

Newsletter

Vol. 22 #2 NEWSLETTER OF THE NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING June 1980

PRESIDENT'S PAGE

As we enter the 1980's many problems confront the NARST and science education generally. These include inflation, declining student enrollment, shortages of science teachers, the need for more knowledge about the teaching and learning of science, and ways for more effective dissemination of research findings that hold promise for improving classroom practice. However, problems frequently provide opportunities to re-examine and re-direct our activities. The NARST is in a position to contribute to these opportunities. Some of the actions of the Association are described for your consideration.

We will continue the practice, begun last year, of identifying papers presented at the annual meeting of the NARST which have significant implications for improving classroom instruction. The authors are then invited to present their papers at the next annual meeting of the NSTA.

Members of the NARST, along with members of NSTA, AETS, NSSA, and CESI, are cooperating with the NSTA Research Committee in the evaluation of a document produced by NSTA: "Science Education: Accomplishments and Needs." This study is intended to gather information on how members of these various organizations view the status of science education.

The NARST Research Committee last year cooperated with the NSTA Research Committee in a study of research priorities as perceived by elementary and secondary school science personnel. One outgrowth of this activity has been the production of a proposal, to be submitted for external funding, to establish a network of science education researchers and teachers to more effectively communicate research needs and findings. This would thus continue the cooperative efforts of the Research Committees of the NSTA and NARST.

Improved interactions with other associations are intended as an outcome of Executive Board action to establish an ad hoc committee for Interassociation Liaison. This committee will establish guidelines and procedures for the exchange of display materials and information at the annual meetings of the associations. The intent is to better communicate with other associations and to make contact with members of these associations who may also be interested in becoming members of the NARST.

The Research Grant Support Committee, an ad hoc committee established last year, will continue its efforts to develop sources of funding to further research interests of the NARST.

Finally, the NARST will continue to cooperate, through the Research Committee, with ERIC/SMEAC in identifying authors and producing the annual Summary of Research in Science Education which is published by John Wiley and Sons. Topics will also be considered and recommended to ERIC/SMEAC for topical reviews of research as appropriate in view of the state of the art and consistent with funding available.

Your suggestions and recommendations are welcomed with respect to any of the foregoing activities as well as for any function of the NARST. Just as problems in science education provide opportunities for the Association, problems you perceive related to the Association provide you with an opportunity to improve the operation of the NARST.

Stanley L. Helgeson, President

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- RESORT SETTING FOR 1981 MEETING -

The 1981 Annual Meeting will be held Monday April 6 through Thursday April 9 at Grossingers in the Catskill Mountains of New York. Grossingers is about 90 miles northwest of New York City.

Note the change in schedule. We shall meet after the NSTA meeting scheduled for New York City, April 3-6. In previous years we have met just prior to NSTA.

The Board approved this change for several reasons; the main one was cost. At Grossingers your total cost for the three day session including room, meals, tips, taxes and transportation to and from either the NSTA headquarters hotel or a New York area airport will be \$168.91 double occupancy or \$207.43 single. The lowest rates we were quoted for Manhattan hotels were \$66.00 single, \$78.00 double, and \$23.00 for the annual luncheon.

The sessions will begin Monday evening. A chartered bus will leave the NSTA headquarters hotel at about 3:00 p.m. on Monday arriving at Grossingers in time for swimming, tennis or other diversions before 7:00 p.m. dinner. The sessions will conclude with luncheon Thursday, ending about 2:00 p.m. after which a chartered bus will return you to New York. We'll try to arrange this trip to deliver to the New York area airports. Details will appear in the Fall Newsletter.

Those who have previously experienced the food, entertainment and hospitality of Grossingers know that we shall have a rewarding and delightful meeting.

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OUTSTANDING PAPER AWARD

The NARST Awards Committee invites all those who presented papers at the 1980 Convention in Boston, Massachusetts, to submit eight copies of the completed paper for selection of The Outstanding Paper Award. This award will be presented at our next convention (1981 in New York). Please send by June 30th the eight copies of your paper and a stamped self-addressed postal card (which will be returned to you so that you know your papers were received), to Ellen S. Simmons, 4315 Martha Avenue, New York, New York, 10470.

World Trends in Science Education

The Atlantic Institute of Education is pleased to announce the publication of World Trends in Science Education. The contents are based on the proceedings of an international symposium (August, 1979 in Halifax, Nova Scotia) under the same title and should be of interest and value to science teachers, undergraduate and graduate science education students, university science education faculty and all those with an interest in science education. The contributors are leading science educators from socialist, capitalist and less developed countries, who taken together present a picture of world trends and issues in science education. The publication is hard-bound, typeset in two columns on 21x27 cm. paper, 300 pages (approx.).

Price structure:

If payment is enclosed with order..More developed countries - US \$24.
..Less developed countries - US \$20.

Otherwise, the cost of postage will be added.

Place orders with:

Atlantic Institute of Education
5244 South Street
Halifax, Nova Scotia
B3J 1A4

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The School Science and Mathematics Association announces that applications are being accepted for the position of Editor of the Journal, SCHOOL SCIENCE AND MATHEMATICS. The present editor plans to retire from the position June 1982. Prospective applicants will need to provide evidence of the following qualities:

- a. Strong professional commitment to the editor's role, including acceptance of the need for the continuous effort (and time) which must be devoted to producing the Journal.
- b. Availability of the time necessary for the task; e.g., institutional support in terms of released time and secretarial assistance.
- c. Appropriate professional background (knowledge and experience) in science and/or mathematics education.
- d. Excellent administrative and organizational skills.
- e. Personal commitment to serving a professional organization.
- f. Excellent editorial capability; e.g., ability to edit, to elucidate, to work with various ideas.
- g. Ability to work tactfully and cooperatively with other professionals.
- h. Belief in the role and goals of the School Science and Mathematics Association.

Applicants for the position should indicate their interest prior to 30 June 1980 by contacting the Chairperson of the SSMA Publ. Comm. Marilyn Suydam, 1200 Chambers Rd. #201, Columbus, Ohio 43212.

The editorial board of ASSESSMENT IN HIGHER EDUCATION: AN INTERNATIONAL JOURNAL wishes to solicit participation through publication by North American researchers. A special issue of the Journal is being planned under the supervision of Professor Harold Good (Biology Department, Queen's University, Kingston, Ontario, CANADA) and Professor Joseph Novak (Department of Education, Stone Hall, Cornell University, Ithaca, New York 14853). Researchers interested in submitting manuscripts for consideration should write to either Professor Good or Professor Novak. The Board is also seeking additional personal or library subscriptions to the Journal or the Microfiche Edition. Subscriptions are ten pounds for the Journal and four pounds for Microfiche. Subscriptions should be sent to Dr. Duncan Harris, University of Bath, Claverton Down, Bath BA2 7AY, U.K.

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CURRICULUM IMPLEMENTATION: Report of a Conference

We are happy to announce the publication of the book, CURRICULUM IMPLEMENTATION AND ITS RELATIONSHIP TO CURRICULUM DEVELOPMENT IN SCIENCE. This book is based upon papers presented in the International Bat Sheva Seminar held in Rehovot-Jerusalem August 1978. We believe that libraries and science education researchers should have this book.

To order send \$15.00 or equivalent to: Pinchas Tamir
The Israel Science Teaching Center
The Hebrew University of Jerusalem
Jerusalem ISRAEL

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NIE CONSIDERS NEW REGIONAL INSTITUTIONS

The National Institute of Education (NIE) is considering how to best provide coordinated R&D services in areas of the country not served, or only partially served, by the eight existing regional educational laboratories. Generally, these areas are the Northeast, the Southeast, and the upper-Midwest. Possible courses of action--which depend upon the availability of sufficient funds as well as specific needs in the regions under consideration--include the establishment of new NIE-sponsored regional R&D institutions, the expansion of existing laboratories' regions, or both.

The Institute would like to hear from all persons and groups having an interest in this activity. A guide to the specific issues on which NIE seeks views and advice is available from the NIE Task Force on Nationwide R&D Services, Mail Stop 11, National Institute of Education, Washington, D.C. 20208.

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B A C K V O L U M E S S A L E

WILEY-INTERSCIENCE JOURNALS.....Until June 30th only you may obtain back issues of the following Journals at half the price listed below.

Journal	Volumes	Years	Price/Volume	Postage/Handling Per Volume Outside U.S.
Journal of Research in Science Teaching	1-15	1963-78	35.00	5.00
Science Education	1-62	1919-78	30.00	5.00
Curriculum Inquiry	1-11	1968-73	10.00	2.00
	Issues		Issue	Issue outside North America
	4-8	1974-78	25.00	4.00
	Volumes		Volume	Volume outside North America

SEND PAYMENT TO:

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605 3rd Avenue
New York, NY 10016

Payment for international orders must be made in U.S. currency. Write for price list of other Wiley Journals. Orders filled until supply exhausted.

ANNUAL NARST AWARDS..... NARST AWARD for that paper or research report presented at the previous years annual meeting which is judged to have the greatest significance and potential in the field of Science Education. "A Meta-Analysis of Selected Advance Organizer Research Reports From 1960-1977", Arthur White and James Kozlow.

JRST AWARD for that manuscript published in the previous years Journal that is judged to be the most significant contribution to Science Education (TIE). "The Development and Construct Validation of a Group-Administered Test of Formal Thought", John Staver and Dorothy Gabel. "Relative Effects of Modeling on the Acquisition of Wait-Time by Pre-Service Teachers and Concomitant Changes in Dialogue Patterns", Linda Deture.

missing member...missing member...CHARLES L. BOTTOMS
8 BREWER STREET
CAMBRIDGE, MA 02198

Can you give us a correct address for this member? We would appreciate that.

NARST ANNUAL MEETING

1981

CALL FOR PROPOSALS

The 1981 Annual Meeting of NARST will be held in the Catskill Mountains at Grossinger's Conference Center, two hours drive from New York City, on April 6-9 following the NSTA meeting in New York City. An announcement appears elsewhere in this Newsletter. Members should find this mountain retreat atmosphere and the more favorable rates a welcomed change!

This is a call to NARST members and others who wish to submit proposals for the program of the 1981 meeting. Lists of TOPIC AREAS, TYPES OF RESEARCH and PROGRAM FORMATS appear on the following pages and are representative of previous programs, but suggestions for innovation are invited.

Persons interested in submitting proposals should send:

1. Two copies of the completed Cover Page.
2. Six copies of a 3-6 page Proposal with Bibliography. Please omit name(s) of author(s).
3. Six copies of an Abstract of no more than 500 words, which will appear in ERIC ABSTRACTS. Please omit name(s) of author(s).
4. Two self-addressed, stamped envelopes, to acknowledge receipt of proposals and Program Committee's final decision.

TO: Rita W. Peterson
Chair, NARST Program Committee
Director of Research in Science Education
Office of the Directorate for Science Education
Washington, D. C. 20550

POSTMARKED
NO LATER THAN
OCTOBER 10, 1980

All proposals must be reviewed anonymously by the Program Committee before October 30-31, when they meet to plan the program and prepare the ADVANCE PROGRAM which will be mailed about December 1, 1980 to all NARST members and others who have submitted proposals. The Advance Program is intended to facilitate early registration for reservations at Grossinger's.

PROGRAM FORMATS

1. Contributed Papers: Generally, brief 15-minute reports of research are grouped by the the Program Committee, three or four per session. This format accommodates persons who have not planned to report their research with other members of a team. Proposals accepted for presentation will be evaluated and those judged of high quality will be scheduled for special sessions. Discussants are usually assigned to these sessions and presenters will provide discussants with a copy of the paper before the annual meeting.
2. Paper Sets: Several related studies originating from a common base of research are presented in a single concurrent session. This format accommodates from three to five persons who may divide a single report which represents a major research effort in terms of time, number of researchers, and/or geography. This format also allows for common elements of design or approach to be presented once rather than repetitiously. An outside discussant may be assigned to the session.
3. Round Table Discussions: Round Table Discussions are used to provide a thorough analysis of a paper by a group. Presenters will have an hour in which various aspects of their study are examined with others in a discussion format. One or more papers may be discussed simultaneously in a round table format. If members agree to present their research in this format, they should bring materials such as protocols, instruments, computer printouts, experimental curriculum materials, and logs to aid the discussion. Round table discussions may be held in large rooms with one or more tables, or outdoors, weather permitting. This format is not conducive to presentations which require the use of audio-visual equipment.
4. Panels: Panels are constituted o provide a mechanism for debating or discussing serious issues in science education. Each panel has a moderator, who may or may not organize the panel, but who is expected to regulate the flow of discussion or debate. Proposals should describe various aspects of the issue and the diverse views represented by the speakers.
5. Symposia: Webster (1953) described symposia as an ancient Greek form of entertainment characterized by drinking, music and intellectual discussion. The Program Committee will accept proposals formed to promote discussion of current or needed research, sans music and dancing, although any Greeks may arrange their own informal symposia. Following a brief presentation by each member of the symposium, interaction among presenters and the audience is expected. Proposals should describe the common research interest of symposia members, and their varied backgrounds, positions or experience, without naming individuals.
6. Research Methods Seminar/Workshop: This format is designed to enable NARST members to acquire new research skills or update old ones. These one or two hour sessions are planned for intensive involvement by those in attendance, and presenters are expected to provide resources for study and discussion.

The Program Committee may ask a few individuals to make presentations if proposals are not submitted in areas which in the Committee's view deserve attention. In addition, the Committee wishes to accommodate a greater number of papers next year, and asks for support from proposers if it is necessary to reassign some papers from one format to another among Formats 1, 2, and 3.

TOPIC AREAS

- | | |
|---|--|
| 01 - Teacher Education:
Preservice | 07 - Curriculum Development/
Evaluation |
| 02 - Teacher Education:
Inservice | 08 - Research Methodology |
| 03 - Teacher Behavior/
Characteristics | 09 - Instrument Development/
Testing |
| 04 - Student Behavior/
Characteristics | 10 - Scientific Literacy |
| 05 - Instruction | 11 - Science & National
Issues |
| 06 - Learning Theory | 12 - Other |

TYPES OF RESEARCH

To promote a broad research base, the Committee encourages proposals that describe a variety of types of research. Standard guidelines appropriate for reporting each type of research are found in most research methods texts, and should be followed in preparation of Proposals and Abstracts. In general, these include: Objectives or Purpose, Methodology or Procedure Followed, Results and Conclusions.

- TYPES: A. Experimental
B. Non-Experimental: 1. Survey, 2. Ex Post Facto, 3. Evaluation, 4. Historical, 5. Philosophical, 6. Case Study, 7. Other

CRITERIA

The following standard criteria will be applied to review proposals:

- * Significance of the problem and conclusions for the advancement of research in science education, as evidenced by the link to or departure from previously published research theories, methods or conclusions.
- * Clarity of expression and description.
- * Appropriateness of the procedures and conclusions, given the stated purpose and results.

COVER SHEET
CALL FOR PROPOSALS
1981 NARST ANNUAL MEETING

1. TITLE OF PAPER _____

2. AUTHOR PRESENTING PAPER _____
INSTITUTION _____

ADDRESS _____

_____ Phone

If your proposal is part of a Paper Set, each member of the set should submit a separate proposal. Proposals for Panels, Symposia or Seminar/Workshops composed of more than one person, please list names and addresses of all persons here rather than on the proposal.

3. TOPIC AREA (Listed on previous page) _____

4. TYPE OF RESEARCH (Listed on previous page) _____

5. PROGRAM FORMAT (Listed on previous page) _____
If you are willing to have your proposal reassigned to Formats 1, 2, 3, please indicate here: Yes _____ No _____

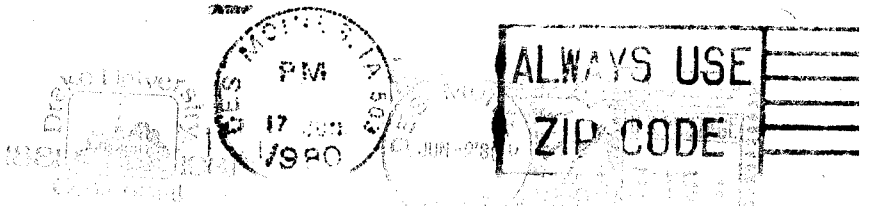
6. EQUIPMENT: Do you need an overhead projector? Yes _____ No _____

7. DISCUSSANT: If you are willing to serve as a Discussant for a session, whether or not you submitted a proposal, please indicate below:

_____ Name _____ Phone

8. NOTE: Each person is limited to the presentation of one paper, but may be named on the program as a co-author of another paper, or serve on a symposium or panel, or as a presider or discussant.

NATIONAL ASSOCIATION FOR
RESEARCH IN SCIENCE TEACHING
READING-LEARNING CENTER
1316 26th STREET
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DES MOINES, IOWA 50311



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