

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

James P. Barufaldi
Science Education Center
The University of Texas at Austin

1986 NARST Annual Meeting a Success

Earthquake tremors and cable cars. Chinatown and Fisherman's Wharf. Excellent weather and steep hills. Market Street and Union Square. Seafood and Italian food. Luncheons and tours. NSTA functions and hospitality suites. General sessions and NARST/JRST Awards. Symposia and contributed papers. Poster sessions and meetings. Meetings and more meetings.

The 59th Annual Meeting of NARST was indeed a collage of new images and new ideas, renewing old friendships and fostering new ones. The meeting was a tremendous success. The "City" was a perfect backdrop for the largest NARST conference in history. More than 300 members registered and had opportunities to select from 130 contributed paper sessions, 14 symposia, eight paper sets, two poster sessions, and four general sessions. Our annual meeting again has reinforced the fact that NARST is *the* major organization for research in science teaching and its sponsored journal, *JRST*, is an exemplary vehicle for the dissemination of research findings.

With the support of its active members and the 1986-87 Leadership Team, NARST will continue to fulfill its mission of promoting research in science education at all educational levels and disseminating the findings of this research in ways to improve science teaching.

Thank you for placing your trust in me as I fulfill the responsibilities of this office. I am especially pleased that you have given me this unique opportunity to grow professionally with you.

First Call for Proposals—1987

Anyone desiring to make a presentation at the 1987 NARST Annual Meeting needs to submit a proposal by October 1, 1986.

The annual meeting will take place in Washington, D.C., at the Washington Hilton Hotel from noon, April 23, until evening, April 25. This meeting will overlap with the AERA convention being held April 20-24. Since the hotel will also be used by AERA participants, NARST attendees are encouraged to make reservations early upon receipt of their registration materials this fall. NARST cannot guarantee the availability of room accommodations, especially with the recent increased popularity of the NARST annual meetings (1984—210, 1985—307, 1986—317 registrants).

NARST encourages the presentation of a wide variety of scholarly papers reporting investigations in all aspects of science education. Historical, philosophical, ethnographic, and evaluative studies as well as reports of empirical research and critical reviews are welcomed. Moreover, NARST's 1987 program committee encourages scholarly presentations focusing on the translation of research studies into classroom practices.

An individual may present only one paper but may be listed as co-author of another paper and may also participate in a symposium or as a presider or discussant. For participants unfamiliar with the format and atmosphere at NARST meetings, presenters are strongly encouraged to stimulate discussion. Audiences at NARST meetings want to be active and not passive spectators. All presenters must be registered at the NARST meeting. Overhead projectors and screens will be provided at no charge.

If you have any questions, please contact Linda DeTure, (305) 646-2242, program chairperson, or Glenn Markle, (513) 475-2335, executive secretary.

NARST members and others who wish to make presentations at the meeting may submit proposals in any of the following formats:

1. CONTRIBUTED PAPER. Generally, brief 10- to 15-minute reports of research which are grouped by the program committee into three or four per session. Discussants are usually assigned to these

sessions and presenters will provide discussants with a copy of the paper before the annual meeting, received not later than March 10, 1987.

2. **PAPER SET.** Several related papers originating from a common base of research are presented in one session. This format accommodates from three to five papers that may divide a single report which represents a major research effort. This format allows for common elements of design or approach to be presented only once rather than be repeated by each presenter.
3. **SYMPOSIUM.** A symposium should focus on a specific issue or topic of some importance and present a variety of perspectives. It should provide for interaction among participants with diverse points of view. Proposals should be submitted as a package, listing participants by name on the cover sheet. The summary should include a statement of each presentation, containing such information about the background and interests of each participant as may be relevant. Names on the proposals, however, should be omitted.
4. **RESEARCH METHODS WORKSHOP.** These sessions are 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.
5. **POSTER SESSION.** Informal presentations that allow for discussion with the researcher. A display of graphic materials should be incorporated. These sessions are appropriate for discussing work-in-progress.

MATERIALS TO BE SUBMITTED

1. Two copies of completed Cover Sheet.
(see inside back page of this issue)
2. Six copies of a double-spaced summary, including bibliography, of not more than 6 pages in length. Omit names of author(s). This summary should ordinarily include:
 - a. purpose of study;
 - b. theoretical basis for study;
 - c. procedure of study;
 - d. results or conclusions of study;
 - e. implications for teaching science.

3. Six copies of an abstract of 300-500 words to appear in ERIC Abstracts. Omit name(s) of author(s). Bibliographic references are not appropriate in the abstract.
4. Two 3" x 5" index cards containing typed name, address, and telephone number of author and title of paper.

The above items are to be sent to:

Linda DeTure
Department of Education
and Human Development
Box 2726
Rollins College
Winter Park, FL 32789

Deadline (proposals received): October 1, 1986.

REVIEW OF PROPOSALS

Anonymous review of proposals will be done by two or more members of the program committee. Criteria will include items a-e above. Notification of the decision by the program committee will be mailed by December 10, 1986.

ADVANCE PROGRAM

An Advance Program and conference registration and hotel reservation forms, will be mailed to all NARST members in the late fall.

International Symposium

The 4th International Symposium on World Trends in Science and Technology Education, Kiel, (in English) will be held August 4-12, 1987. Science and Technology Education will be related to the *quality of life* with respect to: (1) the impact on everyday life, (2) responsible decision making on socioscientific issues, and (3) the impact on future careers. The Symposium is a combination of keynote addresses, plenary sessions, paper presentations, working discussion groups, workshops, exhibits, and informal interaction with an international community of science educators. Research and development is the major criteria for acceptance of papers. For further information write: Dr. Kurt Riquarts, IPN, Universitat Kiel, Olshausenstrasse 62, D-2300, Kiel, West Germany.

NARST

**LEADERSHIP
DIRECTORY**

**National
Association
for
Research in
Science
Teaching**

1986-87

National Association for Research in Science Teaching

Officers and Committee Members for 1986-1987

President

James P. Barufaldi
Science Education Center EDB 340
The University of Texas at Austin
Austin, Texas 78712
512-471-7354

President-Elect

Linda R. DeTure
Education/Human Development
Box 2726
Rollins College
Winter Park, Florida 32789
305-646-2242

Immediate Past President

David P. Butts
Department of Science Education
University of Georgia
Athens, Georgia 30602
404-542-1763

Board Members

Patricia E. Blosser (1987)
ERIC
The Ohio State University
Columbus, Ohio 43212
614-422-6717

Jane Bowyer (1988)
Mills College
School of Education
Oakland, California 94613
415-430-2118

Ronald G. Good (1989)
Science Education
Florida State University
Tallahassee, Florida 32306
904-644-1537

Michael J. Padilla (1987)
Department of Science Education
University of Georgia
Athens, Georgia 30602
404-542-1763

John Staver (1988)
University of Illinois at Chicago
School of Education
Chicago, Illinois 60655
312-996-5630

Emmett L. Wright (1989)
Kansas State University
Education
Manhattan, Kansas 66502
913-532-5550

LeRoy Lee
National Science Teachers Association
(1987)
1742 Connecticut Avenue, N.W.
Washington, D.C. 20009
202-328-5800

Editor, Journal of Research in Science Teaching

Russell H. Yeany
Department of Science Education
University of Georgia
Athens, Georgia 30602
404-542-1763

Research Coordinator

Roger W. Bybee (1989)
Biological Sciences Curriculum Study
Colorado College
Colorado Springs, Colorado 80903
303-473-2233

Executive Secretary

Glenn Markle
College of Education
University of Cincinnati
Cincinnati, Ohio 45221-0002
513-475-2335

Interim Editor, NARST News

Ted Fowler
College of Education
University of Cincinnati
Cincinnati, Ohio 45221-0002
513-475-4671

Financial Advisory Committee

Chairman

John Staver (1989)
University of Illinois at Chicago
School of Education
Chicago, Illinois 60655
312-996-5630

Members

Carl Berger (1988)
School of Education
University of Michigan
Ann Arbor, Michigan 48109
313-764-9470

Ertle Thompson (1988)
University of Virginia
Ruffner Hall
Charlottesville, Virginia 22903
804-924-3738

Emmett L. Wright (1989)
Kansas State University
Education
Manhattan, Kansas 66502
913-532-5550

William G. Holliday (1989)
Science Teaching Center
The University of Maryland
College Park, Maryland 20742
301-454-7346

Glenn Markle, ex officio
College of Education
University of Cincinnati
Cincinnati, Ohio 45221-0002
513-475-2335

Committee Charge

The Financial Advisory Committee is responsible for considering the annual budget prepared by the Executive Secretary, approve program expenses, approve publication costs and new ventures, offer advice and recommendations to the Executive Board regarding all financial affairs of the Association, and conduct an annual audit of the financial accounts of the Association.

The members include a chairman (three-year term) three members (with three-year rotating terms), and the Executive Secretary (ex-officio).

Publications Advisory Committee

Chairman

Ronald G. Good (1989)
Science Education
Florida State University
Tallahassee, Florida 32306
904-644-1537

Members

William H. Leonard (1987)
Louisiana State University
219A Peabody Hall
Baton Rouge, Louisiana 70803
504-388-2333

Dan L. McKenzie (1988)
University of South Carolina
Department of Instruction & Teacher
Education
Columbus, South Carolina 29200
803-777-6400

Charles W. Anderson (1989)
327 Erickson Hall
Michigan State University
East Lansing, Michigan 48864
517-355-1725

Russell Yeany, ex officio
Department of Science Education
The University of Georgia
Athens, Georgia 30602
404-542-1763

Committee Charge

The Publication Advisory Committee is responsible for establishing policy concerning the newsletter, the journal, and special publication ventures of the Association; reviewing arrangements with editors of publications; and suggesting changes in yearly publication practices to the Executive Board.

The members include a chairman (three-year term), three members (with three-year rotating terms), and the Editor (ex-officio).

Policy Advisory Committee

Chairman

David P. Butts (1987)
Department of Science Education
University of Georgia
Athens, Georgia 30602
404-542-1763

Members

James P. Barufaldi (1987)
Science Education Center EDB 340
The University of Texas at Austin
Austin, Texas 78712
512-471-7354

Burton E. Voss (1988)
School of Education
University of Michigan
Ann Arbor, Michigan 48109
313-764-8420

Ann C. Howe (1987)
North Carolina State University
Department of Science and
Mathematics Education
Raleigh, North Carolina 27650
919-737-2238

Glenn Markle, ex officio
College of Education
University of Cincinnati
Cincinnati, Ohio 45221-0002
513-475-2335

Committee Charge

The Policy Advisory Committee is responsible for annually reviewing the Bylaws, changes in structure or orientation of the Association, and reviewing new activities or ventures of the Association.

Election Committee

Chairman

David P. Butts (1987)
Department of Science Education
University of Georgia
Athens, Georgia 30602
404-542-1763

Members

Ronald D. Anderson (1987)
C.B. 249
School of Education
University of Colorado
Boulder, Colorado 80309
303-492-7738

Lowell J. Bethel (1987)
Science Education Center EDB 340
The University of Texas at Austin
Austin, Texas 78712
512-471-7354

Committee Charge

The nominating committee is responsible for establishing the slate of officers for each election four months prior to the date of the Annual Meeting, making arrangements for preparation and distribution of ballots three months prior to the date of the Annual Meeting, tabulating election results, notify candidates of the outcome of the election a month prior to their assuming office, announcing election results at the Annual Meeting, and arrange for installation of new officers and transfer of the responsibilities of the Executive Board for the Association.

The membership of this committee shall consist of the immediate Past President as chairman and two members with one-year terms.

Research Committee

Chairman

Roger W. Bybee (1989)
Biological Sciences Curriculum Study
Colorado College
Colorado Springs, Colorado 80903
303-473-2233

Members

Jane Bowyer (1988)
Mills College
Education
Oakland, California 94613
415-430-2118

Thomas R. Koballa, Jr. (1988)
Science Education Center EDB 340
The University of Texas at Austin
Austin, Texas 78712
512-471-7354

Joseph D. Novak (1987)
Cornell University
103 Stone Hall
Ithaca, New York 14853
607-256-2267

Glenn Markle, ex officio
College of Education
University of Cincinnati
Cincinnati, Ohio 45221-0002
513-475-2335

Committee Charge

The Research Committee is responsible for preparing yearly reviews of research in science education, working closely with ERIC Center and recommending needed areas of research, research symposia, and training programs.

The membership of this committee consists of the chairman and three members with two-year rotating terms. The Executive Secretary is an ex-officio member of the committee.

Awards Committee

Awards Steering Committee

Chairman

Michael J. Padilla (1988)
University of Georgia
Department of Science Education
Athens, Georgia 30602
404-542-1763

Members

Patricia E. Blosser (1988)
The Ohio State University
ERIC Center
Columbus, Ohio 43212
614-422-6717

Richard R. Tolman (1989)
Box 72 McKay
Brigham Young University
Provo, Utah 34602
301-378-3177

Frank E. Crawley (1989)
Science Education Center EDB 340
The University of Texas at Austin
Austin, Texas 78712
512-471-7354

Joy S. Lindbeck (1987)
362 Keith Avenue
Akron, Ohio 44313
216-375-6966

Peter A. Rubba, Jr. (1987)
Room 160 Chambers Building
Pennsylvania State University
University Park, Pennsylvania 16802
814-865-4700

John R. Staver (1988)
University of Illinois at Chicago
School of Education
Chicago, Illinois 60655
312-996-5630

Glenn Markle, ex officio
College of Education
University of Cincinnati
Cincinnati, Ohio 45221-0002
513-475-2335

Awards Sub-Committee

A. JRST Award

Chairman

John R. Staver (1989)
University of Illinois at Chicago
School of Education
Chicago, Illinois 60655
312-996-5630

Members

Earl J. Montague (1988)
Science Education Center EDB 340
The University of Texas at Austin
Austin, Texas 78712
512-471-7354

Piyush Swami (1988)
College of Education
University of Cincinnati
Cincinnati, Ohio 45221-0002
513-475-3561

Eugene L. Chiappetta (1987)
University of Houston
Education
Houston, Texas 77004
713-749-1624

Claudia B. Douglass (1987)
Central Michigan University
Department of Biology
Mt. Pleasant, Michigan 48859
517-774-3412

Willis J. Horak (1987)
University of Arizona
College of Education
Tucson, Arizona 85721
602-626-1019

Julia V. Clark (1988)
C & I
Texas A&M University
College Station, Texas 77843
409-845-7088

Joy S. Lindbeck (1987)
University of Akron
Education
Akron, Ohio 44304

Pat Obenauf (1988)
604-P Allen Hall
West Virginia University
Morgantown, West Virginia 26506
304-293-3442

Donald R. Daus (1988)
UMC 28,
Utah State University
Logan, Utah 84322
801-750-1130

Lynn Talton (1987)
South Carolina Department of
Education
Columbia, South Carolina 29205

B. NARST Awards

Chairman

Patricia E. Blosser (1987)
The Ohio State University
Science and Mathematics Education
Columbus, Ohio 43210-1172
614-422-6717

Members

Rodney L. Doran (1988)
553 Blady Hall
SUNY at Buffalo
Amherst, New York 14260
716-636-2461

Mary M. Atwater (1988)
Atlanta University
223 Chestnut St. S.W.
Atlanta, Georgia 30314

Lowell J. Bethel (1987)
Science Education Center EDB 340
The University of Texas at Austin
Austin, Texas 78712
512-471-7354

Ron Bonnstetter (1988)
211 Henzlik Hall
University of Nebraska
Lincoln, Nebraska 68588-0355
402-472-2443

William B. McIlwaine (1987)
Millersville State College
Millersville, Pennsylvania 17551
717-872-3390

Peter A. Rubba, Jr. (1987)
Pennsylvania State University
Room 160 Chambers Building
University Park, Pennsylvania 16802
814-865-4700

Mary Westerback (1988)
54 Smith St.
Glen Head, New York 11545
516-671-0426

Richard L. Williams (1987)
University of Victoria
Faculty of Education
Victoria, British Columbia
Canada V8W 2Y2
604-721-7759

Committee Charge

The Awards Steering Committee is responsible for recommending policy for establishment of awards for the Association including the nature of the awards, the criteria for the awards and the award's selection process.

The Awards Steering Committee consists of the chairman and six members on three-year rotating terms. Additional subcommittee members may be appointed on a two-year basis as needed for the review/selection process. The Executive Secretary is an ex officio member of this committee.

Program Committee

Chairman

Linda R. DeTure
Education/Human Development
Box 2726
Rollins College
Winter Park, Florida 32789

Members

F. Gerald Dillashaw (1987)
Bradley University
College of Education
Peoria, Illinois 61625
309-676-7611, ext. 267

Thomas R. Koballa, Jr. (1987)
Science Education Center EDB 340
The University of Texas at Austin
Austin, Texas 78712
512-471-7354

Joseph P. Riley (1987)
University of Georgia
Department of Science Education
Athens, Georgia 30602
404-542-1763

Linda Crow (1988)
Houston Community College System
Houston, Texas 77007
713-868-0758

Joel E. Bass (1988)
Sam Houston State University
Huntsville, Texas 77340
409-294-1111

Robert L. Shrigley (1988)
168 Chambers Bldg.
The Pennsylvania State University
University Park, Pennsylvania 16802
814-865-5433

Roger W. Bybee, ex officio
Biological Sciences Curriculum Study
Colorado College
Colorado Springs, Colorado 80903
303-473-2233

Glenn Markle, ex officio
College of Education
University of Cincinnati
Cincinnati, Ohio 45221-0002
513-475-2335

Committee Charge

The Program Committee is responsible for establishing the theme and format for the Annual Meeting, arranging for special speakers and symposia, and evaluating abstracts for contributed papers, and the evaluation of the Annual Meeting. (A local arrangement committee may be established if desired.)

The membership of this committee consists of the President-Elect as chairman, six members on two-year rotating terms and as ex-officio members, the Research Coordinator and the Executive Secretary.

NARST Archivist

Paul Joslin
Drake University
Des Moines, Iowa 50311
515-271-3991

Ad Hoc Committee on International Issues

Chairman.

Glen Aikenhead (1987)
University of Saskatchewan
Faculty of Education
Saskatoon, Saskatchewan
Canada S7N 0W0
306-343-3892

Representative to the Advisory Board

Investigations in Science Education

David R. Stronck (1987)
Department of Teacher Education
California State University
Hayward, California 94542
415-881-3385

Representative to the Triangle Coalition

Chairman

Robert W. Howe (1987)
Science and Mathematics Education
The Ohio State University
Columbus, Ohio 43210-1172
614-422-6717

Members

Pamela Fraser-Abder (1987)
Faculty of Education
University of the West Indies
St. Augustine, Trinidad, West Indies
814-66-31364

Members

Jane Bowyer (1987)
Mills College
School of Education
Oakland, California 94613
415-430-2118

William R. Zeitler (1987)
Department of Science Education
University of Georgia
Athens, Georgia 30602
404-542-1763

Barry Fraser (1987)
Western Australia Institute of
Technology
Education
South Bentley, Western Australia 6102
09-350-7975

Karl Krey (1987)
Institute for Science Education
Olshausenster 40-60
D-2300 Kiel
Federal Republic, Germany

Arthur White (1987)
The Ohio State University
ETP: Science and Mathematics
Education
Columbus, Ohio 43210
614-422-4121

Representative to the International Council of Associations for Science Education (ICASE)

John E. Penick (1987)
Science Education
789 VAN
University of Iowa
Iowa City, Iowa 52242
319-353-4922

John E. Penick (1987)
Science Education
789 VAN
University of Iowa
Iowa City, Iowa 52242
319-353-4922

Representative to the American Association for the Advancement of Science

J. David Lockard (1987)
The International Clearinghouse
University of Maryland
College Park, Maryland 20742
301-454-4028

Deyanira R. Barnett (1987)
Apartado 4196
Panama 5
Republic De Panama
64-0582/26-2424

NARST News Publication

NARST News will be published and mailed to members on the first of the month of March, June, September, and December. Contributions need to be received one month before the publication date. Send contributions to the interim editor of NARST News:

Dr. Thaddeus W. Fowler

NARST News

College of Education

University of Cincinnati

Cincinnati, OH 45221-0002

First priority will be given to regular NARST News features and other articles will be published as space permits. The publication of the next edition this September will be delayed somewhat to allow receipt of current contributions.

NARST Paper Awards

1986 NARST Outstanding Paper Awards

"Educational Productivity in Science Education: Secondary Analysis of National Assessment in Science Data"

Barry J. Fraser, Western Australia Institute of Technology

Herbert J. Walberg, University of Illinois-Chicago Circle

Wayne W. Welch, University of Minnesota

1986 NARST Practical Applications Paper

(in alphabetical order) by author(s)

"The Role of Cognitive Factors in Chemistry Achievement"

Sarah Chadran, Western Australia Institute of Technology

David F. Treagust, Western Australia Institute of Technology

Kenneth Tobin, Western Australia Institute of Technology

"Using Short Forms of Several Classroom Environment Scales to Assess and Improve Classroom Psychosocial Environment"

Darrell L. Fisher, Tasmanian College of Advanced Education

Barry J. Fraser, Western Australia Institute of Technology

"Research Interests of Secondary Science Teachers"

Dorothy Gabel, Indiana University

Stanley L. Helgeson, The Ohio State University

Joseph Novak, Cornell University

"The Development and Validation of a Test of Basic Process Skills"

Michael J. Padilla, University of Georgia

Linda Cronin, University of Georgia

Meghan Twiest, Bibb County Public Schools (GA)

Nominations Requested—

Distinguished Contributions to Science Education Research Award

Deadline: January 15, 1987

The National Association for Research in Science Teaching seeks to improve Science Education through research. To this end the Association desires to recognize and reward individual(s) who have made significant contributions to Science Education through research. Contributions may be of several types, including but not limited to empirical, philosophical or historical research, evaluative studies, policy related research and studies reflecting new techniques to be applied in research. To be considered, an individual should have contributed over a period of many years (at least 15) and should be considered at the pinnacle of his/her career.

The award will be made to an individual who has over a period of many years (at least 15):

1. made a continuing contribution(s) to Science Education through research;
2. provided notable leadership in Science Education through research; and
3. had a substantial impact on Science Education through research.

This award is intended to be the highest recognition NARST can bestow for contributions to Science Education through research. The award will be bestowed only when a superior candidate has been identified by the awards committee.

To apply, a nominator or candidate should submit 10 copies of the following:

1. a cover letter, not to exceed 5 pages in length, describing the nature of the contributions of the individual, including specific documentation as to why these contributions are considered outstanding and substantive;
2. up to five letters of support, each not to exceed two pages in length, which provide evidence of extraordinary contributions of the individual; and

-
3. a curriculum vita including a complete list of publications and accomplishments.

Dr. Michael J. Padilla, Chairperson
NARST Awards Committee
Department of Science Education
University of Georgia
Athens, GA 30602

Submissions Invited—

1986 NARST Outstanding Paper and Practical Application Award

Deadline: September 12, 1986

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

The NARST Awards Committee invites all persons who presented papers at the 1986 meeting in San Francisco to submit ten (10) copies of the complete paper and an abstract (a copy of the abstract should accompany each paper) for consideration for the Outstanding Paper Award. These awards will be presented at the next NARST meeting in Washington, D.C.

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

Please send, by September 12, 1986, the ten (10) copies of your paper and abstract and a stamped self-addressed post card (which will be returned to you upon receipt of your papers) to:

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

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

USIA Grants Available

Want to combine business with pleasure? Want to get more of both and have someone pay you for it at the same time? Try the United States Information Agency as a beginning.

The USIA University Affiliation Program provides grants for supporting exchanges between American universities and those abroad. These \$60,000 grants are designed to promote relationships between institutions. Such relationships include cross-cultural research, teaching, or consulting work. But, they must truly be exchanges. USIA would like to see visiting faculty from foreign institutions teaching at their American host institution, doing research in American classrooms, and becoming more familiar with the American educational system and way of life.

While these are small grants, they go a long way. The grant may be used only for participant support and travel and no supplies, incidentals, or indirect costs are allowed. As an example, the grant linking the University of Iowa with a Teachers College in Indonesia will allow ten Iowans and five Indonesians to make exchange visits, teaching for one to four months. We are finding it a very successful program.

For more information, write to the United States Information Agency, Washington, D.C. 20547.

Bylaw Amendments Approved by Membership

Four bylaw changes approved by the Board of Directors at the fall, 1985 Board meeting were approved by a majority of the members responding to the spring balloting. As a result, Article III, Section 3.02-B-Votes was changed to give ex-officio members of the Executive Board and all other committees the same voting rights as other members; Article III, Section 3.04-Vacancies was changed so that in the event 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 would then serve two years); Article VI, Section 6.04-Program Committee was changed so that the program committee includes the President-Elect as the chairperson, six members with two-year rotating terms, the Research Coordinator (ex-officio), and the Executive Secretary (ex-officio); and Article VI, Section 6.07-Awards Steering Committee was added to establish an Awards Steering Committee composed of the chairperson and six members plus the Executive Secretary (ex-officio) and charged with the responsibility of recommending policy for establishing awards including the nature of the awards, the criteria for the awards, and the awards selection process.

COVER SHEET

1987 NARST ANNUAL MEETING — WASHINGTON HILTON HOTEL, WASHINGTON, D.C.

(Please type requested information)

1. TITLE OF PAPER OR SYMPOSIUM _____

2. FIRST AUTHOR PRESENTING PAPER

Name _____ Phone _____

Institution _____

Address (including zip or postal code) _____

3. NAME AND INSTITUTIONAL ADDRESS OF CO-AUTHOR(S), AND, IF APPROPRIATE, SUB-TITLES

4. SIGNATURE _____

5. SPECIAL INSTRUCTIONS OR COMMENTS _____

PLEASE NOTE—If accepted, your session will appear in the program as you have listed it above. Have you included all the essential information?

Nominations for NARST News Editor

Nominations are being sought for editor of the *NARST News*. The editor is appointed by the Board for a two-year renewal term beginning May, 1987. The position carries the responsibility for the preparation of four issues of the newsletter each year. Each prepared issue is to be sent to the Executive-Secretary who is responsible for printing and mailing. The yearly budget for *NARST News* is \$3,000. Twice yearly a brief report needs to inform the Board of the status and development of the newsletter and suggestions for newsletter policies. The expected time commitment is approximately a three-credit teaching equivalent.

Each issue of *NARST News* should include communication from the NARST Executive (President's message, Executive-Secretary's reports, call for papers, Board decisions) and columns (short pieces by NARST members) that would make the newsletter a valuable and rich information source. Short summaries of conferences attended by NARST members could be included such as the Brisbane International Symposium on World Trends in Science Education or the First Inter-American Seminar on Science Education. *NARST News* should serve as a bulletin board to facilitate collaborative research. Titles of non-American publications related to research in science teaching might be published. Committees might solicit feedback on issues under discussion or conduct surveys. News on research findings and job placement information should be published. The editor would need to take the initiative in encouraging wide representation and participation with the newsletter.

Nominations, including proposals for newsletter direction, format and content, should be sent to James Barufaldi, Science Education Center, EDB 340, The University of Texas at Austin, Austin, TX 78712 by September 30, 1986. The ad hoc search committee will prepare a recommendation to the Board by November 15, 1986.

INTERNATIONAL ISSUES

NARST Cosponsors Caribbean Research Conference

The first Regional Consultation on Research in Science Education was held at the Trinidad Hilton in Port of Spain on February 12 to 15, 1986. Eleven countries were represented including Antigua, Barbados, Belize, Costa Rica, Grenada, Guyana, Jamaica, Panama, Trinidad, The United Kingdom, and the United States. The conference was organized by Pamela Abder and Art White and was jointly sponsored by The University of the West Indies and NARST. The more than 60 participants in the conference shared in rich program of workshops, symposia, research presentations and meaningful social events. As noted by Art White,

"The consultation was focused on the sharing of research and development information, the identification of the common needs and goals within these countries, and the strategies for facilitating collaborative efforts to improve the teaching and learning of science and mathematics."

The Second Regional Consultation is now being planned for January 1987 in San Jose, Costa Rica. Art White is coordinating this effort. Interested NARST members are invited to contact Art at Ohio State for further details.

NARST

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