

Budget Ballots \_\_\_\_\_  
Planning Mtg \_\_\_\_\_  
NL \_\_\_\_\_  
Dues Notice \_\_\_\_\_  
ICASE Rep. \_\_\_\_\_  
✓ 1976 Meeting Abstracts \_\_\_\_\_  
✓ Increase JRSST \_\_\_\_\_  
NIE report distrib. \_\_\_\_\_

Transfer Exec Sec

NATIONAL ASSOCIATION FOR RESEARCH  
IN SCIENCE TEACHING

Meeting of Executive Board  
Chicago, Illinois  
November 20-21, 1975

NL

Biographical Sketches  
Announce Time & Place of S.F. meeting  
Dues notice National  
Change of Exec Sec

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NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

1975-76 Leadership Team

EXECUTIVE BOARD

Term Expires

President - Ronald D. Anderson School of Education University of Colorado Boulder, Colorado 80302	1976
President Elect - O. Roger Anderson Department of Science Education Teachers College, Columbia University New York, New York 10027	1976
Secretary-Treasurer - Paul E. Bell Division of Academic Curriculum and Instruction Pennsylvania State University University Park, Pennsylvania 16802	1976
Immediate Past President - Robert E. Yager Science Education Center University of Iowa Iowa City, Iowa 52242	1976
Research Coordinator - Stanley Helgeson Faculty of Science Education Ohio State University Columbus, Ohio 43210	1977
Editor - David P. Butts, Ex Officio Science Education University of Georgia Athens, Georgia 30601	1979

BOARD MEMBERS

Term Expires

Richard L. Sagness  
Science Education  
University of South Dakota  
Vermillion, South Dakota 57069

1976

Marvin Druger  
800 Biological Research Laboratories  
Syracuse University  
Syracuse, New York 13210

1976

Betsy A. Balzano  
Department of Curriculum and Instruction  
State University of New York  
Brockport, New York 14420

1977

James R. Okey  
School of Education  
Indiana University  
Bloomington, Indiana 47401

1977

Glenn Berkheimer  
E37 McDonel Hall  
Michigan State University  
East Lansing, Michigan 48823

1978

James Joseph Gallagher  
College of Environmental and Applied Science  
Governors State University  
Park Forest South, Illinois 60466

1978

STANDING COMMITTEES

POLICY ADVISORY

Term Expires

Robert E. Yager, Chairman  
Science Education Center  
University of Iowa  
Iowa City, Iowa 52242 1976

Rita W. Peterson 1977  
Department of Teacher Education  
California State University  
Hayward, California 94542

Charles R. Granger 1976  
Department of Biology  
University of Missouri  
St. Louis, Missouri 63121

O. Roger Anderson 1976  
Department of Science Education  
Teachers College, Columbia University  
New York, New York 10027

FINANCIAL ADVISORY

Glenn Berkheimer, Chairman 1978  
E37 McDone1 Hall  
Michigan State University  
East Lansing, Michigan 48823

Arthur White 1978  
Science Education  
Ohio State University  
Columbus, Ohio 43210

Bernard W. Benson 1977  
School of Education  
University of Tennessee  
Chattanooga, Tennessee 37401

Paul E. Bell (Secretary-Treasurer), Ex Officio 1976  
Division of Academic Curriculum and Instruction  
Pennsylvania State University  
University Park, Pennsylvania 16802

David H. Ost 1976  
Science Education  
California State College - Bakersfield  
Bakersfield, California 93309

PUBLICATIONS ADVISORY

Term Expires

Richard L. Sagness, Chairman  
Science Education  
University of South Dakota  
Vermillion, South Dakota 57069  
1976

Elaine J. Anderson  
Wisconsin Research and Development  
Center for Cognitive Learning  
1025 W. Johnson Street  
Madison, Wisconsin 53706  
1978

Patricia E. Blosser  
Science and Mathematics Education  
Ohio State University  
Columbus, Ohio 43210  
1976

Vincent N. Lunetta  
Science Education Center  
University of Iowa  
Iowa City, Iowa 52242  
1977

David P. Butts (Editor) Ex Officio  
Science Education  
University of Georgia  
Athens, Georgia 30601  
1979

PROGRAM

O. Roger Anderson, Chairman  
Department of Science Education  
Teachers College, Columbia University  
New York, New York 10027  
1975

Russell Yeany  
Department of Secondary Education  
Southern Illinois University  
Carbondale, Illinois 62901  
1977

Carl F. Berger  
College of Education  
University of Michigan  
Ann Arbor, Michigan 48104  
1977

Paul Beisenherz  
College of Education  
Louisiana State University  
New Orleans, Louisiana 70126  
1976

PROGRAM CON'T.

Term Expires

John Schaff  
College of Education  
University of Toledo  
Toledo, Ohio 43606

1976

Stanley Helgeson (Research Coordinator), Ex Officio  
Faculty of Science Education  
Ohio State University  
Columbus, Ohio 43210

1977

RESEARCH

Stanley Helgeson (Research Coordinator), Chairman  
Faculty of Science Education  
Ohio State University  
Columbus, Ohio 43210

1977

Edward Smith  
Michigan State University  
E37 McDonel Hall  
East Lansing, Michigan 48824

1978

William Torop  
Department of Chemistry  
West Chester State College  
West Chester, Pennsylvania 19380

1976

Paul G. Koutnik  
Mid-Continent Regional Educational Laboratory  
104 East Independence Avenue  
Kansas City, Missouri 64106

1977

ELECTION

Robert E. Yager, Chairman  
Science Education Center  
University of Iowa  
Iowa City, Iowa 52242

1976

Gene E. Hall  
University of Texas at Austin  
3.214 Education Annex  
Austin, Texas 78712

1976

J. Myron Atkin  
University of Illinois  
Education Building  
Urbana, Illinois 61801

1976

SPECIAL COMMITTEES

JRST AWARD

Term Expires

Calvin W. Gale, Chairman  
Office of Teacher Education  
Michigan Technological University  
Houghton, Michigan 49931

1976

Donald E. Riechard  
Division of Educational Studies  
Emory University  
Atlanta, Georgia 30083

1976

Jack E. Sherman  
School of Education  
University of Colorado  
Colorado Springs, Colorado 80907

1976

James R. Okey  
School of Education  
Indiana University  
Bloomington, Indiana 47401

1976

J. Dudley Herron  
Department of Chemistry FWA3  
Purdue University  
West Lafayette, Indiana 47907

1976

PATRON AWARD

John T. Wilson, Chairman  
Science Education Center  
University of Iowa  
Iowa City, Iowa 52242

1976

James Joseph Gallagher  
College of Environmental and Applied Science  
Governors State University  
Park Forest South, Illinois 60466

1976

Edwin Arnfield  
Macomb Community College  
14500 Twelve Mile Road  
Warren, Michigan 48093

1976

Jack Easley  
University of Illinois  
Urbana, Illinois 61801

1976

John Koran  
Curriculum and Instruction Division  
University of Florida  
Gainesville, Florida 32601

1976

PATRON ACTIVITIESTerm Expires

George T. O'Hearn, Chairman  
 Department of Education  
 University of Wisconsin-Green Bay  
 Green Bay, Wisconsin 54301

1976

Carleton W. Knight  
 Department of Education  
 University of Delaware  
 Newark, Delaware 19711

1976

Jerry G. Horn  
 School of Education  
 University of South Dakota  
 Vermillion, South Dakota 57069

1976

Will L. Selser  
 Science Education  
 Northeast Missouri State University  
 Kirksville, Missouri 63501

1976

Victor J. Mayer  
 College of Education  
 Ohio State University  
 Columbus, Ohio 43210

1976

Ralph W. Lefler  
 Department of Physics  
 Purdue University  
 West Lafayette, Indiana 47901

1976

MEMBERSHIP COMMITTEE

Michael L. Agin, Chairman  
 Office of Teacher Education  
 Michigan Technological University  
 Houghton, Michigan 49931

1976

Joseph Riley  
 College of Education  
 University of Delaware  
 Newark, Delaware 19711

1976

John P. Smith  
 College of Education, DQ 12  
 University of Washington  
 Seattle, Washington 98105

1976

Thomas G. Teates  
 College of Education  
 Virginia Polytechnic Institute and State University  
 Blacksburg, Virginia 24061

1976

MEMBERSHIP COMMITTEE CON'TTerm Expires

Jerrold William Maben 33 Midbrook Lane Old Greenwich, Connecticut 06870	1976
---	------

FEDERALLY SUPPORTED RESEARCH STUDY COMMITTEE

Fletcher Watson, Chairman Longfellow Hall Harvard University Cambridge, Massachusetts 65201	1976
--	------

Willard J. Jacobson Department of Education Teachers College, Columbia University New York, New York 10027	1976
---	------

J. Myron Atkin Education Building University of Illinois Urbana, Illinois 61803	1976
--	------

Ertle Thompson Science Education University of Virginia Charlottesville, Virginia 22901	1976
--	------

John W. Renner College of Education University of Oklahoma Norman, Oklahoma 73069	1976
--	------

Wayne W. Welch College of Education University of Minnesota Minneapolis, Minnesota 55455	1976
---	------

Robert E. Yager, Ex Officio Science Education Center University of Iowa Iowa City, Iowa 52242	1976
--	------

PLACEMENT SERVICESTerm Expires

Alan M. Voelker, Chairman  
 College of Education  
 Northern Illinois University  
 DeKalb, Illinois 60115

1978

Marvin Druger  
 800 Biological Research Laboratories  
 Syracuse University  
 Syracuse, New York 13210

1976

Eugene D. Gennaro  
 370 Peik Hall  
 University of Minnesota  
 Minneapolis, Minnesota 55455

1986

William R. Capie  
 Department of Science Education  
 University of Georgia  
 Athens, Georgia 30601

1976

Marvin F. Wideen  
 Faculty of Education  
 Simon Fraser University, Burnaby 2,  
 British Columbia, Canada

1976

Thaddeus W. Fowler  
 Curriculum and Instruction Department  
 College of Education  
 University of Cincinnati  
 Cincinnati, Ohio 45221

1976

SPECIAL APPOINTEESREPRESENTATIVE TO AAASTerm Expires

Robert E. Collagan, Section X  
 Department of Education  
 Morgan State College  
 Baltimore, Maryland 21212

1976

Edward L. Pizzini, Section Q  
 Science Education Center  
 University of Iowa  
 Iowa City, Iowa 52242

1977

REPRESENTATIVE TO ICASE

Carleton W. Knight  
 Department of Education  
 University of Delaware  
 Newark, Delaware 19711

1976

J. David Lockard  
 Science Teaching Center  
 University of Maryland  
 College Park, Maryland 20742

1976

REPRESENTATIVE TO NSTA

James F. Rutherford  
 Department of Science Education  
 New York University  
 New York, New York 10003

1976

NEWSLETTER EDITOR

H. Seymour Fowler  
 Division of Curriculum and Instruction  
 The Pennsylvania State University  
 University Park, Pennsylvania 16802

1976

CONVENTION EVALUATOR

Betsy A. Balzano  
 Department of Curriculum and Instruction  
 State University of New York  
 Brockport, New York 14420

1976

ERIC/SMEAC LIAISONTerm Expires

Robert W. Howe  
 Science and Mathematics Education  
 Ohio State University  
 Columbus, Ohio 43210

1977

EDITORIAL BOARD FOR "INVESTIGATIONS IN SCIENCE  
 EDUCATION IN COOPERATION WITH ERIC/SMEAC"

Joseph D. Novak  
 Stone Hall  
 Cornell University  
 Ithaca, New York 14850

1976

Vincent N. Lunetta  
 Science Education Center  
 University of Iowa  
 Iowa City, Iowa 52242

1976

Robert G. Bridgham  
 Michigan State University  
 East Lansing, Michigan 48823

1977

Kenneth Jacknicke  
 University of Alberta  
 Calgary, Alberta, Canada

1978

JOURNAL OF RESEARCH IN SCIENCE TEACHING

David P. Butts, Editor  
 Department of Science Education  
 University of Georgia  
 Athens, Georgia 30601

1979

EDITORIAL ADVISORY BOARD

William Zeitler, Associate Editor  
The University of Georgia  
Department of Science Education  
Athens, Georgia 30602

Glen S. Aikenhead  
College of Education  
University of Saskatchewan  
Saskatoon, Canada

J.W. George Ivany,  
Faculty of Education  
Memorial University of Newfoundland  
St. John's, Newfoundland, Canada

Robert G. Bridgham  
Office of Medical Education  
Research & Development, A 209 East Fee Hall  
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East Lansing, Michigan 48824

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University of Wisconsin  
Madison, Wisconsin 53706

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Buffalo, New York 14214

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Urbana, Illinois 61801

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University of Florida  
Gainesville, Florida 32611

Ann Howe  
Syracuse University  
101 Heroy Geology Building  
Syracuse, New York 13210

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2575 Palisade Avenue  
Bronx, New York 10463

Gene E. Hall  
Education Annex  
The University of Texas at Austin  
Austin, Texas 78712

John J. Koran, Jr.  
University of Florida  
College of Education, Norman Hall 353  
Gainesville, Florida 32611

Leopold E. Klopfer  
University of Pittsburgh  
Learning R & D Center  
Pittsburgh, Pennsylvania 15260

James R. Okey  
School of Education  
Indiana University  
Bloomington, Indiana 47401

Rita W. Peterson  
Department of Teacher Education  
California State University  
Hayward, California 94542

Robert E. Yager  
Science Education Center  
University of Iowa  
Iowa City, Iowa 52242

Wayne W. Welch  
University of Minnesota  
204 Burton Hall  
College of Education  
Minneapolis, Minnesota 55455

Roland Bartholomew  
Science Education Center  
The University of Texas at Austin  
Austin, Texas 78712

Duties of NARST Committees and Special Appointees

POLICY ADVISORY COMMITTEE

- 1) Recommend new directions, activities, and functions for the organization. Identify new missions and new programs that the Executive Board might consider.
- 2) Review standing policies and procedures of the organization. Identify traditions and policies that the Board might consider altering.
- 3) Continue preparation for establishing a permanent Executive Secretary. Recommend guidelines to govern our moves in this direction.
- 4) Review minutes of last meeting of Board for other policies or specific points referred to the committee.

FINANCIAL ADVISORY COMMITTEE

- 1) Review proposed budget for 1977. Suggest changes and the rationale for them. Identify options for the Board.
- 2) Review policies regarding financing annual meeting. Determine if the meeting is self-supporting and the plans of the Program Committee are sound as to finances. Recommend changes, if any, in financing of the annual meeting.
- 3) Review finances connected with all publications including JRST, the newsletter, and any special publications. Identify the trends, the problems, the issues, and proposed solutions. The options open to the Board should be clearly described.
- 4) Review arrangements concerning audit. Determine if a three year audit is adequate, if the process is accomplished and if changes are needed.
- 5) Continue preparation of financial plans for establishing a permanent central office with a part-time Executive Secretary. Identify the financial implications of the various alternatives.

PUBLICATIONS ADVISORY COMMITTEE

- 1) Review formal policy regarding all NARST publications. Make recommendations to the Board on any changes needed in these policies.
- 2) Review directions and policies with editor of each publication. Identify problems and issues related to editors and/or their respective boards and advisory committees. Make policy suggestions which the Board should consider for adoption.
- 3) Suggest changes in publication practice and means by which publications be improved. Identify new publication ventures the Board might consider.

### PROGRAM COMMITTEE

- 1) Establish themes and format for annual meeting.
- 2) Coordinate work with the Secretary-Treasurer to insure that all arrangements with the hotel and distribution of information to the membership are taken care of.
- 3) Organize procedures for evaluation of contributed papers. Determine criteria for paper evaluation and a time schedule.
- 4) Establish format for printed program, its distribution, and the printed collection of abstracts.
- 5) Plan for involvement and use of local members for registration, obtaining equipment and other purposes as needed.

### RESEARCH COMMITTEE

- 1) Prepare yearly research review.
- 2) Work with the ERIC/SMEAC CENTER. Recommend formal policies regarding NARST and its relationship to the Center.
- 3) Recommend needed research in science education and recommend a means of communicating this information.
- 4) Prepare recommendations for the Board on research symposia and training programs.
- 5) Organize and conduct such research symposia and training programs as are approved by the Board.

### ELECTION COMMITTEE

- 1) Establish slate of officers for report to the Board. The slate for 1976 should consist of two candidates for president-elect and four candidates for members of the Executive Board. These should be published in the Newsletter in time for the membership to propose additional nominees by petition if they so desire.
- 2) Collect biographical information to accompany the ballots. Assist with actual distribution of ballots to members.
- 3) Tabulate election results.
- 4) Notify all candidates of the election results one month prior to the annual meeting.
- 5) Announce election results at spring meeting of the Executive Board and at a report session for the entire membership at the Annual Meeting.

### JRST AWARD COMMITTEE

- 1) Publicize the program to all members via the Newsletter, announcement in JRST, and/or other means.
- 2) Review criteria for making the annual selection. Recommend changes in criteria and selection policy to the Executive Board.
- 3) Establish working plan for selecting the awardee.
- 4) Notify President and Secretary of the final selection. Assist with preparation of certificate, check, and award arrangements at the annual luncheon.

### PATRON AWARD COMMITTEE

- 1) Publicize program to assure all members are aware of it.
- 2) Review criteria for making the selection and recommend changes to the Executive Board.
- 3) Establish mechanisms for working with committee in selecting the awardee for the year.
- 4) Notify President and Secretary of the awardee in time for suitable certificate and check to be prepared.
- 5) Assist with award program at the luncheon.
- 6) Make recommendations regarding the research topic for the next year. Be prepared to discuss this and publicize it at the Annual Meeting as a part of the ceremony at the Annual Meeting.

### PATRONS ACTIVITIES COMMITTEE

- 1) Develop guidelines for categories of Patrons. Recommend policies to the Executive Board regarding such guidelines (categories based on level of individual contribution, corporations, agencies and organizations).
- 2) Establish a plan for attracting patrons for the current year. Outline such a plan for approval and reaction by the Executive Board.
- 3) Proceed with implementing the plan.
- 4) Plan for special letters of appreciation, listing of names in annual program, recognition at the Annual Meeting and other kinds of recognition.
- 5) Develop long range plans for patron drive, special programs patrons may support, and ways of honoring patrons.

### MEMBERSHIP COMMITTEE

- 1) Prepare copy for a national membership brochure. Seek approval of the content, format, and cost for such a brochure.
- 2) Organize a yearly campaign plan for attracting new members. Seek approval from the Executive Board for implementing such a plan.
- 3) Organize membership drives at our Annual Meeting and as a part of other science education conventions and meetings.
- 4) Consider the establishment of membership contacts in each state and/or at each major University with graduate programs in science education. Recommend advantage and disadvantage of such a formal membership network.

### FEDERALLY SUPPORTED RESEARCH STUDY COMMITTEE

- 1) Establish contact with representative of NIE, NSF, and other federal agencies with an interest in research in science education.
- 2) Develop guidelines for funding projects in science education. This is aimed at encouraging support for research that NARST and its members view as significant.
- 3) Establish status as an advisory panel for such funding agencies.
- 4) Inform NARST members via Newsletter of Committee information.
- 5) Recommend policies, guidelines, and special projects regarding federal support of research in science education to the Executive Board.

### PLACEMENT COMMITTEE

- 1) Establish process for listing staff vacancies and characteristics of NARST members seeking employment.
- 2) Advise Placement Coordinator on the operation of the Placement program.
- 3) Publicize existence and recommended use of Placement Reports.
- 4) Arrange for suitable space on Annual Meeting program and at Annual Meeting for Placement functions.
- 5) Recommend changes in policies regarding Placement services to Executive Board.

REPRESENTATIVES TO OTHER ORGANIZATIONS

- 1) Represent NARST at Meetings.
- 2) Recommend projects that have mutual interest between NARST and other organizations.
- 3) Prepare official reports concerning Board meetings, committee meetings, and other places where NARST is represented for the Executive Board.

CONVENTION EVALUATOR

- 1) Plan an evaluation of all convention activities in consultation with the Convention Program Chairman.
- 2) Obtain the necessary assistance from selected association members to conduct the evaluation.
- 3) Administer the evaluation.
- 4) Report the results of the evaluation to the Program Committee and the Executive Board.

EDITORS (JRST, Newsletter, Investigations, and Other Special Publications)

- 1) Execute policies recommended by the Publication Advisory Committee and approved by the Executive Board.
- 2) Establish guidelines and working relationship with advisory committee and editorial boards concerned with a given publication.
- 3) Work with printer concerning actual printing and distribution of the publication.
- 4) Recommend changes to the Publication Advisory Committee and/or the Executive Board.

EDITORIAL BOARDS

- 1) Assist with forming and executing policy with respect to a given publication (within guidelines approved by the Executive Board).
- 2) Support the Editor in his work.
- 3) Advise editors, Publication Advisory Committee, and the Executive Board concerning policies and problems. Suggest possible changes that will result in improvements.

R.

PROPOSED AGENDA FOR NOVEMBER 1975 BOARD MEETING

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\*to be distributed at the meeting.

REPORT OF THE POLICY COMMITTEE

The following items were referred to the 1975-76 Policy Committee by the 1974-75 Board, the President, and/or the By-Laws:

- 1) By-Law change to implement Board's desire to eliminate Associate Membership category.
- 2) Possibility of establishing Sustaining Membership category.
- 3) Organization designated to receive assets if organization were to dissolve.
- 4) Relationship and representation of affiliated organizations and governing boards.
- 5) Determination of chairmen of Standing Committees not specified in the By-Laws.
- 6) General review of current By-Laws.

After meeting in Los Angeles and exchanges of several letters, the following actions are unanimously recommended to the Executive Board:

- 1) that the By-Laws be changed as reflected on the attached ballot to eliminate the Associate Membership category.
- 2) that a Sustaining Membership category be established with dues double the rate for regular members.
- 3) that the organization to which assets are to be transferred upon dissolution be designated as an affiliated organization to be specified by the Executive Board.
- 4) that the By-Laws be changed to permit ex-officio representation of the president (or his designee) of affiliated organizations on the Executive Board.

Policy Committee Report Con't.  
Page 2

- 5) that the current policy of presidents naming chairmen of two Standing Committees (those not otherwise specified in the By-Laws) be continued. As resources are available the committee favors the possibility of these two committees electing their own chairmen. (If a non-elected Board member were so elected, such a chairman would be an additional ex-officio member of the Executive Board.)
- 6) that editorial changes be made in the By-Laws to designate chairpersons instead of chairmen.
- 7) that the By-Laws be changed as reflected on the attached ballot. (Upon approval of the Executive Board, these proposed changes should be included on the ballot for new officers in order to secure approval of the membership for said changes.)

Respectfully submitted,

Robert E. Yager, Chairman  
Rita Peterson  
Charles Granger  
O. Roger Anderson

NARST Number Ballot

Please indicate your vote on the By-Law Changes as attached and forward your ballot to the Executive Secretary.

<u>Change Number</u>	<u>Approve</u>	<u>Disapprove</u>
1. Eliminate Associate Membership	_____	_____
2. Add Sustaining Membership	_____	_____
3. Change in Dues	_____	_____
4. Loss of Membership	_____	_____
5. Ex-officio Representation	_____	_____
6. Mid-Year Executive Meeting	_____	_____
7. Affiliation	_____	_____
8. Dissolution/Transfer of Funds	_____	_____
9. Editorial change of "chairmen" to "chairpersons"	_____	_____

# NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

Affiliated with the American Association for the Advancement of Science

President  
**DR. RONALD D. ANDERSON**  
 University of Colorado  
 School of Education  
 Boulder, Colorado 80303

President Elect  
**DR. O. ROGER ANDERSON**  
 Department of Science Education  
 Teachers College, Columbia University  
 New York, New York 10027

Secretary-Treasurer  
**DR. PAUL E. BELL**  
 Div. of Academic Curriculum & Instruction  
 The Pennsylvania State University  
 179 Chambers Building  
 University Park, Pennsylvania 16802

Immediate Past President  
**DR. ROBERT E. YAGER**  
 Science Education Center  
 University of Iowa  
 Iowa City, Iowa 52242

BOARD MEMBERS:  
**DR. BETSY ANN BALZANO (1977)**  
 Dept. of Curriculum & Instruction  
 State University College Brockport  
 Brockport, New York 14420

**DR. GLENN D. BERKHEIMER (1978)**  
 Michigan State University  
 E-37 McDonnell Hall  
 East Lansing, Michigan 48824

**DR. MARVIN DRUGER (1976)**  
 Biology and Science Education  
 800 Biological Research Laboratories  
 Syracuse, New York 13210

**DR. JAMES GALLAGHER (1978)**  
 22527 Mission Drive  
 Richton Park, Illinois 60471

**DR. JAMES R. OKEY (1977)**  
 Science Education Center  
 School of Education  
 Indiana University  
 Bloomington, Indiana 47401

**DR. RICHARD SAGNESS (1976)**  
 Coordinator of Science Education  
 University of South Dakota  
 Vermillion, South Dakota 57069

Coordinator of Research  
**DR. STANLEY HELGESON**  
 Faculty of Science Education  
 Ohio State University  
 Columbus, Ohio 43210

Editor, JRSI  
**DAVID BUTTS**  
 Dept. of Science Education  
 The University of Georgia  
 Athens, Georgia 30602

Coordinator of Placement  
**DR. MARVIN DRUGER**  
 800 Biological Research Laboratories  
 Syracuse University  
 Syracuse, New York 13210

Coordinator of Newsletter  
**DR. H. SEYMOUR FOWLER**  
 Science Education Faculty  
 The Pennsylvania State University  
 150 Chambers Building  
 University Park, Pennsylvania 16802

TO: Ronald D. Anderson and Members of the Executive Board

FROM: NSTA Financial Advisory Committee

SUBJECT: Financial Policy Considerations

DATE: October 15, 1975

Although NARST is operating in a much more business like manner than it has in several years, increased costs due to inflation has cut into the budget. There are several areas that need attention.

## 1. The Financial Status of the NARST Journal

It appears that John Wiley and Sons, Inc. is about to suggest that we renegotiate our contract with them for the publication of the Journal. Currently we are paying \$11.00 for the 440 pages per year. In a letter of 30 September 1975, David Butts indicated that Wiley is informally making the following proposal to us.

### Proposal

Increase Journal to 600 pages per year, six issues published bi-monthly

*Sept. 1975*

(552)	member rate	\$15.00	(increase \$4.00)
(1349)	non-member rate	\$30.00	(increase \$6.00)

Because of the continuous flow of quality manuscripts to the Journal, there is presently a 1½ year time lag between submission of an article and publication. Then too a bi-monthly journal sells better than a quarterly journal. The committee recommends that we accept the above proposal.

Ronald D. Anderson and  
Members of the Executive Board  
Page 2  
October 15, 1975

## 2. The Redesign of the NARST Dues Structure

Because of the increasing cost of paper, printing and postage, the cost of the Journal is expected to increase in the foreseeable future. The present situation weakens the organization because funds which should be allocated to other functions end up being spent on the Journal. We recommend, therefore, that we redesign our NARST dues structure to permit the amount designated for the Journal to "float" depending on economic circumstances. The amount of our annual dues statement for association activities should remain under the governance of the membership, but the specific amount for the Journal should change without going to the membership for approval. In this way, the increased cost of the Journal would not weaken the other functions of the organization. Under the new plan all NARST members would receive the Journal as they do presently.

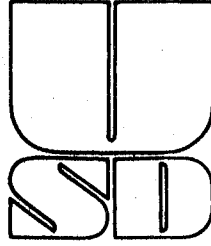
## 3. Decreasing Expenses

One way to decrease NARST expenses is to find an institution to house the Secretary-Treasurer Office that would supply free services such as secretarial, computer, and staff time. We understand that the ad hoc committee has obtained one such offer. We recommend that the Board make a decision concerning the present offer or offers.

## 4. Increasing Income

Without deviating from the original objectives of the NARST Annual Meeting, this meeting could be designed to increase our income. For example, this meeting could contain some paid workshops that offer post graduate credit on topics directly related to research in science teaching. The Board should consider this and other possibilities.

The Board should also explore ways in which the NARST Journal could be sold to more libraries and to non-members.



INTRA-UNIVERSITY MEMO

DATE October 20, 1975  
 TO NARST Executive Board  
 FROM Richard L. Sagness, *Chairman*, NARST Publications Committee  
 SUBJECT Publications Advisory Committee Report

- A. Committee Charges  
 As Specified in by-laws
- B. Committee members have been involved in all decisions through written correspondence and voting on issues was conducted where warranted.

C. Recommendations

1. Newsletter

- a. that financial support for maintaining a compiler and person-in-charge of preparing copy be provided.
- b. the following are based on per copy costs:

Typing & Layout: 25 - 30 hours @ \$3.25		\$ 81.25 -	\$ 97.50	
Postage	<i>\$95.00</i>	\$ 192.00 -	\$ 240.00	
Folding, Stuffing, Stamping: 10 hours @ \$1.20		\$ 16.00 -	\$ 16.00	
Total:		\$ 289.25 -	\$ <b>3</b> 53.50	
Yearly total:		\$1157.00 -	\$ 1414.00	

*annual*  
*365-555*

2. Journal of Research in Science Teaching

- a. that the following individuals be approved for addition to or continuation on the JRST Editorial Advisory Board:
1. Darrel Phillips, University of Iowa
  2. Mary Budd Rowe, University of Florida
  3. ~~Ronald~~ Roland Simpson, North Carolina State University
  4. Art White, The Ohio State University
- b. that the following individuals who are retiring from the Editorial Advisory Board be written letters of appreciation:
1. Leo Klopfer
  2. Milton Pella
  3. Peter Shoresman

*who writes them?*

- c. that the following changes be approved (supporting information from Dave Butts attached):
  - 1. that the JRST be increased to 600 pages in length
  - 2. that the JRST be increased to 6 issues per year
  - 3. that the cost of JRST to NARST members be increased to \$15.00 (increase of \$4.00)
  - 4. that the cost of JRST to non-members be increased to \$30.00 (increase of \$6.00)
- d. David Butts will be submitting a separate report on the operation of JRST

D. Summary of Other Actions

- 1. Requests for permission to reprint articles from JRST and the responses are a part of the Publication Advisory Committee Chairman's records.
- 2. No other requests have been received or action undertaken.

Review our policy →

# JOURNAL OF RESEARCH IN SCIENCE TEACHING

DAVID BUTTS, Editor

Department of Science Education  
The University of Georgia  
Athens Georgia 30602

Telephone No. (404) 542-1763

September 30, 1975

Dr. Richard L. Sagness  
Coordinator of Science Education  
University of South Dakota  
Vermillion, South Dakota 57069

Dear Dick:

In recent conversations with Mr. Alan Wittman of Wiley, we have been reviewing the current financial status of the Journal. As we have expected, the inflation that we all have been experiencing has not missed the Journal.

Informally, Wiley is considering making this proposal to us. It would be most helpful if your committee could be able to present your recommendations regarding the proposals to the NARST Board in November.

Proposal

Increase Journal to 600 pages per year, six issues published bi-monthly

- (552) member rate \$15.00 (increase \$4.00)
- (1349) non-member rate \$30.00 (increase 6.00)

Based on our continuing flow of quality mms to the Journal and our present membership, I really believe that the proposal is a desirable option. As one important consideration of this proposal, I also think that we should redesign our NARST dues structure to permit the amount designated for the Journal to "float" depending on economic and other changing circumstances. In this way, the amount of our annual dues statement for association activities could remain under the governance of the membership. But the specific amount for the Journal could change without our needing to go to the membership for approval.

Dr. Richard Sagnese  
Page two  
September 30, 1975

Thank you for your study of this matter. If I can provide any further assistance, please let me know.

Very sincerely,

David P. Butler, Editor  
Journal of Research in Science Teaching

dlb/d

cc: Dr. P.M. Anderson

35.

# JOURNAL OF RESEARCH IN SCIENCE TEACHING

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DAVID BUTTS, Editor

*Department of Science Education  
The University of Georgia  
Athens, Georgia 30602*

*Telephone No. (404) 542-1763*

September 29, 1975

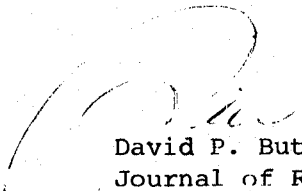
Dr. Ronald D. Anderson  
President  
National Association of Research in Science Teaching  
University of Colorado  
School of Education  
Boulder, Colorado 80303

Dear Ron:

Thank you for your recent letter of September 4. Enclosed is the report from JRST.

If I can be of further assistance, please let me know.

Very sincerely,



David P. Butts, Editor  
Journal of Research in Science Teaching

DPB/sd

Encl:

REPORT OF EDITOR, JOURNAL OF RESEARCH IN SCIENCE TEACHING

Editor: David Butts  
 Department of Science Education  
 The University of Georgia  
 Athens, Georgia 30602

Members: Editorial Advisory Board

William Zeitler, Associate Editor  
 The University of Georgia  
 Department of Science Education  
 Athens, Georgia 30602

Richard Hansen, Book Review Editor  
 2575 Palisade Avenue  
 Bronx, New York 10463

Glen S. Aikenhead  
 College of Education  
 University of Saskatchewan  
 Saskatoon, Canada

Gene E. Hall  
 Education Annex  
 The University of Texas at Austin  
 Austin, Texas 78712

J. W. George Ivany  
 Dean of Education  
 Faculty of Education  
 Memorial University of Newfoundland  
 St. John's, Newfoundland, Canada

John J. Koran, Jr.  
 University of Florida  
 Norman Hall, 353  
 College of Education  
 Gainesville, Florida 32611

Robert G. Bridgham  
 Office of Medical Education  
 Research & Development  
 A 209 East Fee Hall  
 Michigan State University  
 East Lansing, Michigan 48824

Leopold E. Klopfer  
 University of Pittsburgh  
 Learning R & D Center  
 Pittsburgh, Pennsylvania 15260

Milton O. Pella  
 University of Wisconsin  
 Madison, Wisconsin 53706

James R. Okey  
 School of Education  
 Indiana University  
 Bloomington, Indiana 47401

Ronald J. Raven  
 State University of New York  
 at Buffalo  
 122 Foster Hall  
 Buffalo, New York 14214

Rita W. Peterson  
 Department of Teacher Education  
 California State University  
 Hayward, California 94542

Peter B. Shoresman  
 307 Education Building  
 University of Illinois  
 Urbana, Illinois 61801

Dr. Robert E. Yager  
 Science Education Center  
 University of Iowa  
 Iowa City, Iowa 52242

Mary Budd Rowe  
College of Education  
421 S.W. 32nd. Street  
University of Florida  
Gainesville, Florida 32611

Wayne W. Welch  
University of Minnesota  
204 Burton Hall  
College of Education  
Minneapolis, Minnesota 55455

Ann Howe  
Syracuse University  
101 Heroy Geology Building  
Syracuse, New York 13210

Roland Bartholomew  
Science Education Center  
The University of Texas at Austin  
Austin, Texas 78712

Area of Concern and Presidential Charge:

1. Executive policies recommended by the Publication Advisory Committee and approved by the Executive Board.
2. Establish guidelines and working relationships with Advisory Board.
3. Work with Wiley concerning actual printing and distribution of the publications.
4. Recommend changes to the Publication Advisory Committee and/or the Executive Board.

Activities and Recommendations:

1. Based on the approval of the Publications Advisory Committee, the following persons' are to be appointed to the Editorial Advisory Board for four year terms.

Darrell Phillips, University of Iowa (1976-80)  
 Mary Budd Rowe, University of Florida (reappointment for 1976-80)  
 Ronald Simpson, North Carolina State University (1976-80)  
 Arthur White, The Ohio State University (1976-80)

2. The following members of the Editorial Advisory Board are scheduled to complete their terms effective December 31, 1975.

Leo Klopfer  
 Milton Pella  
 Peter Shoresman

Letters of appreciation from the president NARST should be forwarded to them.

3. Working Relationship with Wiley.

Our work with Wiley continues to be smooth. Two issues of Volume 12 are in the hands of our readers, issue 3 is now being mailed and issue 4 is composed.

In our recent conversations with Wiley, they believe that a change in size, publication schedule and price will enable them to successfully launch a drive to substantially increase the non-number subscriptions to JRST.

<u>Present</u>	<u>Proposed</u>
445 pages/year	600 pages/year
4 issues	6 issues bi-monthly
\$11.00 NARST member	\$15.00 NARST member
24.00 Non-NARST	30.00 Non-NARST

This proposed change has been studied by the Publication Advisory Committee and the Finance Committee for their recommendation.

4. Current Editorial Activity.

	8/74 to 2/75 <i>Los Angeles</i>	2/75 to 10/75
A. Manuscripts transfered from Professor Anderson: 75		
B. New manuscripts recieved	69	64
C. Number of "Manuscripts-Reviews"	292	142
D. Mms returned for revision as research papers (number revised & accepted)	69 (25)	9 4
E. Mms returned for revision as Research Reports. (number revised & accepted)	35 ( 7)	21 (10)
F. Mms rejected	10	17
G. Mms to Wiley	31	28

5. Recommendation

- a. We believe it appropriate for the Board to direct the president to send a letter of appreciation to each member of the Editorial Advisory Board (and their Dean or President) thanking them for their splendid contribution to the Journal during the past year; to send a letter in appreciation to the three retiring members and their appropriate Dean or President; to send a letter of appointment to the four incoming Board members and their Dean or President as may be appropriate.
- b. We recommend positive action on the proposed change in JRST size, publication schedule and price.



WILEY-INTERSCIENCE A DIVISION OF  
JOHN WILEY & SONS, INC., PUBLISHERS  
605 THIRD AVENUE, NEW YORK, N.Y. 10016 (212) 867-9800 CABLE: JONWILE

30 September 1975

Dr. Ronald M. Anderson  
School of Education  
University of Colorado  
Boulder, Colorado 80302

Dear Dr. Anderson:

This is simply to confirm our conversation in regard to JOURNAL OF RESEARCH IN SCIENCE TEACHING. After speaking with David Butts about the possibility of increasing the frequency from quarterly to bimonthly, I have made arrangements to convert the Journal to this basis for 1976, with an annual allotment of 600 pages. This represents an increase of approximately 33 percent over the present level and, of course, a 50% increase in frequency.

It is my belief that such an increase will make the Journal more attractive for a number of reasons, and will enable me to promote it more successfully to non-member subscribers. At the same time, as Dr. Butts and his colleagues point out, it should reduce the time lag between submission of papers and publication date, thereby pleasing both the authors and subscribers.

I do appreciate your cooperation in going along with this change in plan. It is understood that there is no commitment involved as far as the subscription cost for members. However, as I pointed out, increased costs for postage, paper, composition and labor would have compelled us to ask you for an increase to \$13.00 for next year even without increasing the size of the Journal. What we are now proposing therefore is that your Board consider on its agenda our request for a member subscription price of \$15.00 (15% above the \$13.00 level) for which they will receive a journal fully one-third larger than before.

This increase, as you pointed out, does not cover our increased expense; but the short fall represents our gamble on the possibility of greater circulation. I do hope the Association will consider our needs during its November meeting, and will authorize the inclusion of a \$15.00 fee for the 1976 volume of JOURNAL OF RESEARCH IN SCIENCE TEACHING.

Thanks once again for your cooperation.

Cordially,

*Allan Wittman*

Allan Wittman  
Manager  
Wiley Interscience Journals

AW/vm

BIOPOLYMERS - An International Journal of Research  
on Biological Molecules

Volume 15 - Monthly

Subscription: \$175.00 Foreign Postage: \$14.00

BIOTECHNOLOGY AND BIOENGINEERING

Volume 18 - Monthly + Symposium

Subscription: \$100.00 Foreign Postage: \$12.00

COLOR RESEARCH AND APPLICATION

Volume 1 - Quarterly

Subscription: \$35.00 Foreign Postage: \$4.00

COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS

Volume 29 - Bi-monthly

Subscription: \$60.00 Foreign Postage: \$9.00

DEVELOPMENTAL PSYCHOBIOLOGY - An International  
Journal

Volume 9 - Bi-monthly

Subscription: \$35.00 Foreign Postage: \$7.00

INTERNATIONAL JOURNAL OF CHEMICAL KINETICS

Volume 8 - Bi-monthly

Subscription: \$100.00 Foreign Postage: \$9.00

INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY

Volume 10 - Bi-monthly + Symposia

Subscription: \$185.00 Foreign Postage: \$13.00

JOURNAL OF APPLIED POLYMER SCIENCE

Volume 20 - Monthly + Symposia

Subscription: \$210.00 Foreign Postage: \$18.00

JOURNAL OF BIOMEDICAL MATERIALS RESEARCH

Volume 10 - Bi-monthly, including Symposium

Subscription: \$80.00 Foreign Postage: \$8.00

JOURNAL OF NEUROBIOLOGY - An International Journal

Volume 7 - Bi-monthly

Subscription: \$48.00 Foreign Postage: \$6.00

JOURNAL OF POLYMER SCIENCE

Volume 14

Monthly: Polymer Chemistry Edition

Polymer Physics Edition

Polymer Letters Edition

Irregularly: Polymer Symposia

Macromolecular Reviews

Subscription: \$425.00 Foreign Postage: \$34.00

JOURNAL OF RESEARCH IN SCIENCE TEACHING

Volume 13 - Bi-monthly

Subscription: \$30.00 Foreign Postage: \$6.00

THE JOURNAL OF THE AMERICAN ACADEMY OF  
PSYCHOANALYSIS

Volume 4 - Quarterly

Subscription: \$25.00 Foreign Postage: \$6.00

NETWORKS - An International Journal

Volume 6 - Quarterly

Subscription: \$40.00 Foreign Postage: \$6.00

SCIENCE EDUCATION

Volume 60 - Quarterly + ERIC Bibliography

Subscription: \$25.00 Foreign Postage: \$6.00

TRANSACTIONS OF THE SOCIETY OF RHEOLOGY

Volume 20 - Quarterly

Subscription: \$50.00 Foreign Postage: \$6.00

THE CIVIL LIBERTIES REVIEW\*

Volume 3 - Quarterly

Subscription: \$15.00 Foreign Postage: \$3.00

SUBSCRIPTIONS ENTERED BY CALENDAR YEAR: JANUARY-DECEMBER.

BACK VOLUMES AVAILABLE IN PAPER, MICROFILM, AND MICROFICHE. PRICES UPON REQUEST.

\*PLEASE SEND SEPARATE REMITTANCE AND ORDER FOR THIS TITLE.

JOHN WILEY & SONS, INC., PUBLISHERS, NEW YORK, LONDON & SYDNEY  
605 THIRD AVENUE, NEW YORK, N. Y. 10016 212 TN 7-9800 CABLE ADDRESS: JONWILE

October 14, 1975

Allan Wittman, Manager  
Wiley Interscience Journals  
605 Third Avenue  
New York, NY 10016

Dear Mr. Wittman:

This letter is a follow-up to our telephone conversation of a week ago and a response to your letter of September 30, 1975. Your desire to improve the Journal of Research in Science Teaching through expanding it to 600 pages is appreciated. It seems important, however, to confirm in writing a few of the circumstances under which this came about and the situation now faced by our association as its Executive Board meets in November to make financial decisions.

My understanding is in September you advertised the Journal of Research in Science Teaching as being a bimonthly publication in the publicity you sent to library subscribers. It was necessary for you to get this information out at that time in view of the procedures followed by libraries in entering calendar year subscriptions. This decision was made after receiving information from Dr. David Butts indicating that he and members of our association's Publications Advisory Board would like to see the Journal expanded to six issues per year if the appropriate arrangements could be made. As I indicated in our telephone conversation, a decision of this nature has an obvious impact on the dues which our members must pay. Such financial decisions require the approval of our Executive Board at a minimum and in the event of a dues increase, require a vote of our membership. As a result, there is no way that the Publications Board, the editor, or the president of the association can commit the association to the expansion at this point.

The above circumstances are the reasons for my concern about the actions which had been taken. Because of your willingness, however, to take the financial risks of your publishing the Journal with 600 pages during 1976 at your financial risk prior to our Executive Board's consideration of its financial obligations, and the lead time required for producing the Journal in 1976, I chose not to attempt to hold you to producing only four issues during 1976. I do want to point out again, however, the

Allan Wittman  
Page 2

October 14, 1975

significant financial implications that a decision of this nature has for an organization of our size and budget. I'm sure that our Executive Board will attempt to deal as fairly as possible with the financial questions we now face but I did want you to realize that we had a substantial dues increase less than a year ago and the inflation problems that we face have resulted in a difficult situation for us. The increased cost of a journal of four issues is a substantial problem for us and the costs of producing an expanded journal are even more difficult.

I appreciate the understanding you have shown of the problems we face. I will be in touch with you in the future if there is more information that we need prior to our November Board Meeting.

Sincerely,

Ronald D. Anderson  
President

RDA/ch

43.

*Feb - NARST fall  
Board meeting*

# JOURNAL OF RESEARCH IN SCIENCE TEACHING

---

DAVID BUTTS, Editor

Department of Science Education  
The University of Georgia  
Athens, Georgia 30602

Telephone No. (404) 542-1763

*Dave will  
include this item  
in his  
report to the board  
in November*

August 12, 1975

Dr. Ronald Anderson  
National Association For Research  
In Science Teaching  
University of Colorado  
School of Education  
Boulder, Colorado 80303

Dear Ron:

As per my letter of May 6 from Bob Yager and your letter of May 23, I have proceeded to discuss with Wiley the possibility of the listing of the NARST officers on the inside cover of the Journal Of Research in Science Teaching. In discussing this with Allan, I believe that such a policy would be quite contrary to acceptable procedure for scholarly publications. For this reason I would not recommend that we modify the manuscript in such a way. Allan's specific reply and examples of Journals which Wiley publishes relative to this is enclosed with this letter.

Unless I hear from you I will assume that we will not consider further modification of the cover of the Journal.

With my very best wishes.

Sincerely,

*David P. Butts*

David P. Butts, Editor

Journal Of Research In Science Teaching

DPB/sd

cc: Bob Yager  
Roger Anderson  
Paul Bell

Enclosure



WILEY-INTERSCIENCE A DIVISION OF  
JOHN WILEY & SONS, INC., PUBLISHERS  
605 THIRD AVENUE, NEW YORK, N. Y. 10016 (212) 867-9800 CABLE: JONWILE

30 June 1975

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

Dear David:

In regard to the question you raised concerning the listing of NARST officers in the JOURNAL OF RESEARCH IN SCIENCE TEACHING, I have checked and found that the practice would be contrary to custom. Were this a newsletter, being issued directly from the Association, and containing nothing but information about the activities of the Association, a list of the officers would be appropriate. But JRST is a scholarly publication, and its masthead should really include only those directly concerned with editing and publishing the journal.

As examples, I send you herewith photocopies of the five journals we publish in concert with other organizations:

THE JOURNAL OF THE AMERICAN ACADEMY OF  
PSYCHOANALYSIS

THE CIVIL LIBERTIES REVIEW  
(with the American Civil Liberties Union)

COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS  
(by the Courant Institute of Mathematical Sciences)

TRANSACTIONS OF THE SOCIETY OF RHEOLOGY

JOURNAL OF BIOMEDICAL MATERIALS RESEARCH  
(for the Society of Biomaterials).

As you can see, in no case are any names included other than those

45.  
WILEY-INTERSCIENCE, A DIVISION OF  
JOHN WILEY & SONS, INC., PUBLISHERS

Dr. David Butts  
U. of Georgia  
30 June 1975  
2.

of the editor and his associates. May I respectfully suggest  
that it would be inappropriate to do otherwise.

Cordially,



Allan Wittman  
Manager  
Wiley-Interscience, Journals

AW:jm

enclosures

TEACHERS COLLEGE COLUMBIA UNIVERSITY  
NEW YORK, NEW YORK 10027

TO: Ronald D. Anderson and Members of the Executive Board

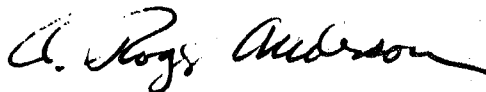
FROM: Program Committee

DATE: Oct. 18, 1975

The program committee will begin its most intensive work during the mid-year meeting. However, thus far we have accomplished the following:

1. The call for paper proposals has been published twice, once in the spring and again in the fall newsletter. We have received only about 30 contributions thus far and we wonder if this indicates an attrition in attendance this year.
2. We are pleased to report that Dr. J. Richard Suchman has agreed to be a plenary speaker. We are contacting other distinguished science education researchers to find a second plenary speaker.
3. We have sent letters to the major publishers of science education books to seek support for the N.A.R.S.T. program through advertisements. We have received some indications of interest, but the final commitments are not due until Dec.

Respectfully submitted:



O. Roger Anderson  
Committee Chairman

Item 9

a

TO: NARST Executive Board

FROM: James R. Okey *James Okey*

SUBJECT: Position of Executive Secretary of NARST

At the March, 1975 NARST Executive Board meeting Joe Novak, Wayne Welch, and I were asked to conduct a search for an executive secretary for NARST and make a recommendation to the board for action at the November, 1975 meeting. The following actions have been taken.

1. Through phone conversations we developed a "Call for Applicants" that was published in the May, 1975 NARST Newsletter. A copy of the Call is attached.
2. Applications from two persons were received.
3. Materials from the applicants were circulated to the committee and to Ron Anderson. See the attached materials.
4. The committee recommends that Paul Joslin from Drake University be named as the new executive secretary of NARST.

CALL FOR APPLICANTS FOR THE  
POSITION OF  
EXECUTIVE SECRETARY OF NARST

By action of the membership, the position of Executive Secretary of NARST has been created. This is a call for applications for the position.

It is the hope of the Executive Board that many members will be interested in this leadership role. Certainly an Executive Secretary is a critical appointment in terms of the Association. Now is the time to volunteer, to recommend, and to prepare firm proposals concerning the newly established office.

Duties: The Executive Secretary will be responsible for planning the budget, receiving and dispersing the funds of the organization, coordinating plans for the Annual Meeting, handling correspondence, keeping the current records and archives, editing the Newsletter, and working closely with the officers and committees of the organization.

Term: Five year term beginning January 1, 1976. This allows a four month overlap with the current Secretary-Treasurer to insure a smooth transition.

Nature of Applications: It is hoped that the Executive Secretary will be able to negotiate released time (at least one-fourth time) from his or her institution. In addition, it is hoped that the institution will provide office space and equipment, utilities, phone service, computer time, and part-time secretarial service. Occasional access to a small secretarial pool may be necessary to handle the work at peak times. Applications should clearly state the type of released time and services they and their institutions are willing to commit.

Procedure: Applications will be screened by the committee named below and recommendations will be forwarded to the NARST Executive Board for consideration at the November meeting.

Committee: Joe Novak, Cornell University  
James Okey, Indiana University  
Wayne Welch, University of Minnesota

Deadline: Send applications to this address by July 15.

James R. Okey  
School of Education  
Indiana University  
Bloomington, Indiana 47401



department of Curriculum & Instruction • 804-489-6373 • P.O. Box 6173 • Norfolk, Va. 23508

June 11, 1975

Dr. James R. Okey  
School of Education  
Indiana University  
Bloomington, Indiana 47401

Dear Dr. Okey:

I am offering my services and the resources of the Department of Curriculum and Instruction and the School of Education for the position of Executive Secretary of NARST.

We can provide the following items:

1. Released time: A minimum of three semester hours per year based on a twelve hour load per semester. This would be in addition to released time (3 hrs. per semester) for research.
2. Office space: Materials and supplies can be stored and used in the present Curriculum and Instruction office or a private office could be made available. Additional space is available in the Science Education Center.
3. Equipment: Ditto, mimeograph, and Xerox machines are readily available in the School of Education Building.
4. Utilities: Costs of all utilities will be absorbed by the University.
5. Phone Service: This service is available within the Curriculum and Instruction department. Up to \$50.00 per year of the cost of long-distance calls can be covered. A SCATS line is available for within State calls.
6. Computer time: Time to run labels for mailing can be covered by the current Curriculum and Instruction budget provided the level of support does not decrease within the next five years.
7. Secretarial help: The Curriculum and Instruction department can cover part-time secretarial help to process correspondence, etc. Work-study students are available to aid in duplicating, collating, and preparing materials for mailing.

8. Travel: With the current level of funding, my expenses can be covered to attend the annual national convention.

I am enclosing a resumé and a copy of "ODU at a Glance." Thank you for your attention to this application.

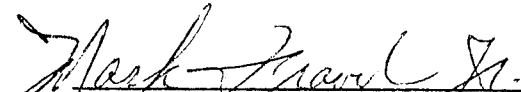
Sincerely,




William R. Brown  
Assistant Professor  
Science Education

WRB/dlf

Enclosure



Mark Fravel, Jr., Chairman  
Department of Curriculum  
and Instruction



Dwight A. Newell, Dean  
School of Education

WILLIAM RICHARD BROWN, Ph.D.

DATE OF BIRTH - August 21, 1941

WIFE - Betty Jane

HOME ADDRESS - 5571 Pin Oak Court  
Virginia Beach, Va. 23462

CHILDREN - Melissa and Glenn

TELEPHONE - (804) 424-2799

ARMED FORCES SERVICE - U. S. Army Reserve 12-59 to 12-67 (Honorable Discharge)

EXPERIENCE -

9-64 to 6-67	Olmsted Falls Sr. High School	Biology & General Science Teacher
7-68 to 8-69	Elyria Project for Innovative Curriculum (EPIC)	Research Associate in Curriculum Development
9-69 to 6-70	EPIC and Elyria Sr. H. S.	Interdisciplinary Team Teacher & Chairman of Science Department
9-69 to 12-69	Cuyahoga Community College	Biology Instructor (Part-time)
6-71 to 12-71	The Ohio State University, Faculty of Science and Mathematics Education	Graduate Research Associate Graduate Teaching Associate Biology practicum & supervise preservice teachers Administrative Assistant to the Faculty Chairman
	ERIC/Educational Resources Information Center	Research Associate -- Environmental Education
1-72 to 8-72	The Ohio State University ERIC	Instructor & Administrative Assistant Research Associate
9-72 to	Old Dominion University	Assistant Professor of Science Education

PROFESSIONAL ORGANIZATIONS -

Association for the Education of Teachers of Science  
National Association for Research in Science Teaching  
National Science Teachers Association  
Phi Delta Kappa  
The Virginia Academy of Science  
Virginia Science Supervisors Association

EDUCATION -

Baldwin-Wallace College  
The Ohio State University

B. S., June 1964, Biology and General Science

William Richard Brown

The Ohio State University  
Kent State University  
The Ohio State University

M.A. March, 1968, Science Education  
Ph.D. March, 1972, Science Education  
Biology

HONORS -

National Science Foundation grants -  
Summer Institute, 1966  
Academic Year Institutes 1967-68 and 1970-71  
Elected to Phi Delta Kappa  
Honorable Mention - AETS Outstanding Young Science Educator, 1974  
Who's Who in Virginia

CONSULTANCIES -

State Department of Education - Virginia  
Norfolk State College  
Norfolk City Schools  
Virginia Beach City Schools  
Norfolk Hebrew Academy  
Norfolk Catholic Schools  
Ginn and Company Publishers  
Newport News Schools

RESEARCH INTERESTS -

Curriculum development K - doctorate  
Science education laboratories for teacher training  
Environmental Education  
Abstractor reviewer for Investigations in Science  
Education journal ERIC/SMEAC and NARST

GRANTS -

1972 - Ohio Department of Education, Director of Environmental Education  
Institute, \$16,000.  
1974 - Old Dominion University Research Foundation Small Grant, \$125.  
1975 - Old Dominion University Research Foundation/School of Education  
Small Grant, \$500.

PUBLICATIONS -

Books -

Life Science for Seventh Grade, Educational Research Council of America, 1967  
(with R. Howe, et. al.), Later edition published as Man and the Environ-  
ment, Houghton Mifflin, 1971.

Handbook of Science Process Activities, Education Associates, Inc., 1974.

Handbook for Elementary Science Education (mimeograph), Science Education Center,  
Old Dominion University, 1975.

Handbook of Environmental Education Activities (mimeograph), Science Education  
Center, Old Dominion University, 1975.

Articles -

- 1968 The Relationships of Specified Teacher Practices to Student Achievement in a Junior High Life Science Program. Master's Thesis.
- 1969 Time, Space, Energy Relationships. Elyria Project for Innovative Curriculum ESEA Title III Report.
- 1970 EPIC ... An Innovative Curricular Model. The Sc. Tchr. 37 (2): 65-68.
- 1972 Teacher Competencies and Characteristics in a Science Preservice Teacher Education Project. Univ. Microfilms.
- 1973 Checklist for Assessment of Science Teachers and its use in a Science Preservice Teacher Education Project. JIRST 10 (3): 243-249.
- 1973 Experienced - based Science and Mathematics Preservice Teacher Education Program. Sci. Educ. 57 (4): 453-466.

PAPERS PRESENTED -

- 1972 Review of Research in Preservice Teacher Education in Science at The Ohio State University. Nat'l. Sci. Tchrs. Assoc. national meeting.
- 1973 The Effectiveness of Teaching Science As Process to Preservice Elementary Teachers in an Open-Laboratory Setting. Nat'l. Sci. Tchrs. Assoc. southeastern area meeting.
- 1973 E<sup>3</sup>--Education - Environment - Experiences. Nat'l Sci. Tchrs. Assoc. southeastern area meeting.
- 1974 Effects of Elementary and Secondary Classroom Environments on the Training of Preservice Teachers. Nat'l Assoc, for Research in Sci. Tch. national meeting. Invited paper. (Pub. ERIC Center) - abstract.
- 1974 Preservice Teacher Education in Secondary Science and Mathematics at The Ohio State University. Nat'l Assoc. for Research in Sci. Tch. national meeting. Invited paper. (Pub. ERIC center) - abstract.
- 1974 Open-Laboratory---Is it an Effective Method to Teach Science as Process? Virginia Academy of Science annual meeting. (Pub. VAS 25 (2): 112) - abstract.

MANUSCRIPTS SUBMITTED FOR PUBLICATION -

- 1974 Can You Predict? Submitted to Science and Children.
- 1975 Open-Laboratory---Is it an Effective Method to Teach Science as Process to Preservice Elementary Teachers. Submitted to Journal of Research in Science Teaching.
- 1975 With C. Wall. A Look at the Integration of Science and Mathematics in the Elementary School - 1976. Submitted to School Science and Mathematics.
- 1975 Handbook For Elementary Science Education. Submitted to Education Associates, Inc.

July 1, 1975

Dr. William R. Brown  
Department of Curriculum and  
Instruction  
Old Dominion University  
P. O. Box 6173  
Norfolk, Virginia 23508

Dear Dr. Brown:

Thank you for your letter and your proposal to act as the Executive Secretary of NARST. Your proposal along with the others that have been submitted will be reviewed by a three member committee and a recommendation will be made to the NARST Board for consideration at their meeting in the fall.

I want to be sure that I understand the proposal that you have submitted. You would devote one-fourth time to the job. Would a specific secretary be assigned to you for this task and how much time would this be? It would be more helpful if you could say specifically what portion of time the secretary would devote.

You can expect to hear some time late in the fall about your proposal. In the meantime, if you have any question don't hesitate to contact me.

Again, thank you for your interest. This position is an important one for NARST and your interest in it is appreciated.

Sincerely,

James R. Okey  
Associate Professor  
Coordinator, Science Education

JRO/djh



department of Curriculum & Instruction • 804-489-6373 • P.O. Box 6173 • Norfolk, Va. 23508

July 9, 1975

Dr. James R. Okey  
School of Education  
Education Building  
Indiana University  
Bloomington, Indiana 47401

Dear Dr. Okey:

In response to your letter of July 1, 1975, I would like to clarify points in my proposal to act as the Executive Secretary of NARST.

1. Released time: I would have the equivalent of one-eighth of my time released for this position based on a load of 12 semester hours. My schedule would be:

Teaching	5/8
Research	1/4
NARST	1/8

*This accounts for only 12 hrs. of a "40 hour" week.*
2. Point 7 - Secretarial help: For typing assignments I share a secretary with five other faculty. She could devote approximately 5-6 hours per week to NARST duties. Work study students are available on call to do non-typing duties such as duplicating and preparing materials for mailing.

I hope this will clarify the points you raised in your letter.

Sincerely,

*William R. Brown*

William R. Brown  
Assistant Professor  
Science Education

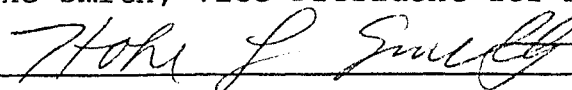
WRB/dlf

July 10, 1975

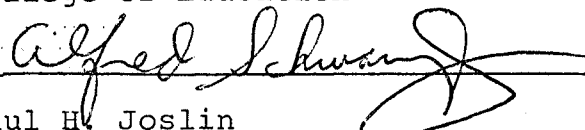
TO: National Association for Research in Science Teaching  
James Okey, Chairman  
Executive Secretary Search Committee

FROM: DRAKE UNIVERSITY  
DES MOINES, IOWA 50311

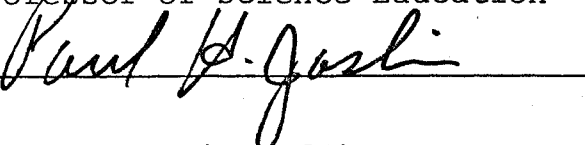
Hoke Smith, Vice-President for Academic Affairs

  
\_\_\_\_\_

Alfred Schwartz, Dean  
College of Education

  
\_\_\_\_\_

Paul H. Joslin  
Professor of Science Education

  
\_\_\_\_\_

RE: NARST Executive Office

We are pleased to invite the National Association  
for Research in Science Teaching to:

1. locate its executive office on the Drake University campus.
2. designate Drake University's Cowles Library as custodian of the permanent records of NARST.
3. appoint Paul Joslin of the Drake faculty as NARST Executive Secretary.

This is an offer to negotiate a five year agreement with general terms as follows:

1. Drake will furnish an office suitably equipped with work and reception furniture, typewriter, and filing cabinets, and will provide heating, lighting and normal maintenance services and campus phone service. Phone service includes WATS lines to Iowa, Illinois, Minnesota, Missouri, Nebraska, South Dakota, and Wisconsin.
2. Drake will provide the executive secretary one-fourth released time for NARST duties.
3. Drake will designate one clerical secretary as NARST secretary and will assign one-fourth work load to the task.
4. Drake's Cowles Library will become the custodian of NARST's permanent records and they shall be cataloged and stored under the supervision of the Director of Libraries. *Property of NARST.*
5. Drake will supply postal and printing services and other normal university general services.
6. The College of Education will provide student and other part-time help to process newsletters and convention mailings.
7. Drake will provide access to its new CDC-6400 computer with terminals in College of Education buildings.

Under this proposed agreement NARST would be expected to pay for:

1. reasonable costs for computer use.
2. postage, printing supplies, stationery, and other normal office supplies.
3. long distance phone calls.
4. travel costs for the executive secretary on NARST business.

We believe that our campus would be an ideal location for the national office of NARST. Drake University is a private, independent university fully accredited to offer Bachelors, Masters, Specialist and Doctorate degrees. The university has eight schools and colleges and a full time student body of 5,000. Our campus is open and yet compact. It is easy to go from any place on campus to any other place. Parking is plentiful and convenient. Our university is large enough to provide all the services found at larger universities and yet it is small enough to provide personal contacts between faculty and students and their visitors.

Drake University is located in Des Moines the capitol of Iowa, at the intersection of two major Interstate Highways, I-80 and I-35. The city is the heart of a metropolitan area of 300,000 population. It is served by three major airlines with daily flights to other major cities. It is easy to reach the campus by auto or plane. We believe it would be advantageous to have the national office in the geographical center of the NARST membership and thus equally accessible to all.

The university has an enviable record in science education. It has provided Iowa and the surrounding states with a very high percentage of their science teachers. It receives a high level of support for its programs from state, federal and private grants and has had NSF support continuously and without interruption since 1953. This proposal has the full support of the science faculty and of the Dean of the College of Liberal Arts who is a long time member of NARST.

We also believe Paul Joslin to be fully qualified by experience, ability and personality to serve as NARST Executive Secretary. He has been a member of NARST since 1964 and has attended every national convention since becoming a member. He has extensive budget and administrative experience with state and federal projects, professional organizations, credit unions, and as a municipal clerk. A vita is attached.

He is willing to assume the responsibilities of the office and at present has no competing responsibilities. The following NARST members are named as personal and professional references:

Robert Yager, the University of Iowa  
James Gallagher, Governors State University  
Richard Sagness, University of South Dakota  
David Butts, University of Georgia  
Allan Voelker, University of Western Illinois  
Doris Trojack, St. Louis University  
Paul Hurd, Stanford University

VITA:

PAUL HAROLD JOSLIN

1/1/73

ADDRESS: 3706 Valdez Drive Home Phone: 515-278-0960  
Des Moines, Iowa 50310 Office Phone: 515-271-2770

PERSONAL: Born Buffalo, New York 3/4/28 Married 7/9/49 (ERMA)  
Children: Nancy 9/5/51, Peggy 11/14/53, Sally 3/10/55,  
Betsy 8/20/59, Stephen 9/12/62  
Height: 5'9" Weight: 185 lbs. Health: Excellent

PRESENT POSITION: ~~Assistant~~ Professor of Education, College of  
Education, Drake University, Des Moines, Iowa 50311

JOB DESCRIPTION: Graduate: Chairman Master of Science in Teaching  
Degree. Adviser Doctoral, Specialist and Masters degree  
candidates in science education. Teach courses in research,  
science education, and curriculum. Undergraduate: Supervise  
student teachers in mathematics and science. Teach science  
methods courses. Other: Long range planning committee,  
Program development committee, Special project in elementary  
science with Des Moines schools, Inland Waters research and  
education project.

EDUCATION:	Degree	Year	Major
The University of Rochester Rochester, New York 14627	Ed.D Ed.S Ed.M	1968 1967 1958	Science Education Science Education Supervision
The University of the South Sewanee, Tennessee 37375	M.A.	1966	Biology
Cornell University Ithaca, New York 14850	B.S.	1950	Agricultural Ed.

THESES: Ed.D. A Comparison of a Team Approach and a Conventional  
Approach on Achievement in High School Biology  
M.A. A Pollen Analysis of Bergen Swamp

COLLEGE CREDITS: Education 90 hr., Biology 49, Chemistry 31,  
Earth Sciences 20, Physics 12, Mathematics 6, Humanities 27,  
Agriculture and Other 40.

RESEARCH INTERESTS:

Education: Team teaching, Cooperative test development,  
Relationship between culture and development of  
science concepts.  
Science: Palynology of post-glacial bogs, Artificial culture  
of plant embryos, Stream degradation and restoration

PREVIOUS PROFESSIONAL EXPERIENCE:

1966-67 College of Education, The University of Rochester,  
Assistant Professor and Coordinator of Science Education  
1964-66 College of Education, The University of Rochester,  
Research and Teaching Assistant  
1959-64 LeRoy High School, LeRoy, New York, Department Head  
and Science Teacher  
1954-59 Elba Central High School, Elba, New York, Department  
Head and Science Teacher  
1951-50 Wyoming Central School, Wyoming, New York, Associate  
Director and Instructor On-Farm Training Program  
1950-51 Warsaw, High School, Warsaw, New York, Teacher of  
Vocational Agriculture

## SERVICE, CONSULTING, AND DEVELOPMENT WORK IN EDUCATION:

## NEW YORK STATE EDUCATION DEPARTMENT

Regional Program in Science for Elementary Teachers - Liaison and Director.

Curriculum Development Center - Program in Water Quality

Office of Education Research - Research and Testing Associate

## STATE OF IOWA DEPARTMENT OF PUBLIC INSTRUCTION

Science Supervisors Committee

Workshops on Inland Waters, Population Ecology, Conservation

## NATIONAL SCIENCE FOUNDATION

Engineering Concepts Curriculum Project - Project Director

In-Service Institute in Earth Science - Project Director

In-Service Institute in Mathematics - Project Director

CCSS Elementary Science Project - Project Director

## NORTH-CENTRAL ASSOCIATION OF SCHOOLS AND COLLEGES

Program Evaluator in science, mathematics, program of studies

## DES MOINES PUBLIC SCHOOLS

Consultant in science and Teachers Corps

## LYONS AND CARNAHAN PUBLISHERS

Author - Junior High science program

## HAWKEYE SCIENCE FAIR

Executive Committee and Chairman of Oral Presentations

## GENESEE VALLEY SCHOOL DEVELOPMENT ASSOCIATION

Sociology consultant, Testing consultant

## ROCHESTER COUNCIL OF SCIENTIFIC SOCIETIES

Board of Directors, Science education consultant

## EDUCATIONAL RESEARCH ASSOCIATION OF NEW YORK STATE

Regional Editor

## DRAKE UNIVERSITY COLLEGE OF EDUCATION

Chairman Ad Hoc Committee on Tenure and Promotions

College Representative to University Senate

Department of Teacher Education

Modular Program Development Committee

Long Range Planning Committee

## OTHER WORK EXPERIENCE:

Full Time: U.S. Navy, Farmer (State Farmer Award), Housepainter

Part-time: Municipal Clerk, Fireman, School bus driver, Seed corn salesman, Musician, chef's assistant, waiter, rope splicer, gardener, camp counselor

## PROFESSIONAL MEMBERSHIPS:

FELLOW-American Association for the Advancement of Science

FELLOW-Iowa Academy of Science

LIFE MEMBER-National Science Teachers Association

National Association for Research in Science Teaching

School Science and Mathematics Association

American Association of University Professors

Iowa Conservation Education Council

Kappa Phi Kappa

Phi Delta Kappa

## CREDENTIALS ON FILE:

Educational Placement Bureau

College of Education

The University of Rochester

Rochester, New York 14627

PUBLICATIONS:

BOOKS

- Laboratory Investigations in Matter Life and Energy, Lyons and Carnahan, Chicago, 1972.
- Matter, Life and Energy, Lyons and Carnahan, Chicago, 1972.
- Team Teaching in High School Biology: An Experimental Evaluation, Consortium Press, Rochester, 1969.
- Water Pollution, Curriculum Development Center, New York State Education Department, Albany, 1967.
- Instructors Manual, Regional Program in Science for Elementary Teachers, New York State Education Department, Albany, 1966.

ARTICLES

- "A Comparison of the Effects of a Team Approach and a Conventional Approach on Achievement in High School Biology," Iowa Science Teachers Journal, V.9 No.2, Iowa City, Jan. 1972.
- "Poor Kid," Veritas, Drake University Board of Communications, V.2 No.2, March 1969.
- "Me and the Knowledge Explosion," Veritas, Drake University Board of Communications, V.2 No.2, March 1969.
- "Biology Team Teaching Experiment," Today and Tomorrow in Education, Genesee Valley School Development Association, V.2 No.7, April 1969.
- "Problems and Resolution in Design and Execution of Curriculum Research," Journal of Research in Science Teaching, V.4 Issue 3, 1966.
- "Cooperative Development of Unit Achievement Tests in Biology," Science Education, V.50, Dec. 1966.
- "Developing Tests to Predict Regents Outcomes," New York State Secondary Education, V.4 No.12, Oct. 1966.

OTHER

- Unit Tests in Biology, Set of Six, Office of Testing Services, Boston College, Chestnut Hill, Mass., 1968.

# NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

Affiliated with the American Association for the Advancement of Science

November 18, 1975

President  
**DR. RONALD D. ANDERSON**  
 University of Colorado  
 School of Education  
 Boulder, Colorado 80303

President Elect  
**DR. O. ROGER ANDERSON**  
 Department of Science Education  
 Teachers College, Columbia University  
 New York, New York 10027

Secretary-Treasurer  
**DR. PAUL E. BELL**  
 Div. of Academic Curriculum & Instruction  
 The Pennsylvania State University  
 179 Chambers Building  
 University Park, Pennsylvania 16802

To: NARST Executive Board

From: Stan Helgeson, Research Coordinator

Re: Research Committee Report

The present status of activities by the Research Committee is summarized as follows:

1. Research Reviews

The Summary of Research in Science Education - 1973 by Mary Budd Rowe and Linda DeTure has been published as a special issue of Science Education. The 1974 Summary by J. Dudley Herron et al is presently being put into final format for publication in the near future. Consideration of possible authors for the 1975 review is under way with a decision expected about the first of the year.

2. Work with ERIC/SMEAC

Cooperation with ERIC/SMEAC includes the production of the Summary of Research for 1974; the compilation of Abstracts for the 1976 Annual Meeting; support for two presentations at the Annual Meeting in 1976; and two more issues of Investigations in Science Education, with recommended changes beginning in the next issue.

Some changes in the pattern of funding for ERIC/SMEAC are expected in the next year. Since this will affect some of the NARST-SMEAC cooperative efforts, recommendations and suggestions by the NARST Executive Board are requested with respect to the following:

- a. Support for speeches or presentations at annual meetings is expected to be dropped. However, similar funds for some other NARST-SMEAC undertaking will probably be allowed. Thus, the Executive Board might consider:

- 1) support from other sources for the invited speakers for the 1977 meeting and for subsequent years; and,
- 2) suggestions for some joint NARST-SMEAC venture, perhaps a review or summary of research on a topical

Immediate Past President  
**DR. ROBERT E. YAGER**  
 Science Education Center  
 University of Iowa  
 Iowa City, Iowa 52242

BOARD MEMBERS:  
**DR. BETSY ANN BALZANO (1977)**  
 Dept. of Curriculum & Instruction  
 State University College Brockport  
 Brockport, New York 14420

**DR. GLENN D. BERKHEIMER (1978)**  
 Michigan State University  
 E-37 McDonnell Hall  
 East Lansing, Michigan 48824

**DR. MARVIN DRUGER (1976)**  
 Biology and Science Education  
 800 Biological Research Laboratories  
 Syracuse, New York 13210

**DR. JAMES GALLAGHER (1978)**  
 22527 Mission Drive  
 Richton Park, Illinois 60471

**DR. JAMES R. OKEY (1977)**  
 Science Education Center  
 School of Education  
 Indiana University  
 Bloomington, Indiana 47401

**DR. RICHARD SAGNESS (1976)**  
 Coordinator of Science Education  
 University of South Dakota  
 Vermillion, South Dakota 57069

Coordinator of Research  
**DR. STANLEY HELGESON**  
 Faculty of Science Education  
 Ohio State University  
 Columbus, Ohio 43210

Editor, JRST  
**DAVID BUTTS**  
 Dept. of Science Education  
 The University of Georgia  
 Athens, Georgia 30602

Coordinator of Placement  
**DR. MARVIN DRUGER**  
 800 Biological Research Laboratories  
 Syracuse University  
 Syracuse, New York 13210

Coordinator of Newsletter  
**DR. H. SEYMOUR FOWLER**  
 Science Education Faculty  
 The Pennsylvania State University  
 150 Chambers Building  
 University Park, Pennsylvania 16802

## Research Committee Report - Continued

basis. Such topics might include: Teaching Science to the Disadvantaged, Sex Differences in Science Achievement, Concept Learning, Learning Theory Research, etc. This could be a continuing series, perhaps published biennially.

- b. The increasing cost of postage will likely result in altered budget allocations for ERIC/SMEAC. This in turn could mean that SMEAC would have to turn over to NARST the mailing of the Abstracts for the 1977 meeting. Some suggestions for dealing with this problem might be considered in anticipation of the event.
- c. A sharp decrease in the number of dissertations announced through ERIC but available elsewhere is anticipated. It is requested that the NARST Executive Board consider some action to produce a concerted effort by institutions having graduate programs in science education to get copies of Master's and Doctoral theses sent directly to SMEAC.

### 3. Needed Research in Science Education

Only one suggestion for research was forthcoming from the membership following the request for topics published in the Newsletter. The Research Committee is presently reviewing possible topics for the 1977 Patrons Award papers. Suggestions from members of the Executive Board are invited.

### 4. Research Symposia and Training

No topics for symposia or training sessions have been suggested by the membership. Possible topics are presently being considered by the Research Committee. Suggestions from the Executive Board are invited.

## Report of Election Committee

A call for nominations was prepared and included in the Spring Newsletter. A special letter to 1975-76 officers and to several past presidents was also sent requesting nominees. The members of the Committee were also asked for specific suggestions for consideration for the 1976 slate of officers.

With a pool of 43 nominees available, the Committee was asked to rank each set of suggestions. Following this ranking the top 9 candidates for president-elect and the top 15 candidates for the Executive Board were used for a list on a preferential ballot. Committee members were asked to vote on these "top choices" and/or add additional names. After another round of "voting" a numerical ranking of candidates for president-elect and executive board resulted. The Committee agreed to proceed with contacting these persons in the order of voting preference.

The following slate of officers was secured and was published in the October Newsletter. PRESIDENT: Marvin Druger and Roger Olstad; BOARD MEMBERS: Donald McCurdy, David Ost, George Ivany, and Ronald Raven. Other nominations may be made by the membership by petition.

All candidates (both from the Election Committee and the membership) will be asked to provide biographical information (see attached form). Such biographical information will be included in the next newsletter or mailed with the ballots to all regular members. The election is planned for January 1 to February 1, 1976.

All candidates will be notified of the election results after February 1. Victorious candidates will be informed of the next meeting of the Executive Board in San Francisco.

Robert E. Yager, Chairman  
J. Myron Atkin  
Gene E. Hall

Information for NARST Election

Name \_\_\_\_\_

Full Academic Title \_\_\_\_\_

Academic Affiliation (including department, college, city, and state)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Academic Preparation

(Circle appropriate degree)

B.A., B.S., or \_\_\_\_\_ Institution \_\_\_\_\_ Year \_\_\_\_\_

M.A., M.S., M.A.T., or \_\_\_\_\_ Institution \_\_\_\_\_ Year \_\_\_\_\_

Ph.D., Ed.S., or \_\_\_\_\_ Institution \_\_\_\_\_ Year \_\_\_\_\_

Professional Experience (Include teaching and reference to special activities.  
Please limit to ten (10) lines.)

\_\_\_\_\_  
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NARST Activities (list in numerical order).

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

TO: Executive Board, NARST

FROM: Calvin W. Gale, Chairman of JRST Award Committee

SUBJECT: JRST Award Committee Report

DATE: September 23, 1975

The committee members J. Dudley Herron, James Okey, Donald Riechard, Jack Sherman and Calvin Gale are presently evaluating the articles in Issues 1 and 2 of Volume 12, JRST. Issues 3 and 4 will each be evaluated in the month following publication.

Hopefully, the first round evaluations will be completed by January 1. A second round evaluation of the top four articles of each issue will be conducted in January. If we are able to follow this schedule, we should submit an award recommendation to President Anderson about February 15, 1976.

The attached news announcement was submitted to Seymour Fowler for publication in the NARST Newsletter.

### JRST AWARD

The Journal of Research in Science Teaching Award of \$100 has been established to recognize the outstanding article appearing in each volume of the JRST. The 1973 Volume 10 recipients were Dr. Donald E. Riechard and Dr. Robert Charles Olsen. The 1974 award was made to Dr. Mary Budd Rowe for her two-part report in Volume 11.

The JRST Award Committee is now reviewing the articles in Volume 12. The 1975 award will be presented to the recipient at the annual meeting of NARST in April 1976.



The University of Iowa

Science Education  
787 PB

Iowa City, Iowa 52242

October 8, 1975

Dr. Ronald D. Anderson  
University of Colorado  
School of Education  
Boulder, Colorado 80303

Dear Ron:

The following has been accomplished regarding the Patron's Award:

- (1) Committee members have received information describing criteria and rating.
- (2) Two announcements in the "NARST Newsletter" have been published.
- (3) Three requests for information about NARST Patron's Award have been filled.

I am still assuming that the policy remains as last year.

- (1) Any NARST member may enter.
- (2) A cash award will be made to the winner.
- (3) Winner and two runner's-up will present their work.

I am enclosing several copies of the information being mailed to those who request it.

Sincerely,

John T. Wilson  
Assistant Professor  
Chairman- NARST  
Patron's Award

JTW:slm

1976 NARST PATRON'S AWARD

The NARST Patron's Award was designed to solicit research proposals from the NARST membership which (a) define major problems in science education and (b) delineate procedures for investigating them. Each year, a general topic is identified and announced by the NARST Research Committee. The topic for the second NARST Patron's Award is as follows:

Relationships of individual student characteristics to learning outcomes when utilizing different modes and patterns of science instruction.

This topic reflects many of the research concerns described in the NARST-NIE report. Student characteristics, for example may well include attitudes, personality factors, social-economic backgrounds, as well as various cognitive factors. Learning outcomes could also include many variables described in the report and are not limited to the acquisition of science knowledge and information. Science instruction also may consider a variety of teaching styles, instructional patterns, and modes of presentation and materials.

All members of NARST are invited to submit a research proposal. A cover sheet like the one included in this set of material must be used when submitting the research proposal.

Procedure for Submission

- 1. All members of NARST are invited to submit a research proposal.
- 2. A cover sheet is included in this set of materials and must be used when submitting the research proposal. A clear copy is acceptable.
- 3. Prepare TWO copies of a 100 word Abstract of your proposal (for publication). Include the following in the heading:

Title of the Paper  
 Author, Institutional Affiliation

- 4. Prepare FIVE copies of the research proposal. The heading should include only the title of your paper. DO NOT INCLUDE ANY AUTHOR, INSTITUTIONAL IDENTIFICATION, OR "ACKNOWLEDGEMENTS" ON THESE COPIES.
- 5. The proposals should be consistent with the following guidelines, which will also be used by the Patron's Award Committee in selecting the "best" proposal. A sample rating form is included in this set of materials for your information.
  - 1. The problem to be studied shall be well defined.
  - 2. The conceptual framework from the problem arises shall be described.
  - 3. An adequate research base for the problem shall be identified and summarized.
  - 4. At least two effective strategies (or measures) for studying the problem shall be specified.
  - 5. Any proposed design shall be experimental or quasi-experimental, permitting control and minipulation of variables.

6. Submit the above materials (typewritten, double-spaced, on standard 8½ x 11 paper) not later than January 15, 1976 to the Patron's Award Committee Chairperson, along with (a) TWO self-addressed, stamped envelopes and (b) TWO 3" x 5" index cards, typed, listing author (last name first), complete mailing address, phone number(s), and title of the proposal.

The proposal should provide an original and scholarly approach to the problem identified and should be of such a length as to appropriately develop the topic. The award recipient will be announced at the 1976 NARST annual meeting. As in the past, the top-rated proposal will be formally presented and discussed during one of the sessions at the 1976 NARST annual meeting.

Proposals and further inquiries should be made of the 1976 NARST Patron's Award Committee chairperson:

Dr. John T. Wilson  
787 Physics Building  
Science Education Center  
University of Iowa  
Iowa City, Iowa 52242  
Phone: 319-353-4922

NARST PATRON'S AWARD  
Research Proposal Rating Form \*

Directions:

For each general criterion listed below, a set of specific criteria have also been identified to help further define the general criterion. Rate each general criterion in terms of how well it was met, using the specific criteria to guide your decision. Report your rating, using any whole number from 1 to 10, using the following scale:

10 points--Outstanding. All specific criteria are met and no changes would improve the proposal.

...

1 point--Poor. Questionable that the proposal meets this criterion.

I. The problem to be studied shall be well defined.

1. The problem is clearly stated.
2. The problem is delineated in succinct, specific, and precise terminology.
3. The problem is significant.
4. The problem is a plausible research effort.
5. The problem limitations are realistic.
6. A rationale is given supporting the need to investigate the problem.
7. The problem represents an extension or application of an area of research.

II. The conceptual framework from which the problem arises shall be described.

1. A conceptual framework is adequately described.
2. The conceptual framework is relevant to the problem.
3. Important, key terminology is explained and defined.
4. The hypotheses are clearly stated.
5. The hypotheses are logically deduced from the conceptual framework.
6. The hypotheses represent significant extensions of current research knowledge in the specified area of research.

III. An adequate research base for the problem shall be identified and summarized.

1. The literature is adequately covered.
2. Only literature which is relevant to the problem is summarized.
3. Research findings are differentiated from interpretations.
4. Sources of findings are properly noted (either A.P.A. or Footnotes).
5. The relationships between the problem and previous research are clearly described.

\*Developed by John T. Wilson, Science Education Center, University of Iowa, Iowa City, Iowa 52242.

IV. At least two effective strategies for studying the problem shall be specified.

1. Two or more strategies are identified.
2. Strategies for quantifying observations are clearly explained.
3. Strategies are demonstrated to be relevant to the hypotheses posed.
4. Methods for interpreting findings are congruent with the conceptual framework and hypotheses.
5. Strategies, no matter what form they take, are clearly discrete and objective.
6. Instruments to be utilized and their scoring procedures are included.
7. Validity and reliability of strategies are established.

V. Any proposed design shall be experimental or quasi-experimental, permitting control and manipulation of variables.

1. The research design is described fully.
2. The research design is appropriate for the problem and the conceptual framework.
3. The research design is free of specific weaknesses.
4. Research design follows either an experimental design or a quasi-experimental design (i.e.: Campbell and Stanley).
5. All important variables are identified, in terms of their relevance to the problem.
6. Experimental variables (Dependent and Independent) are identified and defined.
7. The population and samples are described.
8. Sampling and other data gathering procedures are described.
9. Treatment conditions are carefully described.
10. Treatment conditions are relevant to the problem.

Total Points \_\_\_\_\_ Rank Order of Proposal \_\_\_\_\_ Rater Code \_\_\_\_\_

General Comments:

COVER SHEET

1976 NARST PATRON'S AWARD RESEARCH PROPOSAL

Proposal Title: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Author's Name: \_\_\_\_\_  
(Last) (First) (Initial)

Institutional Affiliation: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ ZIP: \_\_\_\_\_

Telephone: ( ) - \_\_\_\_\_  
Area Number

Are you a NARST member? Yes: \_\_\_\_\_ (Required for award eligibility).

Will you be attending the 1976 Annual NARST Convention to present the proposal in the event that your proposal is one of the top-rated proposals?

Yes: \_\_\_\_\_ No: \_\_\_\_\_

If not, provide the following information:

Presenter's Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ ZIP: \_\_\_\_\_

Telephone ( ) - \_\_\_\_\_  
Area Number

For Committee Use Only:

I.D. Number \_\_\_\_\_ Materials Complete \_\_\_\_\_

**University of Wisconsin-Green Bay Green Bay, Wisconsin 54302**

Educational Development

October 15, 1975

Dr. Ronald Anderson  
Department of Science Education  
University of Colorado  
Boulder, Colorado 80302

Dear Ron:

With the speed of the proverbial turtle, I have convened the Patron Activities Committee and have produced a draft copy of a report. While the members of the committee are well aware of what is in the report, they have not had a chance to edit it. This will be done within the next few days and I will telephone you any changes that are recommended by the committee, prior to your Executive Board Meeting. We were fortunate in being able to assemble all of the members of the committee for this discussion, and had excellent agreement on the points.

We also agreed that the association should seek tax exempt status (IRS-501) (C) 3. As approved by the Board of Directors at the Los Angeles meeting, I have solicited an opinion from the Internal Revenue Service and have obtained legal counsel on the status of the trust fund. Copies of the necessary forms, along with Document 557 which describes the tax exempt status, are being sent under separate cover. I recommend that this policy decision be acted on by the Board so that you, as President, can execute the necessary forms with appropriate advice from the legal counsel, which is already approved. This status will ensure that contributions made to the association are, indeed, deductible from the point of view of the Patrons.

Finally, there is a question of designated research activities or, as described in the committee report, "research on critical problems." The committee discussed the possibility of soliciting funds to support an investigation of the basic causes underlying the decrease in Science achievement as reported by the National Assessment. Certainly, this would be a worthwhile project. My question is whether or not, given the money, we would find members both interested in and willing to take part in that type of investigation. It is conceivable, also, that some of the energy companies (and their respective foundations) might be willing to support research on the Science teaching associated with alternative energy sources. What is the Board's recommendation to our committee on this type of programmatic solicitation?

Ron, I hope you and your Board have an excellent meeting. As I have said, I will be in touch with you on any changes that the committee makes in the report.

Oh yes, do manage to keep the snow west of the Rockies. We don't need it in Wisconsin for another two months.

Sincerely yours,

George T. O'Hearn

GTO/dd  
Enclosures

REPORT OF NARST PATRON ACTIVITIES COMMITTEE

October 15, 1975

Members working on this report:

Jerry Horn, South Dakota; Carleton Knight, Delaware; Ralph Lefler, Indiana; Victor Mayer, Ohio; George O'Hearn, Wisconsin; Will Selser, Missouri.

The Patron Activities Committee has reviewed the proposed Patron Activities and recommends the following guidelines, policies, plans for action and for recognition. Upon receipt of approval from the Executive Board, the committee will implement the plans, as outlined.

I. GUIDELINES FOR PATRON CATEGORIES

The committee recommends that four categories of patrons be established.

- 1. Patron Member - This category would include the emeritus member, the active member and past presidents. It is felt that one category is sufficient to accommodate the various members who may wish to be designated as patrons.
- 2. Patron Corporation - This category would include equipment manufacturers, publishing houses and such other corporations as may be willing to provide patron support for the association.
- 3. Patron Foundation - This category would include those foundations wishing to provide support for general association causes, as well as those foundations giving support for particular purposes, as outlined in the research section below.
- 4. Patron General - This category is established to accommodate those individuals who wish to provide support for research activities and science teaching, but who do not fit into any of the above categories.

II. POLICIES ON PATRON ACTIVITIES AND ASSOCIATED FINANCIAL MATTERS

The committee recommends:

1. That the minimum level of contribution for Patron <sup>Member</sup> status be set at \$100 per year, and that Patron <sup>Member</sup> classification be designated only for the year in which the contribution is made. ~~Contributions become part of the general account.~~ *Funds thus generated become part of the NARST General Account.*
2. That all Patron contributions received be deposited in an appropriate trust fund; ~~as outlined before.~~
  - A. The NARST Memorial Endowment Fund, whose capital remains intact, but whose proceeds will be used on action of the Board of Directors to support research activities, as outlined below.
  - B. The NARST Trust Fund for research and development in the teaching of Science—proceeds of this fund (deposits and earnings) would be available on action of the Board of Directors to support research activities, as outlined below.
3. An annual audit report of trust activities would be prepared by the ~~Executive Secretary~~ <sup>Executive Secretary</sup> annually, and submitted to the ~~Executive Secretary~~ <sup>Executive</sup> Board of ~~Directors~~.  
A copy of this report, showing the disposition of Patron contributions and proceeds of the trust funds, will be distributed to the membership once each year.
4. That the tax exempt status of the association and the two trust funds, named above, be established with the Internal Revenue Service through the filing of Form 1023 (Reference Publication 557) in order to acquire status 501 (C) 3.
5. That funds drawn from the above referenced trusts be used for purposes which include, but are not limited, to the following:
  - A. To support research training programs for members of NARST.
  - B. To provide matching grant support for research projects in Science teaching, under policies to be established by the Board.

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The committee recommends:

1. That the minimum level of contribution for Patron <sup>Members</sup> status be set at \$100 per year, and that Patron <sup>member</sup> classification be designated only for the year in which the contribution is made. *Money from Patron Membership will go into the NARST general account.*
2. That all Patron contributions received be deposited in an appropriate trust fund, ~~as outlined before.~~
  - A. The NARST Memorial Endowment Fund, whose capital remains intact, but whose proceeds will be used on action of the Board of Directors to support research activities, as outlined below.
  - B. The NARST Trust Fund for research and development in the teaching of Science—proceeds of this fund (deposits and earnings) would be available on action of the Board of Directors to support research activities, as outlined below.
3. An annual audit report of trust activities would be prepared by the <sup>Exec.</sup> Secretary-Treasurer annually, and submitted to the <sup>Exec.</sup> Board of Directors. A copy of this report, showing the disposition of Patron contributions and proceeds of the trust funds, will be distributed to the membership once each year.
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  - A. To support research training programs for members of NARST.
  - B. To provide matching grant support for research projects in Science teaching, under policies to be established by the Board.

and s b c d e

- C. To support <sup>in part or entirely</sup> an annual award for excellence in research in Science teaching.
- D. To conduct a study of critical problems in Science teaching, as designated by the appropriate research committees.
- E. To support, in part, a distinguished lecture given in conjunction with the National Meeting.
- 6. That a Patron <sup>member</sup> category be established as a part of the membership registration form with a descriptive paragraph included, so that members may know of the Patron category and have the opportunity to designate that as their membership level. The fee for this should be set to equal the level set for Patron, <sup>including</sup> ~~plus~~ the annual dues.

III. PLANS FOR ATTRACTING SUPPORT

The Patron Activities Committee recommends that:

1. Patron members be solicited through personal contact and via letter. Ralph Lefler will coordinate this activity. Action, this year, will be limited to emeritus members, past presidents and selected members of the association, (no general mailing).
2. Patron corporations, both publishers and equipment suppliers, will be identified by Vic Mayer and Will Selser. Personal contact and written communication, approved by the committee, will be channeled to prospective corporate Patrons.
3. Patron foundations will be identified by Jerry Horn, Carleton Knight and George O'Hearn. Correspondence, approved by the committee, will be directed to these foundations.
4. A report of Patron Activities will be submitted to the Executive Board two weeks prior to the annual meeting. An interim report will be submitted January 15, and at such time as is necessary in order to meet the printing deadlines for the program for the annual meeting.

IV. RECOGNITION AND COMMUNICATION

1. <sup>Patron & Patron Members</sup> ~~All Patron Members Emeritus and Patron Members Past Presidents~~ will be listed in the program. ~~Some form of recognition, such as a special seating section, should be arranged at the annual banquet.~~ Any Patron Member <sup>or Patron</sup> who prefers to remain anonymous may do so.

2. All Patron corporations will be listed in the convention program, and in the annual reports.

3. A letter of appreciation will be sent by the President to each Patron <sup>and Patron Member</sup> on receipt of the Patron contribution. A copy of the annual report of trust fund activity will be sent to each Patron for the year or years in which contributions are made.

REPORT OF THE MEMBERSHIP COMMITTEE

TO THE

EXECUTIVE BOARD

OF

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

SUMMARY OF ACTIVITIES

The Membership Committee has concentrated on the questions of organizing membership drives and campaigns, and establishing contacts with institutions having graduate programs in science education. (See copy of letter to members of the membership committee).

The replies to this letter--only two members replied--indicate that the NARST should continue membership drives on a limited and personal basis. One member has recommended the establishment of a network on a regional basis to facilitate a greater visibility of NARST at regional conventions, drive-in conferences and workshops. (See replies to letter to committee members).

The Membership Committee has continued its campaign to increase the membership of NARST by contacting prospects through various sources.

- a. During the NARST Annual Meeting at Los Angeles, association members were asked to submit the names of colleagues who were felt to be prospective new members. (See the enclosed form). A list of names submitted and a letter inviting the individuals on the list to join NARST is included with this report.
- b. Visitors to the NARST meeting were invited to join our association. The list was compiled by our Secretary-Treasurer, Paul E. Bell. This list and a letter of invitation is also included with this report.

The Membership Committee is not aware of the number of new members derived from these invitations but it will request this information from the Secretary-Treasurer in the near future.

Recommendations

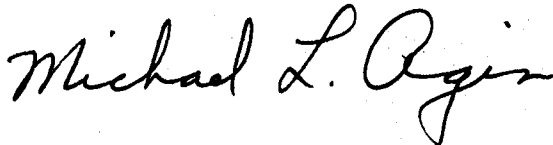
Assuming that the members of NARST will approve the change in membership from regular and associate to regular membership, the Chairman foresees the need for the following:

- a. Modification of the brochure to reflect the change in membership--by redesigning the brochure or developing an insert for the brochure that serves as a means of clarifying the membership status and an application for membership. The latter approach will enable us to use the old brochures and save money. When the supply of brochures is depleted, we could make the necessary changes before we print new ones.
- b. Establishment of regions for recruiting new members. Have members of the Membership Committee from those regions. These representatives could work with the Chairperson in contacting individuals and organizations within the various regions. It is probably best to develop this approach gradually and contact a few professional groups initially than to use an over-ambitious shattergun approach.

## SUMMARY OF ACTIVITIES - p. 2

- c. Appoint members of the Membership Committee before the NARST meeting. The President-elect (with advice from the Board and the President) should select the Chairperson a couple of months before the NARST Annual Meeting. Then the chairperson and President-elect should select members of the committee on the basis of regions, commitment to actively serve on the committee, and a commitment to participate in a meeting of the Membership Committee at the NARST Annual Meeting. Appointment to committees is an honor but also includes a commitment to contribute time and effort. This is particularly true of the Membership Committee.

Respectfully submitted,



Michael L. Agin, Chairman  
Membership Committee, NARST

September 1975

Copy of Letter to Membership  
Committee members.

April 2, 1975

Dear [REDACTED]

As you know, the Board of Directors of NARST have charged us with several tasks:

1. prepare a brochure;
2. organize membership drives;
3. organize a yearly campaign; and
4. establish contacts in states and/or at universities with graduate programs in science education.

The first task has been completed; the last three have to be considered but they appear to be interrelated and should be considered simultaneously.

I would like suggestions, etc. from you; address yourself to the following questions:

1. How should an annual campaign be organized?
  2. On which science education conventions and meetings should we concentrate our campaign?
  3. What types of contacts should we make with a.) states and b.) schools with graduate programs?
  4. Who should we contact--names and addresses of individuals and associations--in order to establish a membership network?
- and
5. What advantages or disadvantages do you foresee with a formal membership network?

Enclosed are reports that I submitted to the Board with some recommendations, but I feel that we need to present a more refined position. The Board has directed the Policy Committee to consider the question of membership which means that

April 2, 1975

we will probably go to a regular member only system. So respond to the above questions with the assumption that the membership campaign will be for regular members.

I will appreciate any comments that you may wish to make and will forward them to the Board. I hope to hear from you soon.

Sincerely,

Michael L. Agin  
Associate Professor of Science Education

MLA/bvs  
Encls.

UNIVERSITY OF WASHINGTON  
SEATTLE, WASHINGTON 98195  
April 28, 1975

*College of Education*

RECEIVED  
MAY 2 1975  
Office of Teacher Education  
Michigan Technological University

Dr. Michael L. Agin  
Office of Teacher Education  
Michigan Technological University  
Houghton, Michigan 49931

Dear Dr. Agin:

With regard to the Membership Committee tasks outlined in your letter of April 2, 1975, I wish to submit the following suggestions.

1. The membership campaign should concentrate on obtaining new members endorsed by active NARST members. For the most part the emphasis would be on new Ph.D.'s but not restricted to the area of science education per se. Endorsements serve the purpose of enabling us to remain personal while being selective. In the long run we hope to obtain members who will renew their membership each year. Previous members of NARST who have allowed their membership to lapse should be encouraged to rejoin but should not be required to obtain endorsement.

The endorsement procedure suggested above implies that there is some real advantage to obtaining membership in NARST; therefore, I would further suggest that the Board of Directors consider alternatives to making NARST membership more attractive - the Journal (JRST) is not enough for those members unable to attend the annual meeting. For example, NARST may wish to (1) provide a quarterly newsletter different in format from JRST; (2) establish a speakers bureau of non-members prominent in science, politics, business, etc. Speakers could then be called upon to make formal presentations or lead discussions at regional meetings, if such meetings would be considered desirable; (3) publish research grant information from NSF, USOE, and private foundations; and (4) establish annual meetings that emphasize the differences between NARST and AETS.

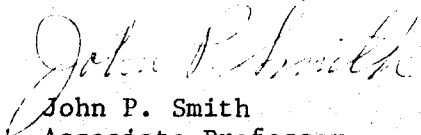
2. I believe membership campaigns should be restricted to NARST meetings. Campaigns at the meetings of other organizations may result in conflict through competition - a situation we would do well to avoid.

Dr. Michael L. Agin  
April 28, 1975  
Page 2

3. The more impersonal contact with a school or graduate program should be made only after it has been determined that active members are not represented in the school or graduate program we wish to contact.
- 4 & 5. I would not personally endorse a formal membership network. A network, in my estimation, does not seem necessary for a relatively small organization such as NARST. Such a network seems both cumbersome and impersonal.

I hope the above comments are of the kind you need to make final recommendations to the Board. If you wish any other assistance I will be most happy to help in any way that I can.

Sincerely yours,



John P. Smith  
Associate Professor  
Science Education

JPS:jk

UNIVERSITY OF DELAWARE  
NEWARK, DELAWARE  
19711

DEPARTMENT OF CURRICULUM AND INSTRUCTION  
COLLEGE OF EDUCATION  
WILLARD HALL EDUCATION BUILDING  
PHONE: 302-738-2331

June 3, 1975

Dr. Michael L. Agin  
Office of Teacher Education  
Michigan Technological University  
Houghton, Michigan 49931

Dear Dr. Agin:

The need for a membership network depends on the type of member NARST wishes to attract. If the organization is concerned exclusively with researchers, then an informal approach utilizing nominations, personal conversations and graduate school solicitations appears adequate. If the target of membership campaigns is to include both the researcher and the consumer of research, then a more formal approach in the form of a membership network appears advantageous.

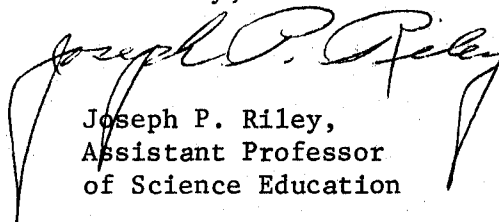
A network set up on a regional basis would provide a manageable vehicle for the dissemination of membership information, brochures and other campaign literature. This regional network could be set up with the six membership committee persons assuming the responsibility of contacting the people and institutions in their region making up the network.

I feel a regional network would provide the opportunity for greater visibility of NARST at conventions, drive-in conferences, and workshops resulting in increased membership.

If this regional concept is acceptable, the task of providing names and addresses of individuals and associations needed to establish a membership network would be greatly simplified. Annual campaigns would be facilitated more easily through a regional network.

I would be interested in seeing other recommendations made by the committee.

Sincerely,



Joseph P. Riley,  
Assistant Professor  
of Science Education

JPR:cmc

FORM FOR RECOMMENDATIONS

Dear Fellow Member:

The Membership Committee is compiling a list of names of prospective new members and ask for your assistance. We feel that you are our best source of information and would like to have you submit names of individuals who you feel should be invited to join NARST.

If you wish to submit any name(s), please fill in the form at the bottom of this sheet and place it in the box provided for this purpose at the registration table. We will write a personal letter to him or her and extend an invitation to join our organization. We will be happy to include your name in the letter if you wish but will honor your request for anonymity if that is your desire.

Thank you for your cooperation.

Sincerely,

*Michael L. Agin*  
Michael L. Agin, Chairman  
Membership Committee

Please complete this form.

I wish to recommend the following person(s) to be invited to join NARST.

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

I do ( ) do not ( ) wish to have my name included in the invitation.

Your Name \_\_\_\_\_

Please place in the box at the registration table.

INDIVIDUALS INVITED TO JOIN NARST  
(Recommended by Members)

Dr. Eric Mendoza  
Professor of Science Education  
Science Teaching Center  
Hebrew University  
Jerusalem, Israel

Dr. Avraham Blum  
Department of Agricultural Education  
Hebrew University  
Rehovoth, Israel

Allan Platt  
Deputy Director & Director of  
Student Affairs  
230 N. Broad Street  
Philadelphia, Pennsylvania 19102

Larry Hovey  
Associate Professor C & I  
College of Education  
Texas Tech University  
Lubbock, Texas 79409

Tom Zwick  
Instructor of Earth Science  
Division of Science  
Eastern Montana College  
Billings, Montana 59101

Dr. Harold Hungerford  
Elementary Science Education  
Southern Illinois University  
Carbondale, Illinois 62901

Dr. William D. Haut  
Science Teacher  
Rt #1, Box 183  
Watsonstown, Pennsylvania 17777

Roger Johnson  
Associate Professor C & I  
Elementary Science  
370 Peik Hall  
University of Minnesota  
Minneapolis, Minnesota 55455

Amos Dreyfus  
Department of Agricultural Education  
Hebrew University  
Rehovoth, Israel

Dr. Ruth Ben Zvi  
Department of Science Teaching  
Weitzman Institute  
Rehovoth, Israel

Fred Savich  
Program Director  
112 Summit Lane  
Cyn Wyd, Pennsylvania 19004

Dr. Robert McRae  
Professor of Physics  
Division of Science  
Eastern Montana College  
Billings, Montana 59101

Frank Salamon  
Assistant Dean and Associate Professor  
St. Joseph College  
West Hartford, Connecticut 06117

Dr. Audrey Tomera  
Elementary Science Education  
Southern Illinois University  
Carbondale, Illinois 62901

Herbert Lamb  
Graduate Student  
Science Education Center  
University of Texas-Austin  
Austin, Texas 78712

Alan Humphreys  
Associate Professor of C & I  
370 Peik Hall  
University of Minnesota  
Minneapolis, Minnesota 55455

Sample Letter

Person Making the recommendation is not identified as he or she had requested.

April 14, 1975

██████████  
Associate Professor  
Curriculum and Instruction-Elementary Education  
University of ██████████  
██████ Hall  
██

Dear ██████████

Your name has been submitted to the NARST Membership Committee because you exhibit the professional interest and performance in science education that is needed to assure the growth of our organization.

We would like to extend an invitation to you to become a member of the National Association of Research in Science Teaching and actively participate in its functions. We hope that the enclosed brochure will help you to become more familiar with NARST, and encourage you to consider joining an organization that is the leader in science education research.

If you have any questions, please contact our Secretary-Treasurer, Dr. Paul E. Bell, The Pennsylvania State University, University Park, Pennsylvania 16802.

Sincerely,

Michael L. Agin  
Associate Professor of Science Education  
and Chairman, NARST Membership Committee

MLA/bvs  
Encl.

Sample      Letter

75.

Person making the recommendation is identified - See P.S. - as he or she had desired.

April 14, 1975

██████████  
Associate Professor of Curriculum and Instruction  
College of Education  
██████████ University  
██████████

Dear ██████████:

Your name has been submitted to the NARST Membership Committee because you exhibit the professional interest and performance in science education that is needed to assure the growth of our organization.

We would like to extend an invitation to you to become a member of the National Association of Research in Science Teaching and actively participate in its functions. We hope that the enclosed brochure will help you to become more familiar with NARST, and encourage you to consider joining an organization that is the leader in science education research.

If you have any questions, please contact our Secretary-Treasurer, Dr. Paul E. Bell, The Pennsylvania State University, University Park, Pennsylvania 16802.

Sincerely,

Michael L. Agin  
Associate Professor of Science Education  
and Chairman, NARST Membership Committee

MLA/bvs

Encl.      P. S.

You will be happy to know that your name was submitted by ██████████, who has expressed a personal confidence in you and your ability to contribute to our search for improving science education.

# NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

Affiliated with the American Association for the Advancement of Science

President  
**DR. RONALD D. ANDERSON**  
 University of Colorado  
 School of Education  
 Boulder, Colorado 80303

June 6, 1975

President Elect  
**DR. O. ROGER ANDERSON**  
 Department of Science Education  
 Teachers College, Columbia University  
 New York, New York 10027

Dr. Michael L. Agin  
 Route #1, Box 79  
 Chassell, MI 49916

Secretary-Treasurer  
**DR. PAUL E. BELL**  
 Div. of Academic Curriculum & Instruction  
 The Pennsylvania State University  
 179 Chambers Building  
 University Park, Pennsylvania 16802

Dear Dr. Agin:

The following are the persons who attended the NARST convention at Los Angeles as visitors. Dr. Bell indicated to me that you would like a list of these people so that you might contact them about becoming members of NARST.

Immediate Past President  
**DR. ROBERT E. YAGER**  
 Science Education Center  
 University of Iowa  
 Iowa City, Iowa 52242

BOARD MEMBERS:  
**DR. BETSY ANN BALZANO (1977)**  
 Dept. of Curriculum & Instruction  
 State University College Brockport  
 Brockport, New York 14420

Jessica Broughton  
 2205 B. Trailside  
 Austin, Texas 78704

Hasbi Bin Mahbar  
 Box U-579  
 Florida State University  
 Tallahassee, Fla 32306

**DR. GLENN D. BERKHEIMER (1978)**  
 Michigan State University  
 E-37 McDonnell Hall  
 East Lansing, Michigan 48824

Mr. Thongchai Chewprecha  
 4220 Knox Road, Apt. C  
 College Park, MD 20740

John Merone  
 235 L. Spring  
 Holbrook, N.Y. 11741

**DR. MARVIN DRUGER (1976)**  
 Biology and Science Education  
 800 Biological Research Laboratories  
 Syracuse, New York 13210

Elizabeth L. Clowney  
 515 Aura Drive  
 Monroeville, PA 15146

Wayne R. Schade  
 10602 School House Lane  
 Austin, TX 78759

**DR. JAMES GALLAGHER (1978)**  
 22527 Mission Drive  
 Richton Park, Illinois 60471

Harry Fehrenbacher  
 1142 NE 72  
 Portland, Oregon 97213

Allen Vegotsky  
 Biomedical Interdisciplinary Curr.  
 Project, 1947 Center Street  
 Berkeley, CA 94704

**DR. JAMES R. OKEY (1977)**  
 Science Education Center  
 School of Education  
 Indiana University  
 Bloomington, Indiana 47401

Louis A. Gardner  
 Box 256

Charles W. Wallace  
 National Science Foundation  
 Washington, D.C. 20550

**DR. RICHARD SAGNESS (1976)**  
 Coordinator of Science Education  
 University of South Dakota  
 Vermillion, South Dakota 57069

Ga. State Univ.  
 Univ. Plaza  
 Atlanta, GA 30303

Coordinator of Research  
**DR. STANLEY HELGESON**  
 Faculty of Science Education  
 Ohio State University  
 Columbus, Ohio 43210

Editor, JRST  
**DAVID BUTTS**  
 Dept. of Science Education  
 The University of Georgia  
 Athens, Georgia 30602

Mildred W. Graham  
 C & I Dept.  
 Ga. State University  
 University Plaza  
 Atlanta, GA 30303

Gary W. Wester  
 303 Woodward Avenue  
 Kalamazoo, Michigan 49007

Coordinator of Placement  
**DR. MARVIN DRUGER**  
 800 Biological Research Laboratories  
 Syracuse University  
 Syracuse, New York 13210

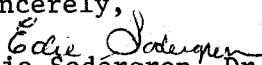
Coordinator of Newsletter  
**DR. H. SEYMOUR FOWLER**  
 Science Education Faculty  
 The Pennsylvania State University  
 150 Chambers Building  
 University Park, Pennsylvania 16802

Bud Harty  
 321-Education Building  
 Bloomington, Indiana 47401

Victor L. Willson  
 204 B. Burton Hall  
 U. of Minnesota  
 Minneapolis, MN 55455

Stephen M. Yekeson, 100 Western Avenue, Elmwood Apt. F-12,  
 Kalamazoo, MI 49008

I hope this list will be of some help in your recruiting  
 of new members.

Sincerely,  
  
 Edie Sodergren, Dr. Bell's NARST Secretary

September 15, 1975

[REDACTED]  
[REDACTED]  
[REDACTED]

Dear [REDACTED]

As a visitor to the NARST Annual Meeting at Los Angeles, you had an opportunity to observe the members of our organization engaged in various activities. We hope that you were impressed by the professional interest in science education exhibited by our members, and that you would like to become more actively involved with them.

We would like to extend to you an invitation to become a member of the National Association of Research in Science Teaching and actively participate in its functions. We hope that the enclosed brochure will help you to become more familiar with NARST, and will encourage you to join an organization that is the leader in science education research.

If you have any questions, please contact our Secretary-Treasurer, Dr. Paul E. Bell, The Pennsylvania State University, University Park, Pennsylvania 16802.

Sincerely,

Michael L. Agin  
Associate Professor of Science Education  
Chairman, NARST Membership Committee

MLA/bvs  
Encl.

# NARST

OPPORTUNITIES TO SERVE

## PURPOSE

THE NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING (NARST) WAS FOUNDED FOR THE PURPOSE OF PROMOTING RESEARCH IN SCIENCE EDUCATION AT ALL EDUCATIONAL LEVELS, AND FOR DISSEMINATING THE FINDINGS OF THIS RESEARCH IN SUCH WAYS AS TO IMPROVE SCIENCE TEACHING. THE MAJOR AREAS OF CONCERN ARE THEORETICAL AND APPLIED RESEARCH STUDIES ENCOMPASSING CURRICULUM DEVELOPMENT AND ORGANIZATION, EVALUATION, LEARNING THEORY, TEACHER EDUCATION, TEACHER CHARACTERISTICS, STUDENT CHARACTERISTICS, AND METHODS OF INSTRUCTION IN THE SCIENCES. SURVEYS OF CURRENT PRACTICES, PREDICTIONS OF FUTURE ISSUES, AND DEVELOPMENT OF SCIENCE EDUCATION THEORY REPRESENT ADDITIONAL INTERESTS.

NARST IS VERY SENSITIVE TO KEEPING IN TOUCH WITH THE WISHES OF THE MEMBERSHIP. THE OPERATION OF THE ASSOCIATION IS COMPLETELY VOLUNTARY AND DRAWS ON A LARGE NUMBER OF MEMBERS SERVING IN A VARIETY OF CAPACITIES. BROAD GEOGRAPHICAL REPRESENTATION IS A REGULAR CONSIDERATION IN SEEKING COMMITTEE MEMBERSHIP. A MEMBER IS AFFORDED OPPORTUNITIES TO BE AS ACTIVE AS DESIRED.

## EXECUTIVE BOARD

- Six Directors (3 years)
- JRST Editor (5 years)
- President-Elect, President, Past-President (3 years)
- Secretary-Treasurer (3 years)
- Research Coordinator (3 years)
- Newsletter Editor (3 years)

## STANDING COMMITTEES

- Policy Advisory
- Financial Advisory
- Publications Advisory
- Program
- Research
- Election

## MEMBERSHIP

THE CONSTITUTION OF NARST SPECIFIES THAT MEMBERSHIP SHALL BE DRAWN FROM THOSE ACTIVE IN RESEARCH IN SCIENCE EDUCATION AND THOSE ACTIVE IN SCIENCE EDUCATIONAL LEADERSHIP SUCH AS TEACHERS, SUPERVISORS AND CURRICULUM DEVELOPERS.

ASSOCIATE MEMBERSHIP IS AVAILABLE TO ALL PERSONS WHO ARE INTERESTED IN AND WANT TO SUPPORT THE PURPOSES OF THE ORGANIZATION.

## SPECIAL COMMITTEES (ONE YEAR)

- JRST Award
- Patron Award
- Patron's Activities Committee
- Science Education Directory
- Membership
- Federal Support for Research in Science Education
- Placement Services

# SINCE 1928

THE CONTRIBUTIONS OF NEW MEMBERS ARE READILY SOUGHT AND ACCEPTED

## MEMBERSHIP APPLICATION INFORMATION

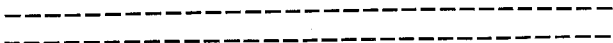
PLEASE SEND:

NAME (PLEASE PRINT) \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

MAIL THIS INQUIRY FORM TO THE  
 SECRETARY-TREASURER OF NARST:

DR. PAUL E. BELL  
 179 CHAMBERS BUILDING  
 PENN STATE UNIVERSITY  
 UNIVERSITY PARK, PA. 16802

- \_\_\_\_\_ REGULAR MEMBERSHIP APPLICATION FORM
- \_\_\_\_\_ ASSOCIATE MEMBERSHIP APPLICATION FORM
- \_\_\_\_\_ JOURNAL OF RESEARCH IN SCIENCE TEACHING SUBSCRIPTION FORM
- \_\_\_\_\_ ADDITIONAL INFORMATION ABOUT NARST



# National Association for Research in Science Teaching

## SPECIAL FEATURES

### PLACEMENT INFORMATION SERVICE

NARST MAINTAINS A FREE PLACEMENT INFORMATION SERVICE WITH LISTINGS BEING DISTRIBUTED AT THE ANNUAL MEETING. LISTINGS WILL BE MAILED UPON REQUEST TO ANY MEMBER OF NARST AND TO ANY PROSPECTIVE EMPLOYERS THROUGHOUT THE YEAR. EMPLOYMENT OPPORTUNITIES ARE ALSO PUBLISHED IN THE NEWSLETTER.

NARST MEMBERS ARE RESPECTED RESEARCH INVESTIGATORS

### ANNUAL MEETING

- + MEETINGS COORDINATED ALTERNATELY WITH NSTA AND AERA
- + LEADING SPEAKERS
- + FORUM FOR PRE-PUBLISHED RESEARCH PAPERS
- + SYMPOSIA FEATURING NEW THRUSTS
- + PRESENTATION OF PATRON AWARDS
- + CONTACT WITH FOREMOST RESEARCHERS IN SCIENCE EDUCATION
- + OPEN BUSINESS MEETINGS
- + OPPORTUNITY TO SHARE YOUR IDEAS AND BECOME INVOLVED
- + PLACEMENT INFORMATION SERVICE

### PUBLICATIONS

JOURNAL OF RESEARCH IN SCIENCE TEACHING PUBLISHED QUARTERLY AND CONSISTING OF REFEREED ARTICLES REPRESENTING THE BEST RESEARCH IN SCIENCE EDUCATION.

SPECIAL PUBLICATIONS IN COOPERATION WITH ERIC/SMEAC  
REVIEW OF RESEARCH IN SCIENCE EDUCATION, A COMPILATION OF ABSTRACTS ORGANIZED BY CATEGORY, E. G., DR. JOSEPH KOVAK'S REVIEW OF OVER 400 DOCUMENTS COMPLETED DURING 1972.

INVESTIGATIONS IN SCIENCE EDUCATION, ANALYSES AND CRITIQUES OF SELECTED TOPICS OF CURRENT INTEREST.

SCIENCE EDUCATION INFORMATION REPORTS, SPECIAL ISSUES AS CURRENT TOPICS AVAIL THEMSELVES.

NEWSLETTER PUBLISHED QUARTERLY WITH REPORTS, CONTACTS, MEETING ANNOUNCEMENTS AND NEWS OF THE MEMBERSHIP, CALL FOR PAPERS, OFFICERS' NEWS AND PLACEMENT INFORMATION.

MEMBERSHIP DIRECTORY PUBLISHED EACH SEPTEMBER. INCLUDES THE ADDRESSES OF ALL MEMBERS FOR THE CURRENT CALENDAR YEAR.

LEADERSHIP DIRECTORY PRINTED AND DISTRIBUTED EACH YEAR AS RECORD OF INVOLVEMENT AND CURRENT ACTIVITIES.

### PATRONS

PATRONS ARE THOSE WHO CONTRIBUTE \$100 FOR A YEAR'S MEMBERSHIP. WITH THIS SUPPORT, PATRON AWARDS CAN BE PRESENTED FOR OUTSTANDING RESEARCH AND TO SPONSOR FURTHER PROJECTS OF THE ACTIVE MEMBERSHIP.

### PATRON AWARDS

(MADE POSSIBLE BY PATRON'S CONTRIBUTIONS)

PATRON RESEARCH AWARD IS PRESENTED TO THE AUTHOR OF THE BEST PROPOSAL CONFORMING TO THE RESEARCH TOPIC OF INTEREST ANNOUNCED AT THE PREVIOUS ANNUAL MEETING. THE PAPER SHOULD BE A PARADIGM OF GOOD EDUCATIONAL RESEARCH. THE AWARD CONSISTS OF A CASH AWARD AND A CERTIFICATE TO THE WINNER.

FIRST AWARD IS PRESENTED TO THE AUTHOR OF THE BEST ARTICLE APPEARING IN A SINGLE VOLUME (JANUARY-DECEMBER) OF THE JOURNAL OF RESEARCH IN SCIENCE TEACHING. THE AWARD, CONSISTING OF A CASH AWARD AND A CERTIFICATE TO THE WINNER, IS PRESENTED AT THE ANNUAL MEETING.

AFFILIATED WITH

AAAS & ICASE

October 7, 1975

TO: NARST Executive Committee  
FROM: Fletcher G. Watson  
RE: NARST-NIE ad hoc committee, Status Report

After the presentation, discussions and suggestions at the annual meeting in Los Angeles, the final revision has been "on ice."

Of particular concern has been the request by Dick Harbeck of NIE that we be very specific about two or three research tasks. Since the draft paper was rather general, citing and justifying a few high priority specifics remains difficult.

Although a final draft has yet to be sent to the Committee for reactions, I expect to have the report completed before Christmas.

What distribution should be anticipated, how many copies, and how would the production costs be covered?



---

Fletcher G. Watson

NARST Placement Committee  
 "Breakfast Deliberations"  
 Los Angeles--1975  
 Capie, Fowler, Voelker

1. Who uses Placement services?
2. What do users expect from service of NARST? How?
3. Should we publicize non-university, non-school entrance education careers? *Are considering ways to locate means to advertise our presence.*
4. Should we "search" for the camouflaged positions? *Will do some.*
5. Who should we tell that we exist:  
 Chronicle of Higher Education *Letters to be written*  
 AACTE
6. What are the optimum times to mail list of those seeking positions? *Using self-addressed envelopes*
7. Should we ask those with positions to announce when the position has been filled?
8. What is the most useful information to include on position announcements? *add about candidates qualifications? e.g. if a candidate's current teaching and research interests more important than a chronology of past experiences? Should dissertation title and/or research involvement be included? research the form*
9. Are there suggestions for modifying the format for announcing positions or making candidacy known?
10. Should we hold a seminar at the annual meeting to aid candidates and those with positions better provide key information about position requirements and job qualifications? *requested a place on program; would make results available.*
11. Should we concentrate on having information available on a need basis rather than sending mailings  
 e.g. keeping a running list of persons available that could be obtained at a moment's notice by characteristics according to job description--e.g. key sort option as well as cumulative list. *Thinking!*
12. How should the Newsletter be used in the process?

September 25, 1975

Dr. Ronald D. Anderson, President  
NARST  
School of Education  
University of Colorado  
Boulder, CO 80302

Dear Ron:

You didn't state how many copies of this report you wanted, but I am sending fifteen.. As I mention in our phone conversation, the AAAS Section X committee accepted my proposed symposium as per the attached letter. The session will be in Boston on February 22, 1975, from 9:00am to 12:00 pm., and the presenters will be Dr. Paul Brandwein, Dr. Herman Branson, and Dr. Fletcher Watson.

As you see, I managed to get NARST's sponsorship with no financial committment but I would like to suggest two things to the Board:

1. that the Board and other interested members submit to me before the February 1976 AAAS meeting in Boston, a list of possible topics and/or presentors for the 1977 meeting, and
2. that the Board approve at least a partial reimburse- for my trip to Boston, since I have spent much time in arranging the session, the symposium is indeed NARST sponsored, and I will be attending a Section X meeting in NARST's name

Sincerely,

Robert B. Collagan,  
NARST Representative  
to Section X of AAAS

*American Association  
for the Advancement of Science*

1775 MASSACHUSETTS AVENUE, NW, WASHINGTON, D. C. 20036  
MEETINGS OFFICE Phone: (202) 462-4455 Public Affairs Advancement, Washington, D. C.

June 10, 1978

Dr. Robert B. Coligan  
Professor of Pathology and Laboratory Science  
Morgan State College  
Baltimore, MD 21239

Subject: ~~HLA-DRB1 Gene~~ ~~HLA-DRB1~~ ~~HLA-DRB1~~ ~~HLA-DRB1~~  
Anytime College Employees, Or College at all in Century III,  
sponsored by AAAS Division X ~~HLA-DRB1~~

Dear Dr. Coligan:

It is my pleasure to inform you that the above symposium has been  
scheduled as a part of the program for the 1978 AAAS Annual Meeting in Boston.  
I am writing on behalf of the Association to invite you to serve as the  
arranger for this program.

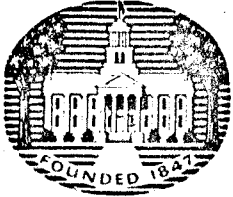
Enclosed please find a set of forms and deadlines which outline  
specific requirements for program development. Please return the above form  
with your preliminary program information by 28 August. The AAAS Meeting Office  
staff and I will be happy to assist you with planning and arrangements, and  
discuss with you any questions which you may have.

Please note that because of the schedule of the meeting, it is necessary  
that you submit your program information to the Meeting Office by the above  
deadline.

I am looking forward to working with you on this exciting  
meeting.

*[Handwritten Signature]*  
Annex Meeting  
Director of Meeting

cc: Dr. Fletcher G. Watson  
Mr. Joseph P. Contas



The University of Iowa

Science Education

Iowa City, Iowa 52242

TO: Executive Board of NARST  
 FROM: Edward L. Pizzini  
 RE: Representative's Report on Section Q Activities of the AAAS  
 DATE: September 29, 1975

Section Q will not hold a formal meeting during the annual convention; however, Dr. Fordyce, Secretary of the committee, has indicated that the committeemen at large will meet informally with Dr. James Robinson. The program for Section Q during February 18-24, 1976, include the following:

- 1) "Can We develop a Reliable Applied Science of Education" - Dr. J. L. Lipson, Arranger
- 2) "New Ways of Raising a Scientific Literate Society" - Dr. M. B. Rowe, Arranger
- 3) "Teaching of Science Relative Social Issues" - Dr. L. Trout, Arranger
- 4) "Innovative Application in Science Education" - Dr. R. Bernott, Arranger
- 5) "New Frontiers in Math Education" - Dr. W. Fitzgerald, Arranger
- 6) "Current Practice in Environmental Education" - Dr. R. J. Raven, Arranger
- 7) "Environmental Education - New Audiences" - Dr. R. L. James, Arranger
- 8) "Energy & Environmental Education" - Dr. J. N. Fowler, Arranger
- 9) "Opportunities for Women in Science & Engineering" - Dr. M. Schweber, Arranger
- 10) "Problems of Minorities at Majority Institutions" - Dr. F. Effien, Arranger

A complete report will be submitted after the annual meeting.

(ICASE)

FEDERATION INTERNATIONALE DES ASSOCIATIONS DE PROFESSEURS DE SCIENCES

(FIAPS)

President:

DR. J. DAVID LOCKARD  
Science Teaching Center  
University of Maryland  
College Park  
Maryland 20742 USA

Executive Secretary/Treasurer:

MR. DENNIS G. CHISMAN  
The British Council  
10 Spring Gardens  
London SW1A 2BN  
Tel: 01-930 8466  
Cable: BRITCOUN LONDON

Executive Committee:

September 25, 1975

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The Doon School  
Dehra Dun 248001  
India U.P.

MR. JOHN KUSI ACHAMPONG  
Ministry of Education  
PO Box M188  
Accra  
Ghana

MR. JOHN YIP  
Ministry of Education  
Kay Siang Road  
Singapore 10

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Association for Science Education  
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DR. DAVID COHEN (Editor)  
School of Education  
Macquarie University  
North Ryde, NSW 2113  
Australia

Dr. Ronald D. Anderson  
President  
National Association for Research in  
Science Teaching  
University of Colorado  
School of Education  
Boulder, Colorado 80303

Dear Ron:

As a NARST representative along with Kip Knight to the International Council of Associations for Science Education, I would file the following report on ICASE.

1. The <sup>number of</sup> national science teachers associations now full members of ICASE continues to increase. At the latest count there were 24 fully paid and 17 who have indicated a serious interest and are expected to send delegates to the ICASE General Assembly Meeting at Oxford University this coming December 1975.
2. It should be noted that NARST is one of the charter members of ICASE and its support was very helpful in getting the organization formed and helping it during its first years. Your first two NARST delegates to the formation meeting in April 1973, were David Lockard and Wayne Welsh. At the conclusion of that meeting David Lockard was elected the first President of ICASE and will serve in that capacity until the end of 1975, at which time a new slate will be elected.
3. It should be a satisfaction to the NARST membership to know they have had active representation on the development of ICASE's projects and without additional cost over the membership fee have had their delegate present at all meetings including the Executive Committee functions.
4. Notable activities of ICASE include:
  - a. A Directory of Science Teaching Associations worldwide (which lists all associations with basic data and is not limited to ICASE members)
  - b. Developing a UNESCO Handbook for Science Teachers
  - c. Holding a special seminar on evaluation of Integrated Science in December 1975 at Oxford University with a special invited paper from a former NARST President, Wayne Welsh and one from an active NARST member Victor Mayer.

- d. Establishment of a teacher exchange program
  - e. Writing of an organizational manual to help new organizations get formed at the National level
  - f. Writing of a laboratory safety manual
  - g. Production and distribution of a quarterly newsletter sharing information from associations, dates, and up-coming activities
  - h. Furnishing special speakers and programs for member associations and numerous related activities
5. An outline has been prepared for the up-coming UNESCO Handbook for Science Teachers and special funds have been furnished by UNESCO to get constructive criticism and helpful support into the production of the handbook. Each member association is eligible for funds of from \$50-\$100 for input at two places to the handbook's production.
- a. Responding by November 15, 1975 to the manuscript outline, including furnishing advise about whether its coverage is useful as well as providing factual information through a structured questionnaire furnished with the outline.
  - b. Responding by March 15, 1976 to the draft manuscript itself which will be distributed at the ICASE Meeting in Oxford in December 1975. Payment will be made after the materials are received in March. (The outline and questionnaire are attached for your immediate action.)
6. The next general assembly meeting of ICASE will be held December 28th-30th 1975 at Oxford University. It will be interspersed with the UNESCO Seminar on Evaluation of Integrated Science, and will be followed beginning January 2 - January 8, 1976 by the annual meeting of the British Association for Science Education. David Lockard's expenses will be covered by his role as President of ICASE but Kip Knight's will need to come from NARST and/or his own personal fianaces if he is to participate.
7. Both as a service to science education in general and fellow national science teacher associations specifically, as well at to itself, NARST needs to continue to be an active member of ICASE furnishing information, time and expertise to this important international body.

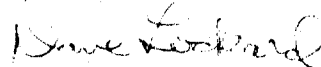
Recommendations for NARST Board Action:

- 1. That NARST continue to be a full and active member of ICASE through regualr payment of its membership dues, furnishing leadership to the organization, supporting ICASE Projects through information ~~and~~ and member expertise and distributing related information to its membership.
- 2. That the NARST membership through those particularly interested immediately get involved in reacting to the outline for the up-coming UNESCO Handbook for Science Teachers -- through:
  - a. Completing the outline questionnaire
  - b. Constructive criticism of draft manuscripts through first part of next year.
 This will not only help in the maintenance of quality standards

of the publication, but also could be an immediate method of receiving financial return to help in paying the membership dues. The President of NARST would be the individual to bring about immediate action.

3. That NARST should actively support the participation of its two delegates to ICASE, Dave Lockard and Kip Knight, and should encourage their presence particularly at the ICASE General Assembly Meeting at Oxford University in December 1975. Since Dave Lockard will have most of his expenses covered through his role as ICASE President it would be most appropriate for Kip Knight to receive any kind of financial support that is deemed possible.
4. That NARST should actively furnish information for the ICASE Newsletter and in turn distribute information from the Newsletter to its members through communication channels. The editor of the NARST Newsletter should be in regular communication with Dave Cohen, Australian editor of the ICASE Newsletter.
5. That NARST members should be encouraged to actively participate in ICASE projects and suggest activities for this international organization.

Respectfully submitted,



Dave Lockard  
NARST Representative to ICASE

# NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

Affiliated with the American Association for the Advancement of Science

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**DR. RONALD D. ANDERSON**  
University of Colorado  
School of Education  
Boulder, Colorado 80303

President Elect

**DR. O. ROGER ANDERSON**  
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Teachers College, Columbia University  
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The Pennsylvania State University  
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Immediate Past President

**DR. ROBERT E. YAGER**  
Science Education Center  
University of Iowa  
Iowa City, Iowa 52242

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**DR. JAMES GALLAGHER (1978)**  
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Coordinator of Research

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Editor, JRST

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Athens, Georgia 30602

Coordinator of Placement

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Northern Illinois University  
DeKalb, Illinois 60115

Coordinator of Newsletter

**DR. H. SEYMOUR FOWLER**  
Science Education Faculty  
The Pennsylvania State University  
150 Chambers Building  
University Park, Pennsylvania 16802

## MEMORANDUM

TO: NARST Executive Board  
FROM: Ron Anderson *Ron*  
SUBJECT: NARST Preference ballot on NSTA Affiliation  
DATE: October 20, 1975

Seventy votes were received in response to the statement and ballot published in the NARST Newsletter last May. Of the votes received, fifty were for affiliation, and twenty were against.



## New York University

School of Education  
Department of Science Education

23 Press Building  
Washington Square  
New York, N.Y. 10003  
Telephone: (212) 598-2926

October 20, 1975

MEMORANDUM TO: Board of Directors,  
National Association of Research in Science Teaching

FROM: F. James Rutherford, Retiring President  
National Science Teachers Association

RE: President Ronald Anderson's request for a report on  
1974-75 NSTA/NARST activities.

---

During my term in office as President of NSTA, I believe that substantial progress was made in strengthening the relationships between our two organizations. Your President, Dr. Ronald Anderson, and his predecessor in office, Dr. Robert Yager, both participated fully with me in trying to find ways in which NARST and NSTA could together help bring about a closer and more effective tie between practice and research.

Two specific steps were taken by NSTA which I now believe require the official approval of the NARST Board of Directors if the NSTA actions are to be implemented. One is related to the recently completed reorganization of NSTA, the other to the institution of a biannual research lecture.

### Reorganization:

All steps, including membership referendum on By-Laws changes and Board of Directors approval, have now been completed for instituting a major reorganization of the NSTA structure. Copies of the complete documents describing the changes have been made available to you. The parts which directly affect NARST are noted here:

- (1) NSTA is now composed of seven divisions, one of which is the Division of Research. The others are Pre-School and Elementary, Middle School and Junior High School, High School, College, Supervision, and Teacher Education.

October 20, 1975

- 90.
- (2) A major national science education organization whose goals and membership largely overlap with those of one of the Divisions of NSTA may, upon mutual agreement, affiliate with the NSTA in an especially close working relationship. The details of the relationship are to be worked out individually between NSTA and each affiliating group and may be modified from time to time; however, each group will retain its autonomy.

At this time there will be four Division Affiliates. NSTA has agreed to invite NARST to be affiliated with the Division of Research.

- (3) Joint membership promotion activities with Division Affiliates may be undertaken in cooperation with and by consent of the officers of controlling bodies of these groups.
- (4) The NSTA Board of Directors will be comprised of 12 District Directors, 7 Division Directors, 3 NSTA Presidents, and 4 Division Affiliate Presidents. This means that the President of NARST will, if NARST approves, be a voting member of the NSTA Board of Directors (as will the presidents of AETS, NSSA, and CESI).
- (5) During odd numbered years the members of NSTA will elect a Director of the Research Division. The candidates for this office will both be science education researchers, and the winner will serve on the Board of Directors for two years. The Research Division Director will also serve as the Chairman of the Standing Committee on Research in Science Teaching.
- (6) Members of the NSTA Board of Directors will take office at the time of the last general session of the annual national convention. This means that the NARST president serving at that time will be designated to serve on the NSTA Board. The Research Director will take office at the convention following his election.
- (7) Of the 17 NSTA standing committees (each of which will meet at least once annually), one is the Committee on Research in Science Teaching. This committee will be composed of eight persons, one being the elected Division Director, one a District Director appointed by NSTA president, and six at-large presidential appointees. Of the latter, three two-year appointments are to be made each year, two by the NSTA president, and one appointed by the NSTA president on the nomination of the NARST president. One of these six appointees will serve as Committee Clerk and each of the other five will serve on one of the other following committees: Awards, Chapters and Affiliated Groups, Membership, Nominations, and Publications. This means that researchers will now be represented on key NSTA committees.

- (8) The general responsibility of the Research Committee is as follows: This committee shall search for practical ways by which the Association can promote quality research on science teaching and accelerate its effective application; suggest NSTA studies; submit an annual report to the Board of Directors including recommendations for action; upon request critically review NSTA research proposals and offer suggestions for strengthening them; review research projects being conducted by NSTA staff or under NSTA auspices; and from time to time conduct special studies as directed by the President, requested by the Board of Directors or initiated by itself and approved by the Board.

NSTA/NARST Ellsworth Scott Obourn Memorial Lecture

Bud Obourn's widow has very generously agreed to establish a fund to underwrite a biannual lecture at the National NSTA convention dealing with the importance of research on science teaching. The funds will provide travel expenses and have an honorarium large enough, we hope, to attract the most outstanding researchers in the world. The lecture will be given major billing and be presented on those years in which NARST and NSTA are meeting at the same place, the first of which will be in 1977. The lecturer need not be a "science education researcher," but any researcher in any field which somehow or other impinges upon the teaching and learning of science. Attached is a copy of the final resolution authorizing the establishment of the Memorial Lecture.

If NARST agrees to cooperate with us in this then it will be necessary for us to work out the details of selection, promotion, time, etc. We at NSTA are delighted with this great opportunity to merge the interests of researchers and practitioners.

Requested Action

In behalf of the President, Mr. Fred Blumenfeld, and the Board of Directors of NSTA, I request that the Board of Directors of NARST consider taking the following actions:

- (1) Accept the status of Division Affiliate with the NSTA Division of Research.
- (2) Consider ways in which NSTA officials and members might be more closely involved in NARST affairs.
- (3) Adopt the resolution authorizing the establishment of the NSTA/NARST Ellsworth Scott Obourn Memorial Lecture.
- (4) Authorize the President of NARST, or an individual or group appointed by him, to work out with an NSTA representative the details associated with the Obourn Memorial Lectureship.

FJR/vsw

Respectfully submitted,



F. James Rutherford  
Retiring President.

cc: Ronald Anderson  
Fred Blumenthal  
Robert Silber  
Bob Yager

Resolution authorizing establishment of a memorial in honor of Ellsworth Scott Obourn to be known as the NSTA/NARST Ellsworth Scott Obourn Memorial Lecture

---

WHEREAS, Ellsworth Scott Obourn distinguished himself during his lifetime in an illustrious career spanning half a century in science education as a science and mathematics teacher and as a specialist for science in the United States Office of Education, and achieved national recognition for his work in science education as a teacher, as a member of the National Society for Secondary Education's Yearbook Committees on Science Education, as a science education advisor in Thailand, and as a program specialist in science teaching with UNESCO in Paris, and

WHEREAS, he was a charter member of both the National Association of Research <sup>in</sup> and Science Teaching and of the National Science Teachers Association, and

WHEREAS, he made extensive contributions to literature, research, and work with young people in science classrooms and was a strong and persistent advocate for developing students' problem solving abilities through science, and

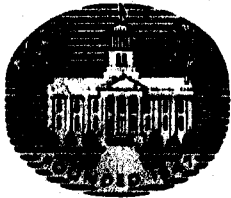
WHEREAS, his colleagues conferred upon him in 1972 the Distinguished Service Citation for his contributions to science education, and

WHEREAS, it is the desire of the National Science Teachers Association, <sup>National Association of Research in Sci Teaching</sup> and of Mrs. Ellsworth Scott Obourn that ~~the National Science Teachers Association~~ <sup>be established and</sup> establish a memorial lecture devoted to research and science education in honor of his name and memory and in further recognition of his outstanding contribution to research and science education, and which would have as its objective the furtherance of educational and scientific purposes

It is now, therefore,

*and the Nat Assoc. for Research in Sci  
Tching.*

RESOLVED that National Science Teachers Association, with the participation and support of Mrs. Ellsworth Scott Obourn, establish a memorial lecture in honor of Ellsworth Scott Obourn and in recognition of his outstanding contribution to research and science education, henceforth to be known as The NSTA/NARST Ellsworth Scott Obourn Memorial Lecture, to be presented every other year at the NSTA/NARST spring convention commencing in the spring of 1977 by a person to be selected by a joint NSTA/NARST committee as an outstanding leader on research and science education.



The University of Iowa

Science Education

Iowa City, Iowa 52242

July 15, 1975

file -  
NARST  
1975 Fall Board  
Meeting

Dr. Ronald D. Anderson  
School of Education  
University of Colorado  
Boulder, Colorado 80302

Dear Ron:

The NSTA Board meeting is over and I was pleased to represent NARST. You will be interested to know that many had heard of the negative statements concerning NARST becoming a "Division Affiliate" and hence were pleased to hear of the vote of our membership regarding the move. As you know NSTA supported my trip and in every respect I was treated as a Division Affiliate president -- just as were the presidents of CESI, NSSA, and AETS. If all goes as to plan, these people (including you as president of NARST) will be full voting members of the Board next spring.

Fred Blumenfeld took office as the new NSTA president during the meeting. He will soon be appointing members to the new committees which will be functioning early this fall. Meetings of all committees, including the Research Committee, will be held the first of November. Probably Fred will be contacting you to name the NARST representative (in addition to you) to this standing committee. Fred plans to have all committee appointments pretty well set by September 1.

I feel that I contributed to the Washington meeting and I learned much that can be used by us in NARST as well. Although much of this contribution and this insight is intangible, the enclosure regarding the NSTA/NARST Ellsworth Scott Obourn Memorial Lecture is not. I believe that Jim Rutherford has talked to you about this plan for a major speaker every other year -- the year we met with NSTA. I assume that you will want to share this proposal with the Board when we met in November. A copy of the resolution that was distributed to members of the NSTA Board is enclosed.

The reciprocal arrangements with respect to the NSTA president (or his designate) being an ex officio member of our Board was discussed again (as it was with other Division Affiliates). As you know, I have checked this out with the Policy Committee. I feel we will be proposing an amendment to the By-laws that would permit the Board to enlarge our Board in this manner (by adding presidents of any group with which we are affiliated) if it so desires. If the Board approves (both the division affiliate designation and the possibility of the NSTA president being represented on our Board), we could be "in business" with all changes in advance of our spring meeting.

Dr. Anderson  
Page 2  
July 15, 1975

Let me know your thinking and if and when I can help further.

Sincerely,



Robert E. Yager  
Professor

REY:mam  
Enc.

cc: Fred Blumenfeld

STATE UNIVERSITY COLLEGE AT BROCKPORT / state university of new york  
brockport, new york 14420



Faculty of Education  
Department of Curriculum and Instruction

October 27, 1975

Dr. Ronald Anderson  
School of Education  
University of Colorado  
Boulder, CO 80302

Dear Ron:

This letter is in reference to your reminder dated October 16 concerning convention evaluation. First, I'd like to point out that the reminder was the first notification I have received about a report. If there was a first letter, it was not received by me. Secondly, I do have an evaluation format worked up for the convention evaluation. However, in order to simplify the whole process, the intent is to use a format that would apply to all sessions. In order to do this, I need to get the program format from the Program Committee. I assumed that this could be done in Chicago in November during the overlapping meetings of the Executive Board and the Program Committee.

By using the format I've designed, an individual can evaluate each of the sessions attended. This eliminates the necessity of having separate evaluation sheets for each session. Also individuals are not required to fill out too many forms. Individual evaluations become cumbersome and usually do not get done because people get tired of filling them out.

Arrangements have been made to run a computer scoring and analysis of the data. Incidentally, there will be no cost to NARST for printing or computer time.

Copies of the format will be available for the meeting in November. Once the Program Committee has the program format, the specifics can be filled in.

Sorry not to have responded earlier, but until last week, I didn't realize a response was in order.

Sincerely,

Betsy Ann Balzano  
Curriculum and Instruction

BAB:bbw

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## MEMORANDUM

TO: NARST Executive Board  
 FROM: Ron Anderson *RA*  
 SUBJECT: Proposal From NSTA Research Committee  
 DATE: November 3, 1975

The NSTA Research Committee would like to have a preliminary indication of the interest of NARST in sponsoring a joint NARST-NSTA Award for outstanding research in science education having a direct impact on classroom teaching. In its deliberations, the NSTA Committee expressed an interest in an award under the following stipulations.

1. The award would be for completed research.
2. The award could go to an individual or a group.
3. The award could be for historical, philosophical, or empirical research, ~~but not for development.~~
4. An award each year would not be necessary. The award would be given only when a worthy recipient was available.