

Organized to improve science teaching—through research

# NARST

# NEWS

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

## P R E S I D E N T

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Department of Science Education  
University of Georgia

### Research and Schooling: A Priority

Enhancing the impact of research on schooling practices continues to be one of our challenges of highest priority. Finding ways to connect the results of creative scholarship to the equally creative craft of managing ideas and students is one dimension of this enhancement. During the fall series of NSTA area conventions, NARST has tried a fresh initiative. With Robert Howe's help, we developed a symposium based on the synthesis of the Research on Effective Schooling. Findings in these studies were based primarily on reading and mathematics achievement criteria. Reflecting on how these findings might have application to the science classroom was the primary focus of these joint NARST/NSTA Symposia. More than 500 NSTA convention participants joined in these symposia as we explored ways the total community of students, teachers, administrators, and parents can work together to strengthen the outcomes of schooling.

With specific reference to science teaching, these "enhancing strategies" include a total community acceptance of academic outcomes as the primary purpose of schools. Linked with this academic expectation were these three key elements:

- a school climate to support academic achievement,
- on-task instruction to facilitate academic achievement, and
- frequent monitoring of progress toward academic achievement with adequate feedback to entice continuity on this progress.

Within the network of a committed community of students, teachers, administrators and parents, enhanced science achievement is a realizable outcome. And here is one example where research can be translated into meaningful guidelines for action.

## Election Results

The following candidates were elected in the most recent NARST election.

President.....Linda R. DeTure  
Rollins College

Executive Board Member.....Ronald Good  
Florida State University

Executive Board Member.....Emmett Wright  
Kansas State University

Research Coordinator.....Roger Bybee  
B.S.C.S.

## Board of Directors Meet

The fall meeting of the Board of Directors was held on December 12, 1985 in New Orleans. The Board accepted the recommendation of the Executive Secretary Search Committee and named Glenn Markle of the University of Cincinnati as Executive Secretary. The five year appointment began on January 1, 1986.

Related to dues and annual meeting registration fees, the Board approved an increase in regular member dues from \$44.00 to \$48.00 per year effective January 1, 1987 and an increase in the registration fee for the annual meeting by \$5.00 effective with the 1987 annual meeting.

The Board of Directors approved a motion to name a Newsletter Editor for a two-year renewable term. A search committee will be appointed and proposals requested from candidates for the editor position during 1986.

Four bylaw changes were recommended to the membership by the Board. The proposed changes are detailed in this Newsletter and must be approved by the membership before they take effect.

The Ad Hoc Committee on International Issues recommended that science educators apply for Fulbright grants as a means to improve the world-wide quality of science education.

In other action, the Board approved the motion to place Dr. William G. Walsh in the status of emeritus

member of NARST.

In recognition of William Holliday's service as Executive Secretary during the past five years, the Board of Directors approved the following resolution:

Whereas; Bill Holliday has served as Executive Secretary of NARST 1981-85, and

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

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

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

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## From the Desk of the New Executive Secretary

The executive secretary of NARST is a service position and I am pleased to have been selected to fill this role. With the support of the NARST officers, the past executive secretary, and my fellow science educators at the University of Cincinnati, the necessary systems and procedures have been put into place to effectively serve you, the members of the Association. Please feel free to write or call me if I can mediate any problems you have with the Association or if you have a need which the Association might be able to satisfy. I may be reached by phone by calling (513) 475-2335. My mail address is:

Glenn Markle, Executive Secretary  
NARST

University of Cincinnati  
Cincinnati, OH 45221-0002

If your travels bring you to Cincinnati, please stop by the University for a visit.

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## Visiting Professorship at Iowa

The science education faculty at the University of Iowa is seeking a visiting, one year, half-time assistant, associate, or full professor for the 1986-87 academic year. Responsibilities may include teaching undergraduate, graduate or inservice science educa-

tion courses; supervising student teachers; advising and directing academic programs; and working with ongoing research efforts. Requires an earned doctorate in science education, K-12 teaching experience, and a strong record of research productivity as evidenced by publication in scholarly and professional journals.

Review of applications will begin April 1, 1986 and continue until the successful candidate is hired. Candidates should send a letter of interest, vita, reprints (as available), transcripts of graduate coursework, and three letters of recommendation to:

Dr. Edward L. Pizzini  
Science Education Selection Committee  
Science Education Center  
459 Van Allan Hall  
The University of Iowa  
Iowa City, IA 52242

The University of Iowa is an equal opportunity/affirmative action employer. Applications from women and minorities are strongly encouraged.

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## Journal of Research in Science Teaching

Guest Editor  
Marcia C. Linn  
University of California, Berkeley

Papers on "The Cognitive Consequences of Technology in Science Education" are solicited for a special issue of the *Journal of Research in Science Teaching*. Reports of empirical investigations, as well as review articles synthesizing important work in the field, are appropriate. Articles addressing the cognitive consequences of programming instruction, those assessing the cognitive benefits of innovative software, and those investigating the effects of the broad range of technological advances, including video disc and graphics tables are encouraged. Researchers may employ innovative methodologies or traditional techniques. Reports on advances in the development of intelligent tutors and on the potential of artificial intelligence for science teaching are desirable.

Submit papers for review by **July 15, 1986**.

Papers should be 20-30 double-spaced pages, including tables and figures. Please follow APA format.

Submit four copies of your paper to:

JRST Special Issue on Cognitive Consequences of  
Technology in Science Education  
Marcia Linn, Guest Editor  
Lawrence Hall of Science  
University of California, Berkeley  
Berkeley, CA 94720

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## 1987 Annual Meeting

The NARST Board of Directors has approved Washington, D.C. as the meeting site for the 1987 annual meeting to be held April 24 through April 27. The NARST meeting will immediately follow the 1987 AERA meeting in Washington.

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## Proposed Bylaws Change

NARST Bylaws require that amendments be prepared by the Policy Advisory Committee and submitted to the Executive Board for approval. Proposed amendments so approved must be mailed along with a ballot to members and approved by a majority of those responding within 30 days of the date of the mailing. Amendments become effective upon acceptance by the membership.

The Policy Advisory Committee presented four amendments to the Board of Directors at the fall Board meeting. All were approved by the Board and are being submitted to the members through this Newsletter. Ballots must be returned not later than May 1, 1986 in order to be counted.

### Article III, Section 3.02-B-VOTES

Change from:

B. VOTES. Only regular members of the Executive Board may cast official votes in the transaction of business. Ex-officio members of the Executive Board may enter fully into all discussions and other matters concerning the business brought before the Board either in formal meetings or by mail or wire transactions, but ex-officio members have no vote in the transaction of business of the Executive Board.

To:

Ex officio members of the Executive Board and all other committees have the same voting rights as other members.

### Article III, Section 3.04-VACANCIES

Change From:

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

To:

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

### Article VI, Section 6.04-PROGRAM COMMITTEE

Change From:

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

To:

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

### Article VI, Section 6.07—AWARDS STEERING COMMITTEE

Change From:

No mention of an Awards Steering Committee.

To:

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

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## Bylaw Amendment Ballot

A vote of "yes" indicates support for the proposed bylaw change while a vote of "no" indicates rejection of the proposed bylaw change. Ballots must be received by May 1, 1986 to be counted. Return ballots to:

Dr. Glenn Markle, Executive Secretary  
National Association for Research in Science Teaching  
University of Cincinnati  
Cincinnati, OH 45221-0002

Article III, Section 3.02-B-VOTES  Yes  No

Article III, Section 3.04-VACANCIES  Yes  No

Article VI, Section 6.04-  
PROGRAM COMMITTEE  Yes  No

Article VI, Section 6.07-  
AWARDS STEERING COMMITTEE  Yes  No

## JOIN NARST NOW!

Join your colleagues from around the world and receive 9 issues of the *Journal of Research in Science Teaching*, over 120 abstracts describing recent research, and 4 issues of the NARST newsletter. Be a part of the world's largest science education research association bridging the gap between researchers and science teachers.

Check the year to the right of your name on the mailing label. NARST records, as of March 1, show the last dues were paid for the year indicated.

NARST 1986 MEMBERSHIP DUES	Please check
Regular (full service)	\$44 _____
Emeritus (full service)	\$30 _____
Emeritus (except journal)	\$0 _____
Student (full service)	\$30* _____
Student (full service, except journal)	\$14* _____
Spouse (full service, except journal)	\$14 _____

\*Students need advisor's signature

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U.S. FUNDS ONLY.

Institution \_\_\_\_\_

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Questions? Call Glenn Markle (513) 475-2335.

RETURN REMITTANCE AND ENTIRE FORM WITH MAILING LABEL ATTACHED TO:

Dr. Glenn C. Markle  
NARST  
University of Cincinnati  
Cincinnati, OH 45221-0002

PLEASE MAKE NECESSARY CHANGES TO THE MAILING LABEL INFORMATION.

## NSTA-CASST Symposia—Criteria for Assessment and Selection of Science Textbooks

At our 1986 NARST meeting in San Francisco there will be a meeting of persons interested in the improvement of science textbooks through research. Since our last NARST meeting, a project (CASST—for Criteria for Assessment and Selection of Science Textbooks) has developed and is directed toward the improvement of science textbooks and related instructional materials. The CASST project has been endorsed by the NARST President and Executive Board and has representatives of NARST, NSTA, AAAS, ASCD, NASBE, CSSO, and AAP on its Advisory Board (free beer to the first person who can identify all of these organizations).

Two NSTA symposia on the CASST project are scheduled for Thursday, March 27 at 12:00 noon to 1:15 p.m. and 1:15 p.m. to 2:15 p.m., both in room 234, Moscone Center. If you are interested in this general line of research and think you might want to become involved with this project, plan to attend these meetings. Also, please let us (Ron Good, Florida State U., Tallahassee, FL 32306 or Jim Shymansky, U. of Iowa, Iowa City, Iowa 52242) know by mail when you can attend an informal NARST meeting on either Saturday (March 29th) or Sunday. The time for this informal meeting will be announced at the end of each NSTA symposium mentioned previously and notice of the meeting also will be made at the NARST conference.



# NARST

University of Cincinnati  
Cincinnati, Ohio 45221-0002

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