement in ISE so the support comes wholly from OSU monies.

BOARD MEMBERS-AT-LARGE

Dr. Charles Anderson (1990)
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College Box 45, Peabody
Nashville, TN 37203

Dr. Emmett Wright (1989)
Dept. of Curriculum and Instruction
Kansas State University
Manhattan, KS 66506

We have sent out articles for review, with a due date of early October for these reviews. To date we have received 0 reviews from the individuals to whom the materials were sent.

JOURNAL EDITOR

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

RESEARCH COORDINATOR

Dr. Rodger Bybee (1989)
B.S.C.S.
Colorado College
Colorado Springs, CO 80903

NARST-NEWS EDITOR

Dr. Thaddeus W. Fowler (1989)
University of Cincinnati
Cincinnati, OH 45221-0002

THE UNIVERSITY OF THE WEST INDIES

DEPARTMENT OF EDUCATIONAL RESEARCH AND DEVELOPMENT
FACULTY OF EDUCATION

CABLES: "STOMATA" PORT OF SPAIN



ST. AUGUSTINE,
REPUBLIC OF TRINIDAD & TOBAGO.
TEL: 663-1364/662-4279
EXT: 3346.

Our Reference

26th September, 1988

Dr Patricia Blosser
Science & Maths Education
The Ohio State University
Columbus, OH 43210-1172
UNITED STATES OF AMERICA.

Dear Pat,

Since the ad hoc International Issues Committee meets only at the NARST Annual Meeting we tend mainly to report to the spring board meeting. I therefore do not have a Committee report to submit for the fall board book, however I do have a personal concern, which I think is shared by other international members. It concerns the submission of proposals for the Annual Meeting and the request that we send self-addressed stamped envelopes. One does not buy US stamps in foreign countries hence some internationals do not submit proposals due to the inability to fulfil this request. I would suggest that either NARST meets the cost of mailing responses to those who submit proposals or the cost of mailing be added to internationals' registration fee. In either case the cost is negligible but the facility will make it easier for internationals to participate in the meeting.

Plans for the Third Consultation to be held in Venezuela continue, we will keep you informed.

With best regards

Pamela Fraser-Abder
Pamela Fraser-Abder

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

REPORT

of

AD HOC TEACHER LIAISON COMMITTEE

The Committee met during the 1988 Annual Meeting to consider ways to increase our opportunities for interaction with classroom teachers on research-related issues. The discussion focused on Research Matters (RM) since that is, at present, our principal means of communicating with teachers. As a result of the discussion the Committee made several recommendations which were submitted to the President for presentation to the Board.

Recommendations

1. That RM be made an official NARST publication and identified as such by use of the NARST logo.
2. That a minimum of four RM's be produced each year for distribution at NSTA meetings elsewhere as appropriate. Each RM should be dated.
3. That each set of RM's be distributed for 2 years and then 'retired'. Each year there would be four new ones and four from the previous year. The old ones should be bound.
4. That a Teacher Liaison Committee become part of the NARST Committee structure with responsibilities to:
 - a. Invite four or more members per year to write research summaries to be printed as 'Research Matters --'.
 - b. Plan and manage a booth at the Annual Convention of NSTA.
 - c. Explore other means of dissemination of RM.
 - d. Make recommendations to the Board in regard to other means of influencing teachers to use research as a basis for improving practice.

Ann C. Howe, Chair

October 5, 1988



THE UNIVERSITY OF GEORGIA
Department of Science Education
212 Aderhold Hall
Athens, Georgia 30602

College of Education

(404) 542-1763

September 19, 1988

Dr. Patricia E. Blosser
President, NARST
Department of Educational Studies
Science Education
249 Arps Hall
1945 North High Street
Columbus Ohio 43210

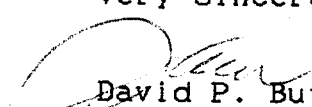
Dear Pat:

Thankyou for your recent letter of September 1 and your inquiry concerning NARST related activities with ICASE. We have been in regular communication with the ICASE Executive Secretary. We cooperated with them in completing a survey form on the role of Science/Technology in US science education courses.

At this time, our interaction has been positive and there are no other activities to report.

If I can be of further assistance, please do not hesitate to let me know.

Very sincerely,


David P. Butts
Aderhold Distinguished
Professor



20th September, 1988

Dr Patricia Blosser
Science & Mathematics Education
The Ohio State University
Columbus OH 43210-1172

GPO Box U 1987
Perth 6001
Western Australia
Fax (09) 458 4661
Telex AA92993

Telephone
(09) 350 7896

Dear Pat,

As Archivist I have nothing significant to report to the Board for its Fall meeting. Karen's work on the history project is a slow, somewhat painful job. There are so many crucial pieces in the puzzle that are missing.

We are trying to photocopy early records especially the minutes printed in early issues of Science Education. Ran into a problem and had to get permission from Wiley to copy what in effect is our (NARST) property. No problem. It just takes so much time to do these things.

We are beginning to see, now, in a couple of filing case drawers the possibility of a useful, fascinating set of records, that we can hold as the NARST records. This will contain references to crucial records stored elsewhere.

Your support is sincerely appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Paul H. Joslin".

Paul H. Joslin
Visiting Fellow

EXECUTIVE SECRETARY

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IMMEDIATE PAST PRESIDENT

Dr. Linda DeTure
Education and Human Development
Rollins College
Winter Park, FL 32789

Report of the Immediate Past President

Linda R. DeTure

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Dr. Emmett Wright (1989)
Dept. of Curriculum and Instruction
Kansas State University
Manhattan, KS 66506

This year has been quite a change from the last two years. As past president I completed, or turned over to Pat, several tasks that were begun during my term as president. The Policies and Procedures Handbook has been put in the computer on Word Perfect. It is still both rough and a draft, but should be easier to revise now. Copies will be available for the Board Meeting and the Issues Day.

The past president also serves as chair of the Elections committee and the Policy Committee. The Policy committee reviewed the Handbook and made suggestions for changes. The election committee is currently finalizing the slate of officers for 1989.

Other than that I have been resting on my laurels or some such place. Once again thanks for your support.

JOURNAL EDITOR

Dr. Russell H. Yeany
Science Education Research
And Evaluation Lab
Science Education Department
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NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

PRESIDENT

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Science Education
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Columbus, OH 43210-1172

October 15, 1988

To: NARST Board of Directors

PRESIDENT-ELECT

Dr. William G. Holliday
Science Teaching Center
The University of Maryland
College Park, MD 20742

From: Patricia E. Blosser *peb*
President 1988-89

Re: Report of Activities

IMMEDIATE PAST PRESIDENT

Dr. Linda DeTure
Education and Human Development
Rollins College
Winter Park, FL 32789

This spring I identified persons to present papers at each of the area NSTA regional meetings, as representatives of NARST: Willard Jacobson at Portland, Maine; John Staver at Columbus, Ohio; Ron Good at Little Rock, Arkansas; and Ann Howe at Charleston, South Carolina. Because NARST has two hours of program time at each regional, I asked Rodger Bybee as NARST Research Coordinator to work with Bill Kyle as NSTA Research Director to set up the second hour presentation at each regional so the focus would be on research relevant to classroom teachers. I followed the same plan for the NSTA national meeting to be held in Seattle, Washington, this coming spring. I invited NARST members, primarily those individuals who had written one of the NARST Research Matters to present an hour session at the Seattle meeting, and I asked Fred Finley as chair of the NARST Awards Committee to invite winners of the Practical Applications award and suitable runners-up to present at the Seattle meeting. I filled five hours of the 10 allotted to NARST and asked Fred to invite people to fill the remaining five hours.

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Nashville, TN 37203

Dr. Emmett Wright (1989)
Dept. of Curriculum and Instruction
Kansas State University
Manhattan, KS 66506

I attended the NSTA board meeting in Reno, Nevada in July and represented NARST on the NSTA board.

I served, with Stan Helgeson, as a program cochair for the Columbus NSTA regional meeting, October 20-22. I plan to attend the Charleston regional, representing NARST, as well as the coming regional at Little Rock. I also attended the AAAS Forum in Washington, D.C., earlier in October.

JOURNAL EDITOR

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

I have corresponded with various individuals concerning NARST but have taken no actions that would need Board approval in terms of NARST endorsement on any person or activity. Should situations such as that arise, I will call NARST board members before taking action.

RESEARCH COORDINATOR

Dr. Rodger Bybee (1989)
B.S.C.S.
Colorado College
Colorado Springs, CO 80903

NARST-NEWS EDITOR

Dr. Thaddeus W. Fowler (1989)
University of Cincinnati
Cincinnati, OH 45221-0002



ERIC® Clearinghouse for Science,
Mathematics and Environmental
Education

Room 310
1200 Chambers Road
Columbus, OH 43212-1792
Phone 614-292-6717

DATE: October 13, 1988

TO: Dr. Patricia Blosser, President
NARST
1200 Chambers Road, Room 310
Columbus, OH 43212

FROM: Dr. Robert W. Howe, Director
ERIC Clearinghouse for Science, Mathematics and
Environmental Education
1200 Chambers Road, Room 310
Columbus, OH 43212

RE: ERIC Partner Program

The ERIC system is in the process of establishing an ERIC Partner Program. Each clearinghouse has been asked to establish a group of ERIC Partners.

One of the purposes of the ERIC Partner Program is to help the ERIC system acquire documents, provide more effective materials and services, increase awareness of ERIC materials and services, provide training for users in the use of ERIC, and obtain feedback on materials and services from specific groups. A second purpose of the ERIC Partner Program is to help users related to ERIC Partners through better awareness of materials, production of materials targeted to Partner needs, training for users, and involving more users in the development of materials.

The ERIC/SMEAC Partner Program will be established over a five-year period of time. Each year a group of associations, organizations, centers, states, colleges, schools, and other organizations will be invited to join the program.

ERIC/SMEAC will provide a number of services and materials to each partner:

- 1) Copies of all 12 digests being produced in 1988.
- 2) Copies of ERIC system products such as the Pocket Guide and the directory of microfiche locations when they are produced or updated.

- 3) Two free searches of the ERIC database per Partner per year.
- 4) A free copy of ERIC/SMEAC publications in the scope area of the Partner (1988 and forward as long as the program supports this work).
- 5) Discount of 20% on additional copies of ERIC/SMEAC publications.
- 6) Slide/Tape training kit on the use of ERIC and ERIC/SMEAC (this is being developed).
- 7) Electronic network and bulletin board (this is being developed).
- 8) Partner Newsletter with information on Partners, ERIC and other clients (to be issued later this year).
- 9) Priority assistance as available.
- 10) Annual recognition of cooperation.
- 11) Other services for partners and materials as approved by ERIC.

Partners will be asked to cooperate in one or more ways:

- 1) Provide publications to place in the ERIC system and encourage others to submit materials.
- 2) Produce joint publications (Partners will be invited to cooperate in joint publications).
- 3) Assist with publicity efforts related to ERIC and ERIC/SMEAC products and services.
- 4) Write articles or columns for newsletters and journals related to materials in ERIC and ERIC services.
- 5) Provide information on user needs (once a year on a formal basis, other times when Partners desire).
- 6) Provide evaluation information on ERIC products and services (some Partners will be requested to assist with evaluation of specific materials or services).
- 7) Assist in conference presentations regarding ERIC and/or publications and practices.
- 8) Identify potential publications useful to people represented by the Partner.
- 9) Identify potential authors for ERIC/SMEAC publications.
- 10) Identify potential reviewers for ERIC/SMEAC products.

This letter is an invitation for your organization to become an ERIC/SMEAC Partner. A form to return to us is attached. There is no monetary charge for cooperation. If you have any questions, contact Stan Helgeson or Patricia Blosser at (614) 292-6717. You may call collect; indicate ERIC/SMEAC Partner Program when you call.

We hope you are able to join with us and others in helping to improve educational research and practice.

RWH:as
Enclosure

ERIC/SMEAC PARTNER FORM

Organization/Agency/Institution NARST

Street Address 1200 Chambers Road, Room 310

City, State, Zip Columbus, OH 43212

I. Our organization is willing to become an ERIC/SMEAC Partner for the 1988-1989 school year. Our liaison will be the person identified below. We agree to cooperate on two or more of the activities listed below. We are interested in cooperating on the items checked; please contact us to develop ideas in more detail.

A. Liaison Person

Name _____

Position _____

Street Address _____

City, State, Zip _____

Telephone _____

B. Person Authorizing Partnership

Name _____

Position _____

Telephone _____

II. Suggested Partner Activities

Check activities that are of most interest to your group. If you want to suggest others, add below.

- A. Provide publications to place in the ERIC system and encourage others to submit materials.
- B. Produce joint publications (Partners will be invited to cooperate in joint publications).
- C. Assist with publicity related efforts to ERIC and ERIC/SMEAC products and services.
- D. Write articles or columns for newsletters and journals related to materials in ERIC and ERIC services.
- E. Provide information on user needs (once a year on a formal basis, other times when Partners desire).
- F. Provide evaluation information on ERIC products and services (some Partners will be requested to assist with evaluation of specific materials or services).
- G. Assist in conference presentations regarding ERIC and/or publications and practices.
- H. Identify potential publications useful to people represented by the Partner.
- I. Identify potential authors for ERIC/SMEAC publications.
- J. Identify potential reviewers for ERIC/SMEAC products.
- K. _____

- L. _____

- M. _____

Return the form to:
Dr. Robert Howe, Director
ERIC/SMEAC
1200 Chambers Road, Room 310
Columbus, OH 43212

| | |
|--|------------------------|
| NARST News | June 1, 1988 |
| First Call for Proposals for 1989 | June 1, 1988 |
| NARST Annual Meeting | |
| NARST News Submission Deadline | August 1, 1988 |
| NARST News | September 1, 1988 |
| Second Call for Proposals for 1989 | September 1, 1988 |
| NARST Annual Meeting | |
| Deadline: Submission for Outstanding Paper and Practical Application Paper Awards | September 15, 1988 |
| Deadline: Proposals for 1989 | October 1, 1988 |
| NARST Annual Meeting | |
| Fall Board Meeting (Little Rock) | November 4, 5, 1988 |
| NARST News Submission Deadline | November 1, 1988 |
| NARST News | December 1, 1988 |
| Payment of 1989 Dues | January 1, 1989 |
| Deadline: Nominations for Distinguished Contributions to Science Education Research Award | January 15, 1989 |
| Elections Ballots Distributed | January 7, 1989 |
| Return of Ballots | February 7, 1989 |
| NARST News Submission Deadline | February 1, 1989 |
| NARST News | March 1, 1989 |
| Deadline: Pre-Registration for NARST Annual Meeting | March 15, 1989 |
| AERA Annual Meeting (San Francisco) | March 27-31, 1989 |
| NSTA Convention (Seattle) | April 6-9, 1989 |
| NARST Annual Meeting (San Francisco) | March 30-April 1, 1989 |
| NARST News Submission Deadline | May 1, 1989 |

University of Cincinnati
Cincinnati, OH 45221-0002

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Jo Ellen Roseman
Sci Ed./Sch. of Cont. Studies
Johns Hopkins University
Baltimore, MD 21218

Science Education Initiatives for the 1990s

Prepared by the
National Science Teachers Association
1742 Connecticut Avenue, NW
Washington, DC 20009
(202) 328-5800
September 7, 1988



To resolve the problems inherent in science education today, four areas require immediate initiatives:

1. Teacher preparation and staff development
2. Curriculum development
3. Instructional support
4. Research and dissemination

I. Preparation and Staff Development Initiatives

- Development of research-based preservice teacher preparation programs for elementary, middle, and high school teachers that are designed cooperatively by science educators, scientists, and practicing classroom teachers of science.
- Implementation of staff development programs for teachers of science who have a need to reinforce or enhance their science knowledge and science teaching skills.
- Recruitment of a greater number of highly qualified and competent individuals into science teaching (especially minority populations) and retention of these people in the science teaching profession.

II. Curriculum Development Initiatives

- Development and implementation of more unified, in-depth, hands-on science curricula for preschool, elementary, middle/junior high, and high school students.
- Development and utilization of evaluation and assessment tools that measure student achievement of higher order thinking skills.
- Production of materials designed for instructional administrators and lay people (e.g., principals, superintendents, school board members, and parents) that would provide better understanding of science education needs of students.
- Implementation of curricula for preparing science laboratory technicians to assist teachers.
- Development of curricula that would instruct teachers on the appropriate uses of technology in the classroom.
- Development of curriculum models that integrate science with the learning of other elementary school subject matter areas.

III. Instructional Support Initiatives

- Provision of appropriate electronic technologies to science teachers at all grade levels.
- Provision of funds for the construction of adequate science teaching facilities (e.g., activity centers and laboratories.)
- Development of regional science centers that would make the following available to local teachers:
 - A. models of effective teaching practices
 - B. science updates
 - C. research opportunities
 - D. media
 - E. science equipment and supplies

IV. Research

- Establishment of long-term funding for regional science education research centers that would conduct and disseminate research on:
- A. designs of science-teaching facilities
 - B. appropriate uses of technology
 - C. science curriculum for *all* students
 - D. instruction
 - E. science teaching practices that are taking place outside the United States.

Recommendations for Specific Federal Initiatives in Science Education

Prepared by the
National Science Teachers Association
1742 Connecticut Avenue, NW
Washington, DC 20009
(202) 328-5800
September 7, 1988



The National Science Foundation's Science and Engineering Education Directorate already has several effective programs that address aspects of the high-priority initiatives recommended by the National Science Teachers Association. The NSTA recommends the following additional programs.

I. Preparation and Staff Development Initiatives

A. Endowed discipline-oriented education chairs in Science Departments at colleges and universities

Rationale: Cooperation between college and university science departments and science educators and science teachers is rare. This is mainly due to the entrenched system of tenure and promotion based upon subject matter research. To the extent that a scientist involves himself or herself in science education activities, he or she risks rejection of tenure, promotion, or salary increases. University promotion policies reflect a low value on teaching, but instead focus strongly on published research and grant acquisition for such research. Endowed chairs focusing on education in that discipline, within a science department, would offer a strong incentive for involvement by bright young scientists who are interested in both teaching and research. These positions would ideally be joint appointments between a discipline department and the science education department within that university.

Specific Program: 100 endowed chairs for three years, 50 at universities and 50 at 4-year colleges. Funds would support 50% of salary. Cost per year: \$2.0 million.

B. Individually designed multi-summer programs for high school science teachers

Rationale: Present summer institute programs offered through both the federal government and states are far too short in duration to provide needed preparation. Furthermore, teachers have highly individualized needs. Individually designed programs would enable a teacher to identify his or her own strengths and weaknesses and design a multi-summer program of 8, 10, or 12 weeks in each of three consecutive summers to add areas of strength and correct weaknesses. For example, a teacher might enhance his or her background in a second or third field to better match multi-subject teaching assignments that are so common. Attending an institute designed as though all of the participants were the same does not address the needs of most teachers.

Specific Program: 2,000 three-summer individually designed fellowships for high school science teachers. These would be administered as a competition at NSF, based upon applications showing the ways such a fellowship would strengthen a teacher's knowledge and skills, and upon the teacher's ability to pursue the individually designed program. The

fellowships would provide \$500 per week plus tuition, fees, textbooks, and a travel and housing allowance. Total Cost: \$60 million.

C. Science teacher preparation fellowship and support programs for schools with a majority of "at risk" students

Rationale: Despite local, state, and federal programs, disadvantaged minorities are not entering programs of science or science teaching in significant numbers. The quality of science education in urban and rural schools with high dropout rates must be improved. Many such schools also contain high numbers of minority students. Fellowship funds provided to undergraduates in science who would agree to teach for at least three years in a high school with 50% or more dropout rates and at least 25% minority students would help address this crisis. Funds would be provided for undergraduate support; then upon graduation, funds would be provided for initial teaching support, with resources of personnel from a local college or university during the three-year period.

Specific Program: 2,000 undergraduate fellowship grants of \$5,000 per year for two years (junior and senior), with the requirement to teach for three years in an urban or rural school with a high dropout rate and significant minority population. Preference would be given to minority undergraduates, as a way of emphasizing role models in the teaching of science in these schools. Upon employment in a school, the teacher would be provided with an initial equipment grant of \$10,000 plus funds to support communications and coordination with a local museum, science center, or university science education department. These funds should serve as an inducement for employment of these well-qualified teachers. Total Cost: \$52 million.

II. Curriculum Development Initiatives

A. A program of improved testing and assessment

Rationale: Most tests being administered as part of the accountability movement are contributing to the decline in the quality of science education in the United States. Such tests typically measure simple facts and knowledge of the simple recall type. There is evidence that thinking skills and analytical abilities are declining. A program is needed that creates tests which measure abilities that require a higher level of reasoning and thought, along with applications of knowledge to real problems. Such tests must be developed cooperatively by scientists, science educators, and those in business and industry where real world problems are addressed daily.

Specific Program: Ten cooperative test development projects involving high school science subjects, middle school/junior high school science, and elementary school science, each involving scientists, science teachers, industrial representatives, and science educators. These should be centered at major universities or testing centers. Cost: \$10 million.

B. Laboratory technicians for high school science laboratories. A two-year technical curriculum for community and junior colleges

Rationale: A curriculum that trains paraprofessionals for support services for science departments in high schools is needed. Such support technicians are needed if school science is to retain the hands-on experience found essential to learning science properly. Funds are needed to create the curriculum, provide scholarships for students, and to pay partial costs for the first year of employment.

Specific Programs: (a) curriculum development project for a two-year curriculum to

prepare science laboratory technicians for high school science laboratories. This would be a large-scale development project to create courses and curriculum, and to operate the program at 10-12 community colleges for the formative evaluation. Total cost of curriculum: \$3 million.

(b) 1,000 scholarships of \$2,000 per year for two-year college students enrolled in curriculum. Total cost for scholarships: \$4 million.

(c) half-salary for each of 1,000 high school lab technicians for one year as incentive for schools to employ such persons for a minimum of three years. Total cost for first year half salary: \$8 million. Total program cost: \$15 million.

III. Instructional Support Initiatives

Regional science education resource centers

Rationale: Regional centers can be utilized to concentrate the resources needed by science teachers to improve their teaching. These centers can provide models of effective teaching practices, workshops on new techniques and technologies, opportunities for research in science teaching, use of media, and as a source of inexpensive supplies and equipment.

Specific Program: Phased funding of 200 regional science education centers throughout the United States. Centers would be funded through competitive proposals, for which one criterion would be the number of schools and science teachers served. Each center would be required to become self-sufficient within three years. Thus funding would start at 100% and be phased out over a three-year period. Centers would be funded for the first year at an average level of \$300,000. Total cost: first year, \$60 million; second year, \$40 million; third year, \$25 million.

IV. Research

Science education research and development centers

Rationale: Methods of teaching science have changed very little over the past 100 years. Yet there continues to be important research findings that have not found their way into teaching practice. If science education for all of our citizens is to occur, then the applications of such research results are even more important. Research on facilities, uses of technology, curricula and methodologies that are appropriate to the full range of students, and on the effective use of equipment and supplies, is essential. Dissemination of these research results could be accomplished through a system of five or six major science education research and development centers.

Specific Program: National science education research and development centers, with specialization. Six or seven of such centers, funded at the level of \$1 million per year for each, would provide a strong impetus for change within the nation's schools. Total Cost: \$7 million.

These NSTA recommendations, for a total of only \$206 million of additional NSF funding, would vastly improve the science education programs in the Nation's schools. It must be emphasized that these funds would be in addition to current levels of NSF funding for science and engineering education, and the programs recommended would be additional, not replacements for existing NSF programs. The current NSF programs are needed and effective. Most need to be funded at higher levels.



UNIVERSITY OF MINNESOTA
TWIN CITIES

Department of Curriculum and Instruction
College of Education
Peik Hall
159 Pillsbury Drive S.E.
Minneapolis, Minnesota 55455-0208

To: NARST Board
From: Fred N. Finley
Re: NARST Awards Committee Report
Date: November 4, 1988

1. This year 10 entries for the Outstanding Paper Award and 4 entries for the Practical Applications Award have been received and are being sent to the committee members for review.

2. We need to continue efforts to secure the entry of more papers into the competition, especially in the Practical Applications Award category. A total of only six nominations by someone other than the author(s) were received for the 1989 awards. The author(s) had already submitted five of those papers on their own.

Recommendation: The present procedure is that authors submit their own papers for consideration. That procedure should be continued, but be supplemented by the following. Each discussant (and in the absence of a discussant, the session chair) should be asked to return a card recommending a paper or papers (if any) that should be entered in one of the two awards categories. In addition, they should be asked to remind the audience that they can nominate papers as well by completing forms that will be left in the front of each meeting room. The author(s) of papers nominated in these ways then would be contacted and invited to submit their papers for review.

3. The low number of entries in the Practical Applications Award category results in a problem when the Awards Committee is asked to provide papers for the NSTA meeting. There are seldom enough high quality papers to fill the allotted time.

Recommendation: Only the winning paper should be considered as automatically recommended for inclusion in the NSTA meeting program.

REPORT OF THE RESEARCH COMMITTEE

Fall 1988

Submitted for the Committee

by

Rodger W. Bybee
Research Coordinator

INTRODUCTION

The Research Committee had no specific directives after the spring 1988 NARST Board meeting. This report describes the coordination of NARST and NSTA presentations at the fall regional NSTA meetings, the authors/titles for this year's volume of Research Matters, and the recommendation relative to training sessions at the annual meeting.

COORDINATION WITH NSTA

The Research Coordinator made arrangements for the following presentations at the 1988 regional NSTA meetings.

| <u>NARST Member</u> | <u>Topic</u> | <u>Regional Meeting</u> |
|-----------------------------|---|-------------------------|
| Bill Robertson | Conceptual Learning | Portland, ME |
| Jim Ellis | Microcomputers in the Science Classroom | Columbus, OH |
| Bill Kyle and Jim Shymansky | Teaching for Conceptual Change | Charleston, SC |

These NARST sessions will be coordinated with NSTA sessions on "Every Teacher A Researcher." Bill Kyle, Research Coordinator for NSTA, has done an excellent job of arranging these sessions.

"RESEARCH MATTERS...1988"

The authors and topics for this year's volume of Research Matters are listed below. Some of the authors were listed in last year's report, but failed to meet the deadline. Those authors delivered their manuscripts on time for the 1988 volume.

Using Research to Improve the Quality of Classroom Discussions

J. Nathan Swift
C. Thomas Gooding
Patricia R. Swift
State University of New York--Oswego

Using Textbooks for Meaningful Science Learning
Using Inquiry Laboratory Strategies in College Science Courses

Sarah L. Ulerick
Florida State University
William H. Leonard
Clemson University

Changing and Measuring Attitudes in the Science Classroom

Thomas R. Koballa Jr.
University of Texas at Austin

TRAINING SESSIONS AT THE ANNUAL MEETING

At the recommendation of Bill Holiday, we will not have training sessions at the 1989 annual meeting. The program committee recommended this change due to budgetary considerations and the fact that there will be an extra general session and a reception at the Science Exploratorium. The Research Coordinator supports the recommendation.

NAARST Board Meety

Report from Journal Editor

1. Provided the board with the tables to show manuscript flow

Editorial Review Board. New nominations ~~has been~~ were presented for Board consideration.

Motion Accept report

(Wright, Bybee)
Carried.

EXECUTIVE SECRETARY

Dr. Glenn Markle
NARST
University of Cincinnati
Cincinnati, OH 45221-0002
(513) 475-2335

Organized to improve science teaching—through research

NARST

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

PRESIDENT

Dr. Patricia E. Blosser
Science Education
The Ohio State University
Columbus, OH 43210-1172

October 27, 1988

To: NARST Board Members

From: Patricia E. Blosser
President, 1988-89

PRESIDENT-ELECT

Dr. William G. Holliday
Science Teaching Center
The University of Maryland
College Park, MD 20742

Re: Items for Saturday Meeting

IMMEDIATE PAST PRESIDENT

Dr. Linda DeTure
Education and Human Development
Rollins College
Winter Park, FL 32789

Enclosed are the rankings of the items that were circulated earlier. Six of the 12 persons eligible to rank returned the questionnaire. One person did not use the specified ranking system. Several people added one or more items for discussion, usually ranking their contribution as #1 so this should be taken into consideration when the rankings are studied.

BOARD MEMBERS-AT-LARGE

Dr. Charles Anderson (1990)
College of Education
Michigan State University
East Lansing, MI 48824

Dr. Lowell J. Bethel (1991)
Science Education Center—EDB340
The University of Texas at Austin
Austin, TX 74712

Dr. Fred Finley (1990)
Curriculum and Instruction
University of Minnesota
Minneapolis, MN 55455

Dr. Ronald Good (1989)
Dept. of Curriculum and Instruction
Louisiana State University
Baton Rouge, LA 70803

LeMoine Motz (1989)
NSTA
1742 Connecticut Avenue, N.W.
Washington, D.C. 20009

Dr. Robert Sherwood
College Box 45, Peabody
Nashville, TN 37203

Dr. Emmett Wright (1989)
Dept. of Curriculum and Instruction
Kansas State University
Manhattan, KS 66506

The additional concerns have been included with this letter for your consideration. Some relate directly to earlier items; others bring up new questions.

Please bring these papers with you to Little Rock. If you think of additional items for discussion, bring these along - as well as your thoughts on those already identified.

JOURNAL EDITOR

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

RESEARCH COORDINATOR

Dr. Rodger Bybee (1989)
B.S.C.S.
Colorado College
Colorado Springs, CO 80903

NARST-NEWS EDITOR

Dr. Thaddeus W. Fowler (1989)
University of Cincinnati
Cincinnati, OH 45221-0002

NARST ISSUE MEETING
Possible Discussion Items

Directions: Listed below are some concerns that NARST members have identified. Some are issues (have two different points of view, at least); others are problems. Please add your own problems or issues and then rank the entire list in order of priority for discussion. (1=most important item, first for discussion)

- RANK
- 3 A .(Relates to membership): Who should be eligible? Should classroom teachers be full members of NARST or associate members? Should NARST have different types of memberships? If not, why not? If yes, what should these be?
- 9 A . (Also membership, but also finance): NARST is an international organization. Frequently, when international members pay their NARST dues or register for the annual meeting, they do not take the exchange rate into consideration when providing payment. As a result, NARST or the executive secretary's institution ends up making up the missing funds. Should all NARST members have to be "taxed" to make up these monies? Should international members be charged higher rates? How should this situation be handled?
- 7.5 B. (Meetings): Problems have arisen because of the practice of NARST holding its annual meeting in conjunction with either AERA or NSTA. Should this practice be continued or should NARST meet on its own?
- 7.5 A#B . (Meetings) About five years ago, in order to be able to finance a fall board meeting, NARST began the practice of meeting in connection with one of the NSTA area meetings. The rationale was that NARST board members would submit a proposal for a presentation at the NSTA meeting and thus their institution would support their travel and expenses, saving NARST funds for other uses. Not all NARST board members do this. Frequently the funds at their institution are limited. Those who do present NSTA presentations then have to juggle their NSTA participation and the NARST board meeting. Should this practice be discontinued or not? If yes, how can NARST save on expenses and still maintain the fall board meeting?
- 1 C (Publications) How can NARST continue to maintain a high quality journal?
- 5.5 C. (Publications) Apparently some NARST members have suggested that NARST issue position statements of an informational (as opposed to political) nature. Is this part of NARST's mission? If so, how can these be funded?
- 5.5 B (Program) At least one NARST member has written me two letters urging that the Program Committee revise its policy of not accepting NARST proposals in which no data have been collected or of assigning such papers to Poster Sessions. His rationale for wanting the change appears to be (a) we are preventing the discussion of "promising" research and (b) AERA accepts papers for which no data are collected and for which no conclusions can be drawn.

2 C (Publications) Should NARST have publications other than the newsletter and JRST? If so, what should these be and how can they be financed and disseminated?

4 B (President's Term of Office): Mike Padilla has written a letter stating that, in his opinion, the NARST president should have a two-year term in office. His rationale is that most NARST presidents are sufficiently unfamiliar with the workings of the NSTA board that they cannot be active participants (for NARST interests) in board discussions and politics during their year on the board. Mike advocates the two-year term so the NARST president can learn his/her way around the board the first year and be influential the second. Should NARST consider a by-law change for this and/or other reasons to increase the president's term?

10 B (Communications) How can NARST use ICASE for more than linking with other organizations?

1?. (your agenda)

TABLE 1
MANUSCRIPT RECORD VOLUME 25 (1988)

| DESCRIPTION | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 |
|---------------------------|------|------|------|------|------|------|
| Manuscripts Received | 132 | 147 | 150 | 160 | 120 | 148 |
| Manuscript Pages Rec'd. | 2675 | 2840 | 3021 | 3200 | 3000 | 3625 |
| Comments & Criticisms | 11 | 4 | 6 | 4 | 6 | 5 |
| Book Reviews | 0 | 2 | 0 | 0 | 0 | 0 |
| Manuscripts Accepted | 81 | 56 | 59 | 60 | 55 | 70 |
| Manuscript Pages Accepted | 1915 | 1120 | 1169 | 1200 | 1375 | 1750 |
| Manuscripts Rejected | 75 | 47 | 44 | 50 | 50 | 63 |
| Manuscripts Deactivated | 8 | 0 | 0 | 0 | 0 | 0 |
| Manuscripts in Revision* | 29 | 24 | 51 | 30 | 50 | 60 |
| Manuscripts in Review | 9 | 11 | 56 | 20 | 30 | 40 |
| Acceptance Rate (%) | 49 | 56 | 58 | 38 | 45 | 47 |
| Rejection Rate (%) | 51 | 47 | 46 | 31 | 41 | 43 |

* 30 Manuscripts are in for Major Revisions.

FIGURE 1

1988 JOURNAL EDITORIAL BOARD

| | 1st Term | 2nd Term | | 1st Term | 2nd Term |
|-------------------|-------------|-------------|------------------|-------------|-------------|
| Dale Baker | 88 | 90 | William LaShier | 89 | 91 |
| Donna Berlin | 89 | 91 | Joy Lindbeck | 89 | 91 |
| George Bodner | 88 | 90 | Victor Mayer | | 89 |
| Ron Bonstetter | 89 | 91 | Bruce Perry | 89 | 91 |
| Ted Bredderman | 89 | 91 | Peter Rubba | | 89 |
| William Capie | | 88 | Robert Shrigley | 88 | 90 |
| Eugene Chiappetta | 88 | 90 | Mike Smith | 89 | 91 |
| Linda Cronin | 89 | 91 | Barbara Strawitz | | 89 |
| Linda Crow | | 88 | Ken Tobin | | 88 |
| Willis Horak | | 88 | David Treagust | 89 | 91 |
| Heidi Kass | 88 | 90 | Michael Waugh | 88 | 90 |
| Joseph Krajcik | 89 | 91 | Emmett Wright | | 89 |
| Gerald Krockover | 89 | 91 | Dana Zeidler | | 88 |

FIGURE 2

1989 JOURNAL EDITORIAL BOARD

| | 1st Term | 2nd Term | | 1st Term | 2nd Term |
|-------------------|-------------|-------------|------------------|-------------|-------------|
| Hannah Arzi | 90 | 92 | William LaShier | 89 | 91 |
| Dale Baker | | 90 | Joy Lindbeck | 89 | 91 |
| Donna Berlin | 89 | 91 | Victor Mayer | | 89 |
| George Bodner | | 90 | Steve Oliver | 90 | 92 |
| Ron Bonstetter | 89 | 91 | Bruce Perry | 89 | 91 |
| Ted Bredderman | 89 | 91 | Peter Rubba | | 89 |
| Eugene Chiappetta | | 90 | Robert Shrigley | | 90 |
| Frank Crawley | 90 | 92 | Patricia Simmons | 90 | 92 |
| Linda Cronin | 89 | 91 | Mike Smith | 89 | 91 |
| Jim Ellis | 90 | 92 | Barbara Strawitz | | 89 |
| Gaalen Erickson | 90 | 92 | David Treagust | 89 | 91 |
| Heidi Kass | | 90 | Michael Waugh | | 90 |
| Joseph Krajcik | 89 | 91 | Emmett Wright | | 89 |
| Gerald Krockover | 89 | 91 | | | |

FIGURE 3

NAMES AND ADDRESSES OF NEW MEMBERS
JOURNAL EDITORIAL BOARD
BEGINNING 1989

Hannah Arzi
(current)
Center for Science Education
P. O. Box 22685
Tel Aviv 61226
Israel

(1989)
University of Arizona
School of Education
Tucson, AZ 85721

Frank Crawley
Science Education Center
University of Texas at Austin
Austin, TX 78712

Jim Ellis
BSCS
1115 N. Cascade Avenue
Colorado Springs, CO 80903

Gaalen Erickson
Faculty of Education
University of British Columbia
Vancouver, BC V6T 1Z5
Canada

Steve Oliver
Curriculum and Instruction
249 Bluemont Hall
Kansas State University
Manhattan, KS 66506

Patricia Simmons
Science Education Department
University of Georgia
212 Aderhold
Athens, GA 30602



ERIC® Clearinghouse for Science,
Mathematics and Environmental
Education

Room 310
1200 Chambers Road
Columbus, OH 43212-1792
Phone 614-292-6717

DATE: October 28, 1988

TO: Dr. Patricia Blosser, President
NARST

FROM: Dr. Robert Howe

Bob Howe

RE: Triangle Coalition

Triangle Coalition activities have involved liaison activities with the Triangle Coalition and reviewing with others what NARST might do.

1. We are now in a position where the NARST committee needs to review Triangle Activities and to identify possible roles NARST might assume.

Several people have suggested that the preparation of research reviews with implications for practice would be a major useful activity. We will have a report to the NARST Board prior to the NARST annual meeting.

A second suggested role is coordinated collection, analysis, and publication of data from all the states in cooperation with NSSA or a similar group.

Other possible roles have also been suggested.

2. The Triangle Coalition has issued a position paper they would like to have member groups review and if possible, endorse. Copies will be sent to all NARST Board members.

If the NARST Board endorses the statement, single copies can be sent by the SMEAC/IRC at The Ohio State University to all NARST members in the United States. An alternative could be to include it in a NARST mailing.

3. Bob Howe will attend the Annual Triangle Coalition meeting in Washington, DC November 16. No cost to NARST.
4. Bob Howe will also attend a conference on Partners in Education November 17, 18, and 19 in Washington, DC. NARST can have space to distribute brochures on NARST if we desire. The conference is sponsored by the White House to encourage partnerships of all types including education. No cost to NARST.

RWH/bjb



UNIVERSITY OF MINNESOTA
TWIN CITIES

Department of Curriculum and Instruction
College of Education
Peik Hall
159 Pillsbury Drive S.E.
Minneapolis, Minnesota 55455-0208

To: NARST Board
From: Fred N. Finley
Re: NARST Awards Committee Report
Date: November 4, 1988

1. This year 10 entries for the Outstanding Paper Award and 4 entries for the Practical Applications Award have been received and are being sent to the committee members for review.

2. We need to continue efforts to secure the entry of more papers into the competition, especially in the Practical Applications Award category. A total of only six nominations by someone other than the author(s) were received for the 1989 awards. The author(s) had already submitted five of those papers on their own.

Recommendation: The present procedure is that authors submit their own papers for consideration. That procedure should be continued, but be supplemented by the following. Each discussant (and in the absence of a discussant, the session chair) should be asked to return a card recommending a paper or papers (if any) that should be entered in one of the two awards categories. In addition, they should be asked to remind the audience that they can nominate papers as well by completing forms that will be left in the front of each meeting room. The author(s) of papers nominated in these ways then would be contacted and invited to submit their papers for review.

3. The low number of entries in the Practical Applications Award category results in a problem when the Awards Committee is asked to provide papers for the NSTA meeting. There are seldom enough high quality papers to fill the allotted time.

Recommendation: Only the winning paper should be considered as automatically recommended for inclusion in the NSTA meeting program.

EXECUTIVE SECRETARY

Dr. Glenn Markle
NARST
University of Cincinnati
Cincinnati, OH 45221-0002
(513) 475-2335

NARST

Organized to improve science teaching—through research

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

PRESIDENT

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

PRESIDENT-ELECT

Dr. William G. Holliday
Science Teaching Center
The University of Maryland
College Park, MD 20742

IMMEDIATE PAST PRESIDENT

Dr. Linda DeTure
Education and Human Development
Rollins College
Winter Park, FL 32789

BOARD MEMBERS-AT-LARGE

Dr. Charles Anderson (1990)
College of Education
Michigan State University
East Lansing, MI 48824

Dr. Lowell J. Bethel (1991)
Science Education Center—EDB340
The University of Texas at Austin
Austin, TX 74712

Dr. Fred Finley (1990)
Curriculum and Instruction
University of Minnesota
Minneapolis, MN 55455

Dr. Ronald Good (1989)
Science Education
Florida State University
Tallahassee, FL 32306

LeMoine-Motz (1989)
NSTA
1742 Connecticut Avenue, N.W.
Washington, D.C. 20009

Dr. Robert Sherwood
College Box 45, Peabody
Nashville, TN 37203

Dr. Emmett Wright (1989)
Dept. of Curriculum and Instruction
Kansas State University
Manhattan, KS 66506

JOURNAL EDITOR

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

RESEARCH COORDINATOR

Dr. Rodger Bybee (1989)
B.S.C.S
Colorado College
Colorado Springs, CO 80903

NARST-NEWS EDITOR

Dr. Thaddeus W. Fowler (1989)
University of Cincinnati
Cincinnati, OH 45221-0002

TO: Patricia Blosser

FROM: Linda DeTure
Mark Malone
John Renner

DATE: October 1988

RE: Report of the Elections Committee

The Elections Committee is pleased to present the following ballot for the 1989 Election. Each of the nominees has been contacted and has agreed to have his/her name placed in nomination and to serve if elected.

PRESIDENT-ELECT

Rodney Doran
Jane Kahle

SUNY at Buffalo
Perdue University

RESEARCH COORDINATOR

Frances Lawrenz
Joseph Riley

University of Minnesota
University of Georgia

BOARD MEMBERS-AT-LARGE

Michael Abraham
Dale Baker
Donald McCurdy
Kenneth Tobin

University of Oklahoma
University of Utah
University of Nebraska
Florida State University

Recommended Action of the Board. We move that the report of the Elections Committee be accepted.



ERIC® Clearinghouse for Science,
Mathematics and Environmental
Education

Room 310
1200 Chambers Road
Columbus, OH 43212-1792
Phone 614-292-6717

DATE: October 28, 1988

TO: Dr. Patricia Blosser, President
NARST

FROM: Dr. Robert Howe *Bob Howe*

RE: Triangle Coalition

Triangle Coalition activities have involved liaison activities with the Triangle Coalition and reviewing with others what NARST might do.

1. We are now in a position where the NARST committee needs to review Triangle Activities and to identify possible roles NARST might assume.

Several people have suggested that the preparation of research reviews with implications for practice would be a major useful activity. We will have a report to the NARST Board prior to the NARST annual meeting.

A second suggested role is coordinated collection, analysis, and publication of data from all the states in cooperation with NSSA or a similar group.

Other possible roles have also been suggested.

2. The Triangle Coalition has issued a position paper they would like to have member groups review and if possible, endorse. Copies will be sent to all NARST Board members.

If the NARST Board endorses the statement, single copies can be sent by the SMEAC/IRC at The Ohio State University to all NARST members in the United States. An alternative could be to include it in a NARST mailing.

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RWH/bjb

SCHOOL OF EDUCATION
UNIVERSITY OF COLORADO
C.B. 249
Boulder, Colorado 80309

September 15, 1988

Dr. Linda DeTure
Education and Human Development
Rollins College
Winter Park, FL 32789

Dear Linda:

The search committee for a new editor of JRST has completed its work and is pleased to inform you of the results of its deliberations.

Glenn Markle forwarded to me application materials from three institutions:

Frances Lawrenz (proposed editor)
Fred Finley (proposed associate editor)
University of Minnesota

William Kyle (proposed editor)
A team of three science educators (proposed associate editors)
Purdue University

Ron Good (proposed editor)
A new faculty member to be named (proposed associate editor)
Louisiana State University

The full sets of materials received from these three institutions were duplicated and sent to the other two members of the search committee, Marianne Betkouski-Barnes and John Staver.

After having an opportunity to review these materials the committee conferred via a conference telephone call. Following lengthy deliberation, the committee decided to focus its continued deliberations on the applications from Purdue and Louisiana State and seek additional information from personnel at these institutions.

Following this meeting of the committee, I telephoned people at Purdue and Louisiana State, including the appropriate administrators, to confirm information in the applications and seek additional information the committee felt it needed.

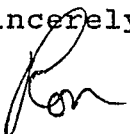
The next meeting of the committee again was held via conference telephone call and a decision was reached. While both of the finalists had strong applications, the consensus of the committee was that the Louisiana State application got the edge because of the greater experience of Ron Good along with the expectation that he will be a good manager of the processes involved and that he has the time at this point in his career to devote to this demanding office.

One of the questions the committee had about the Louisiana State application was the unnamed associate editor. My telephone calls to an administrator at LSU confirmed that not only was the position firm but that they were about to finalize the appointment of a person. Although the appointment was not yet official at the time, every indication was that Mike Smith, a NARST member, was about to be appointed to the position and that he had a high interest in the role of associate editor. All aspects of the institutional commitment to the editorial office, including faculty time, appeared strong.

One of the questions the committee had about the Purdue application was whether or not Bill Kyle was on tenure yet, both out of a concern for him and for NARST if he were not in a firm position. My phone calls removed most of the concern on this matter. While an official tenure decision for Bill is not due until the early part of this academic year, I was informed by an administrator that his record was viewed as strong and no difficulties were anticipated with regard to tenure.

The above two paragraphs are here largely as background for you and to let you know that we carefully reviewed all aspects of the applications we received. In conclusion, we are recommending the appointment of Ron Good as the next editor of JRST for the reasons given earlier.

Sincerely,



Ronald D. Anderson
Professor

P.S. As a committee, we agreed that we would release no information about our recommendation to the applicants or other NARST members because that information properly should come from you. So, when I get questions I will refer the person to you for whatever information you wish to release about our recommendation or a subsequent board decision.

cc: Marianne Betkouski-Barnes
John Staver

1989 FALL MEETING OF THE EXECUTIVE BOARD

National Association for Research in Science Teaching
Little Rock, AR

November 4, 1988

MINUTES

Board members in attendance

Dr. Charles Anderson

Dr. Ron Dood

Dr. Patricia Blosser

Dr. William Holliday

Dr. Glenn Markle

Dr. Roger Bybee

Dr. Robert Sherwood

Dr. Linda DeTure

Dr. Russell Jensen

Dr. Fred Finley

Dr. Emmett Wright

A. Opening Remarks by the President

The meeting was opened ^{at 8:30 am} with remarks by President Blosser.

B. Minutes December April 10.

Motion: approved

Bill, Linda

Carroll

Minutes April 12

Motion: approved with corrections

Bill, Fred

Carroll

C. Financial Advisory Committee

Emmet Wright

The financial Advisory Committee report

Motion: Accept FAC Report
Russell, Bob S

Motion: Mr Executive Secretary and Financial Advisory Committee
prepare a recommendation for investing of Association
contingency funds and submit it to the Board for
consideration at the Spring meeting.
Good, Holliday.
Motion carried.

D. Publications Advisory Committee

Ken Dodd.

Ken Dodd reported on the ongoing ^{monograph} publication activities
Barry Frazer - group (Classroom Environment)
Tony Lawson, Jack Lamer, ^{public abstracts} group. (The Learning Cycle)
Both groups are making progress and should have
materials for distribution at the Spring meeting.
Ken believes the Lawson, Lamer material will be of interest
to NSTA types. Ken suggested approaching NSTA about
jointly publishing these materials.

We will need to ~~plan~~ have funds available to print the monographs.

Should the monograph be free to members or should there be a modest charge? Would it be given to members who ~~remain~~ register for the Annual meeting?

{ Linda indicated that members should pay the cost of reproducing the monographs. Bill and Russell agreed.

The ~~monograph~~ monograph should be covered beyond the NARST membership.

Ron opposed believe that we should not have money on this venture. Roger agreed, members should not be "gouged", but cost should be covered.

The idea of using a publisher to print and distribute the materials was discussed. Possible publishers are NSTA, KINKO'S, ^{Wiley, Kendall Hunt} and others. ~~Ron Good~~ Bill Aldridge and Phyllis Marcucci would be the contact person.

Ron suggested that for the spring meeting, we print 300 copies for distribution to our members.

Ron Good & Helen Marble will explore publication possibilities with NSTA and report back in the Spring.

Electronic Mail (Bitnet) address : _____

Science Education Initiatives for The 1980's.

Discussed this document with Hans Andersen & Lorraine Hertz.

The document is a draft document & will continue to be a draft for ever. It is an effort to be more "practical" on the part of IOSTA. The strategy was to prepare a 2 page document that sets priorities.

Source was 55 science educators on the way to Australia.

7. Past President's Report - Linda DeTore
discussed activities of past year

Motion: Accept report
(Anderson, Wright)
Carried.

8. President elect report.

No report.
Motion (Anderson, Sheppard)
Carried.

K. New Business

1. Journal Editor -
Opposed
2. ERIC Partners

Motion: Moved that NAOST become an
ERIC Partner
(Holladay, Wright)
Carried.

(5)

Motion: Moved that 500 copies of each monograph be produced for ^{distribution at} the Spring, 1989 meeting. Monographs would be sold at ~~the~~ a price sufficient to ^{to} recoup all costs.

(John Young)
Carried.

~~For use -~~

Motion: Moved that ^{the chair of the publication committee} ~~for~~ have the authors ^{of these monographs} sign a document giving NAEAST ~~retains~~ copyright ~~right~~ for the author's use of the material. (author could use material in letters, articles, books, chapters, ect).

~~For~~ (Holliday, Finley)
Carried

4. Triangle Coalition

- Discussion Report.

Send Motions for display to Buckner, R. 199,
Bob Howe is the contact for this.

Motion: Accept the report.
(Holley, Anderson)
Carried.

5. ICACE Report

Report discussed.

Motion: Accept Report
(Byrnes, Dodd)
Carried.

6. President's Report

Report discussed.

Motion: Accept Report
(Dodd, Holley)
Carried.

E. Policy Committee Report

Linder

Juda reported ^{that} Policies Handbook ^{is being prepared.} Issues around the handbook will be discussed at the meeting tomorrow.

Motion accept report.

Boyer, Emmett
Carries

F. Program Committee

Bill Blahly

Reported on progress in planning The Annual meeting

3/30 - 4/1

Thursday - Sat.

Reviewed ^{annual meeting} The program. ^{The efforts of} The program committee ~~was~~ of work recognized.

222 proposals were received. There are about 400 different people involved in ~~the~~ preparing these papers. 27 proposals were rejected. The poster sessions will be expanded from 25 to 75 and upgraded.

Bill described the various types of proposals and how they would be used in the program.

Paroline

Motion: Map & Business of the City for 45¢ to meet in the registration packet.

(Cowan, Sherman)
~~at 10:00~~ motion carried.

6 X 3 = 18
OTS :

J Ad Hoc Committee Reports

1. Investigations in Service Education -

Report by Pat Blosser

Motion: Accept report

Hollberg, Wright

Carroll

2. International Issues

Report discussed

Stamps

Motion: Accept

(DeTure, ~~Bob~~ Bob)

Carroll

3. Teacher Union Committee

Reports discussed

Motion: Accept the report

(Young, ~~Paul~~ Paul)

Carroll

I Exec Sec Report

1990 Use Hilton 9/8-11

Bel, basic

1991 ^{Motion} Albany 7-10
(Holiday, Family)
Comms

Motion Demand that FAC consider the cost of printing lists
Report to Board.

Bill Holby → FAC

Motion Oppose the 1989 Budget
(Wright, Family)
Comid

G Research Committee

Bybee

Roger reported on the coordination of NARST presentations at NSTA meetings.

The Research Matters for 1989 are in hand and will be forwarded to the executive secretary in the near future.

^{Introduction of}
The board discussed Research Matters and decided to place it on the agenda for Saturday's issues session.

H. Modified agenda to discuss ^{recommendations} ~~nomination~~ for JST Editor. Dickson (a candidate) is presenting a paper.

Motion. Moved That Ken Good be named editor of JST beginning in 1990. During 1989-90, Ken will serve as (Byrce, Wright) associate editor for several years.

We need to get agreement from W. Byrce announcing the appointment.

Motion carried.

Andy Anderson recommended that the next time we select an editor, that the report from the selection committee be delivered in person by the ^{selection} committee chairperson.

Will suggest that the chair could be selected for the Board.

F. Elections Committee

Report by Linda DeTune. The following candidates were nominated:

Action: accept the nominations.
(Holliday, Finlay)

Carroll

G. Awards Committee

1. ~~J. J. G.~~ JOST

In the absence of Lowell Bellard, Pat Blum

Action: receive report
(Linda DeTune)

2. Outstanding Paper Awards

Report by Fred Finlay
discuss strategies for soliciting more applications for these awards.

Suggests that a remuneration sheet be included in the registration packet.
Also, have discussion nominate papers.

Discussions should be asked to rate session, rate quality of discussions, ~~the~~ and to check a box if a paper ~~was~~ is a ~~strong~~ candidate for the practical application award.

Fred recommended ~~and stated~~ using ^{only} the winning practical applications papers for NSDA presentation

Motion Accept Rept
(Anderson, Holliday)

3. Distinguished Contribution Award

Pat Blaser summarized the report by Ann Howe.

The major recommendation is to not carry over the nominations from one year to the next.

In other words, candidates' files would ~~not~~ need to be reconstructed.

Motion

Motion

~~The Board recommends that files~~ ^{of candidates for} ~~be active~~ ^{at} ~~for 3 years.~~ ³⁰ ~~After 3 years,~~ ^{of Distinguished} ~~new~~ ^{contributions} ~~credentials would need to be submitted for consideration~~ ^{announced}
(Bybee, Holliday)
Carried.