

NAPST

Newsletter

QUARTERLY NEWSLETTER OF THE NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

Vol 6 FALL 1964

Joseph Novak, Secretary

Frederic Dutton, President

Philip G. Johnson, Editor
for the Fall Issue

Here is your Newsletter for Fall 1964. The editor appreciates very much the help provided by members who sent in news items and the officers who prepared announcements. A scanning of the news will convince anyone that NAPST members are busy. To strengthen the hands of the editor for the Spring Newsletter, may I urge you to keep Milton Pella informed about your activities.

REPORT OF THE NOMINATING COMMITTEE

The Nominating Committee composed of John H. Woodburn, Chairman, Arnold Lahti and Sylvan Mikelson, members, has prepared the slate of nominations for your consideration.

for President Elect:

Ralph P. Frasier
H. Craig Sipe

Emporia State Teachers College (Kan.)
George Peabody College (Nashville)

for Secretary-Treasurer:

Joseph D. Novak

Purdue University

for Research Coordinator:

Lloyd K. Johnson

U. S. Office of Education

for Members-at-Large of the Executive Committee:

Robert R. Buell
John M. Mason

University of Toledo
Michigan State University

You should weigh these nominations with care. If you wish to add to those who are nominated, you can do so by following the procedures spelled out in the By-Laws of our Association. Election procedures are specified in the Constitution.

THE CHICAGO CONVENTION

Note that the 1965 Convention will be held in Chicago on February 13-15. That means the meetings will begin on Saturday at 9:00 in the morning and continue through Monday at 5:00 p.m. The banquet will be on Sunday evening at 6:00 p.m. Milton O. Pella will be developing a top quality program and you should be there to make it a notable Convention. The Pick-Congress Hotel at 20 North Wacker Drive is the exact location. Preregistration material will be sent in January.

PLANS DEVELOPING FOR ASSOCIATE MEMBERSHIP

Cy Barnes and Merwin Oakes are drafting an amendment to the by-laws of NARST which, if approved by the membership, would provide for associate membership in the association. The amendment will have to have approval by the Board and published for the membership to study before it can come up for a vote. (See Last Pages)

AAAS MEETS IN MONTREAL

Most NARST members will be interested in the meetings of the AAAS related groups to be held in Montreal following Christmas. Section Q is always of high interest but so are the sessions of the teaching societies. Watch for advance information about the program details from the several teaching societies and from the magazine SCIENCE. This will be an interesting international meeting to attend.

NOMINATING NEW MEMBERS

NARST members should be alert to nominate persons to membership in our Association. Membership blanks can be secured from the Secretary, Joseph Novak, Department of Biology, Purdue University, Lafayette, Indiana. Let us all cooperate in building a stronger and greater NARST. One application form is enclosed.

A MESSAGE FROM OUR RESEARCH COORDINATOR

During the past several months a number of abstracts of research in science education have been received by the Coordinator. It seems reasonable to assume, however, that many studies are still unreported. Your cooperation is needed to assure a complete collection of research completed since July 1963.

One of the concerns voiced repeatedly by the committee chairmen in their presentations at the annual meetings has been

that some of the research does not get into the literature or the NARST collection. If you, your students, or colleagues need abstract forms, they can be obtained from Dr. Lloyd K. Johnson, Specialist for Science, U.S. Office of Education, Washington D.C. 20202. Please send your requests immediately and complete the abstract at your first opportunity. The abstracts are also to be sent to Dr. Johnson in the U. S. Office of Education. He, in turn, will bring them to the committees that review the research studies for our benefit and for publication.

NARST PROCEDURE FOR REVIEW OF PUBLISHED RESEARCH

The procedure outlined below has developed from the experience of the Committee working on the collection and analysis of research. The plan is proposed as a way to improve the effectiveness of collecting and abstracting the published research. The Committee wants to enlist the assistance of the NARST members in screening the literature and abstracting the science education studies.

The journals listed below have been searched by one or more of the sub-committees during the past biennium. Please examine the list and add other journals that in your judgment are likely sources for articles that report science education research. The Committee and its sub-committees need help to assure high quality abstracts and complete coverage for the next review of research. Which journal or journals would you be willing to search with care and to abstract pertinent reports of research?

The job is rather direct. You agree to screen each issue (July 1963 to July 1964) for reports of science education research studies. You agree to prepare a 300 word abstract for each research study that you find.

Would you first of all add journals to the list given below. Would you also send a card to Dr. Lloyd K. Johnson in the U.S. Office of Education, telling him of your willingness to screen one or more journals and to prepare abstracts. Final arrangements for abstracting will then be made by correspondence, in the near future.

The Journals presently being screened and abstracted are;

- American Biology Teacher
- American Journal of Physics
- American School Board Journal
- AV Communications Review
- Bulletin, National Association of Secondary School Principals
- California Journal of Educational Research
- Educational and Psychological Measurements
- Journal of Applied Psychology
- Journal of Chemical Education
- Journal of Educational Research

Journal of Experimental Education
 Journal of Research in Science Teaching
 Journal of School Health
 Review of Educational Research
 School Science and Mathematics
 Science
 Science Education
 The Science Teacher
 Science and Children
 Teachers College Journal

If you did not send in an item for the Newsletter before October 15, it could not be included in this issue. Any items received after October 15, will be sent to Milton O. Pella who is responsible for the spring issue. If you have put the form aside, dig it out and complete it. Send it on to Milt so that he will have some interesting news for the next issue.

-----NEWS FROM MEMBERS-----

Dorothy Alfke, Associate Professor at Pennsylvania State University (University Park) is teaching elementary science methods to graduate and undergraduates.

George Alterman is Professor of Science and Chairman of the Science Department at Queensborough Community College At Bayside, New York. In addition to the administration of the Department and the evening division of the College, he has helped to develop plans for a new science building which will be constructed during the next year or two.

Thomas G. Aylesworth, Senior Editor, Current Science, is located at Wesleyan University at Middletown Connecticut. In addition to writing and editing for Current Science he is teaching graduate science education classes.

Lloyd M. Bennett is Assistant Professor of Education at Texas Woman's University in Denton, Texas. He is teaching Secondary education courses as well as elementary science methods courses. He is involved in research and also hopes for the approval of new research proposals to expand the research activities.

Muriel Beuschlein is Professor of Science Education and Chairman of the Department of Natural Sciences at Chicago Teachers College. Here she teaches methods courses for elementary teachers, coordinates in-service lectures and field trips and directs a department of 17 faculty members. She serves as the managing editor of the American Biology Teacher.

Clarence H. Boeck, Professor of Education at the University of Minnesota (Minneapolis) is head of the Science Department of the University High School. He teaches courses in methods of teaching science. He is currently involved in the development of an advanced course in science for high school seniors.

Julian R. Brandou, Assistant Professor in Michigan State University (East Lansing) is teaching physical science as well as science education courses. He is involved in two workshops in elementary school science for the American Schools of Monterey and Mexico City, Mexico. He is also involved in the development of film clips and single concept films for secondary school science, in cooperation with their audio-visual Department.

Charles B. Breedlove is Coordinator of Science Education in the Department of Physics of Eastern Michigan University (Ypsilanti). He is teaching physical science and working on several curriculum committees. He is also teaching a methods course for the physical science area. His work will include visiting high schools in the area and helping to facilitate good cooperative working relationships.

R. R. Buell, Professor of Science Education at the University of Toledo, is involved in undergraduate and graduate classes in science education and in the operations of the Science-Mathematics Curriculum Research Center, where he directs the NDEA Fellowship Program in Science Education. He is also studying the optimum use of 8mm single concept films and overhead projectuals of analytical drawings in all the sciences. He is also working in some county-wide 10-week institutes for upgrading science work in country schools and in consolidated districts.

Arthur Carin is Assistant to the Chairman of the Department of Education in Queens College at Flushing, New York. He is responsible for administration of teacher education and teaches courses in science education. He has been conducting in-service workshops for teachers in Floral Park and teaching science courses in Adelphi University (Garden City). A professional textbook for elementary school teachers on Teaching Science through Discovery will be published this fall as a result of his writing efforts. Charles Merrill Book Company will be the publisher.

Robert J. Chinnis, Assistant Professor of Education at American University in Washington, D.C. 20016, reports that he teaches undergraduate and graduate courses on science for elementary school teachers. He also supervises student teachers and conducts a graduate research seminar. He is working on a graduate program in science education leading to an Ed. D. Degree for his University.

H. William Crall, Professor of Biological Sciences at McComb, Illinois 61455, teaches a generous assortment of biology courses and supervises student teachers in the biological sciences in the campus school. He is active in a number of state and regional groups and is working on manuscript for a book on teaching secondary school biology. This past summer he travelled in Europe.

William W. Day, Director of Science Education at Ferris State College in Big Rapids, Michigan 49307, teaches courses in science education, supervises student teachers and directs the science education program. He is active in curriculum development work.

Clarence E. Diebel, Professor of Science at Southern Oregon College in Ashland, Oregon 97520, is busy teaching and supervising laboratory work in the physical science survey course of the College. He is helping to implement the new Oregon State requirements for prospective teachers. He would like to receive suggestions for making and using overhead projection transparencies in a college physical science survey course.

Shepard M. Faber is Associate Professor of Natural Science at the University of Miami in Coral Gables, Florida. He teaches a general education physical science course. He has completed a study guide for physical science and is writing a textbook for the physical science course.

Thomas P. Fraser, Professor and Head of the Department of Science Education at Morgan State College in Baltimore, Md. 21212, is providing the leadership for developing a subject oriented master's degree for science teachers. He has also assisted other colleges in developing science education programs and has directed a series of NSF supported institutes for science and mathematics teachers.

Marjorie Gardner is visiting Lecturer at the University of Maryland, College Park, and teaches methods courses in science and supervises student teachers. She is also associated with the Science Teaching Center and helps with the AAAS Clearing House on Curriculum and the NSTA Review Committee. She was a participant in the Earth Science Curriculum Project writing conference at Boulder during the past summer and reports that experimental materials are being used in 75 test schools during the current school year.

Richard E. Haney is Assistant Professor of Education at the University of Wisconsin branch in Milwaukee. He teaches elementary and secondary school science methods courses, serves as science consultant to the campus elementary school and supervises student teachers.

William D. Hedges, Director, Division of Educational Research at the University of Virginia (Charlottesville), is completing a 2 1/2 year U. S. Office Cooperative Research Project on A Comparison of Three Methods of Teaching Elementary School Science Involving Programed Learning. The performance by Students of simple science experiments at such times as they have

completed particular frames of the program is an aspect of the research.

Kenneth F. Jerkins completed the Ph. D. degree in Science Education at Purdue University and is now Head of Science Education, Tennessee A & I University, Nashville.

Kenneth J. Jones is Lecturer on Education at Harvard University. He is involved in research design, data analysis and computer programming.

James L. Koevenig, Associate Professor of Botany and Biology at the University of Kansas (Lawrence), is teaching general biology and elementary botany, serving as advisor to approximately 30 freshman and directs the graduate research of a number of students in the botany area. He is involved in constructing a diagnostic examination for help in the placement of in-coming freshmen. His own research activities are on the Myxomycetes.

Paul Klinge is Associate Professor of Education in the School of Education of Indiana University (Bloomington) where he coordinates school science programs, manages the research projects of the University Foundation and serves as associate director for the Research Applications Center. His work is entirely administrative.

C. L. Koelsche, Professor of Science Education at the University of Georgia (Athens) 30601, serves as director for the NSF supported Institute Programs of the University and also directs the doctoral program in Science Education. He has 1/3 of his time allocated for research. His current research is a follow-up of Academic Year Institute participants. He recently completed a research study on Scientific Literacy. The report is available for 25¢.

Eugene C. Lee is Assistant Professor of Science Education at Emory University in Atlanta, Georgia. He is teaching undergraduate and graduate level science education courses both elementary and secondary school teachers. He is also giving an in-service course on BSCS Biology and helping with a revision of the Georgia State Science guide.

Vernon C. Lingren, Professor of Education and Director of the Office of Undergraduate Study of the School of Education, University of Pittsburgh, 15213, teaches a course in Higher Education and is responsible for supervision of the secondary school science student teachers. He is interested in receiving information about teacher education curricula for the preparation of high school science teachers.

George G. Mallinson, Dean of Graduate Studies at Western Michigan University (Kalamazoo) has submitted a report to the officers of NARST summarizing the work of the Cooperative Committee on the Teaching of Science and Mathematics of the AAAS for the period February 1962 to February 1963. Many challenging recommendations

are contained in this report. Plan to attend the 1965 NARST Convention and to participate in the discussion of the recommendations.

John J. Montean, Associate Professor of Education and Coordinator of Science Education at the University of Rochester, New York 14627, is responsible for the leadership of the science education work at that University. He also serves as consultant to the State of New York for two special projects and he is also a consultant to some school systems on their science programs. His relationship to an experimental study of team teaching of biology in six school districts is of special interest to NARST members.

Pearl A. Nelson, Associate Professor of Education in the School of Education of Boston University, devotes much of her time to teaching elementary school science to undergraduate and graduate students as well as supervising student teachers in elementary education. She has acted as consultant to several science programs in Massachusetts and offers extension courses at selected locations. She taught at the University of Maine (Orona) this past summer.

Jerry J. Nisbet is Professor of Biology at Ball State College in Muncie Indiana 47306. He teaches a number of biology courses including a methods course for biology teachers. In such institutes they include observation of a class of high school students being taught BSCS biology by an experienced teacher.

Joseph D. Novak, Purdue University has co-authored a book with S. N. Postlethwait and H. Murray describing some of the work being done in biology teaching at Purdue University and suggesting innovations in teaching. Published by Burgess and Company, An Integrated Experience Approach To Learning will be available December, 1964.

Milton O. Pella, President of NARST, has returned from another tour of duty outside the USA. He served as Science Education Consultant to the American University in Beirut. Milt. has some very interesting observations so you should get him to **open up** on the subject at the Chicago Convention in February.

S. Ralph Powers writes from 90 Adams Ave. Haworth, New Jersey, that after 12 years of retirement he and Mrs. Powers are enjoying life with just enough to do and pleasant memories of activities related to NARST. He hopes that the activities of current active members of NARST will leave them with equally pleasant memories of accomplishments and friendly associations. Members of NARST wish to extend to Ralph and Mrs. Powers their kindest regards. Had it not been for the astute leadership of Ralph there would not have been as strong a profession of science education as we find today.

Fred T. Progger is Professor of Science at Trenton State College in New Jersey 08625. Here he teaches physics, astron-

omy and science methods courses. He also supervises science student teachers. He moved into a new home during the past summer.

M. B. Rowe is Lecturer in the School of Education at Stanford University. Her work will be almost entirely devoted to research on context-learning. She is looking for any and all literature related to this subject.

James A. Rutledge is Professor of Secondary Education at the University of Nebraska (Lincoln) 68508. He teaches the methods courses, advises the undergraduates who plan to become teachers of science and directs master's and doctoral candidates in Education. He also serves as co-director for the NSF supported Visiting Scientist Program of the Nebraska Academy of Science.

Julius Schwartz is Consultant in Science in the Curriculum Bureau of the New York City Schools. His work is research and development related to the science program for the elementary school of New York City. They are now preparing a second edition of their K-6 Science Guide and they are developing a new program for science at kindergarten levels. He has also been busy preparing a 3rd revision of Elementary School Science and How to Teach It with Glenn Blough.

Joseph L. Shoemaker is Professor of Science at Colorado State College (Greeley) 80631. He teaches chemistry and physics in the College High School and he also teaches science education. He has been president of the Colorado Science Teachers Association for a 2-year term and is now serving on the Colorado State Board of Teacher Certification.

John S. Shrader is Professor of Science Education in the Division of Science of Central Washington State College (Ellensburg). He teaches elementary and secondary science education including a special laboratory course for elementary teachers. He is active in science education workshops. All this after being away for a year's leave as Interim Professor at the University of Florida.

Harold S. Spoilman, Associate Professor of Education at City University of New York has found time during a busy schedule of teaching and service to prepare a three-volume series of an Electronics Sourcebook for Teachers. These volumes will be published in January 1965, by John F. Rider Publisher, Inc.

Ward L. Sims is Associate Professor of Elementary Education at the University of Nebraska (Lincoln) 68508. He teaches science methods to undergraduates and conducts a graduate seminar in elementary school science. He also supervises student teachers. He is involved in televising a science methods class for undergraduates.

H. Craig Sipe is Professor of Physics and Science education at George Peabody College for Teachers in Nashville, Tennessee 37203. He teaches physics, a science methods class, and works with graduate students in science education. He directs NSF supported institutes during the summer and is engaging in research on concept development. He is also writing in the field of elementary science education.

Herbert A. Smith is now Director of Teacher Education and Head of the Department of Education at Colorado State University (Fort Collins). He is trying to build a better coordinated institutional program in teacher education while also building a new home for the Smith clan. He and the family are happy to find all members of the immediate family all within the State of Colorado.

John Urban, Professor of Science at State University College at Buffalo, writes that his major work is teaching biological sciences since he retired from the chairmanship of the Department after 14 years of such service. He is now devoting himself to teaching and writing. He reports that they have just occupied a new \$2,330,000 Science Building and they are planning another building.

William J. Walsh is Associate Professor at Michigan State University (East Lansing). He gives instruction in science education and provides consultant help along with help on research. He has been especially involved in providing special consultant help to American schools in Mexico.

Nathan S. Washton is Professor and Coordinator of Science Education in Queens College of the City University of New York in Flushing. He is developing a six year program for in-service education of science teachers and experimenting with a new intern program for science teachers. He is also serving as Executive Director of the American Science Curriculum Foundation.

Honor Webb, retired Professor of Science Education at George Peabody College for Teachers, Nashville, Tennessee, approves of the Newsletter and wants to be remembered to friends in NARST. He finds it very difficult to get around and this hinders him from attending meetings. While Honor is too modest to say much about himself, members of NARST should read Growth of a Philosophy; Honor A. Webb written by Jacob W. Shapiro and available from the Peabody Book Store for \$2.50. This book reporting the articles written, the addresses given, the graduate students who were directed in their research and other activities, can be a record of dedicated service for younger members of NARST to try to equal. Best wishes to you and yours, is our wish to Honor A. Webb. His address is 245 Blue Hills Drive, Nashville 14.

Joseph Zaffaroni, Associate Professor at Pennsylvania State University, University Park, Pa., is teaching courses in elementary school science education to graduate and undergraduate students. He recently spent three weeks in Costa Rica giving special help in the area of elementary science education and assisting in the development of science education programs for the children of Costa Rica.

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Have you filled in recommendation forms for some of your doctoral students who are about to finish their research work? Have you recommended the graduate students who completed a doctorate degree under your direction a year or more ago? Write to Joseph Novak our NARST secretary for additional forms. Let's all help to enlarge the influence of our Association.

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CHANGES IN BY-LAWS

At the 1964 annual meetings the value of a new category of membership was discussed. It has been proposed by the Executive Board that our By-Laws be changed to permit enrollment of Associate members. This category would permit enrollment of graduate students, interested lay persons, etc., who do not qualify for regular membership under the criteria of "scholarly contribution to research in science education or outstanding leadership in science education". Addition of this new class of membership would permit relatively unrestricted membership in NARST, but voting rights and office would be limited to regular members only. Also, Associate members would not be recommended for Fellow status in AAAS, since they would not meet the criteria established for such status through our association. Any Associate member could ask to be considered for regular status and election to membership would take place as usual, i.e., approval by the Executive Board.

SECTION 1: MEMBERSHIP

A. Eligibility

This Corporation shall have unlimited membership among those who by preparation and activities have shown their interest in the improvement of science teaching in any field, and who have contributed philosophical or statistical studies or applications of research in science education which contributions shall have been made accessible through suitable publication or report. Individuals who have contributed outstanding service to the advancement of science education may be admitted to the Association.

B. Classes of Membership

The membership of the corporation shall consist of Members, Associated Members, and Life Members.

Any regular Member shall be eligible to election as a Life Member on payment at one time of twenty times the current annual dues.

C. Election of Members

The names and addresses, together with an abstract of the qualifying activities and research of proposed new Members shall be sent to the Secretary in writing, on forms obtained from the Secretary. Only completion of an application form is necessary for Associate Membership.

All persons proposed for Membership who meet the eligibility requirements shall be elected by the Executive Board, from time to time during the year, and the Secretary shall notify those elected at once. The names of those elected shall be read at the Annual Meeting.

All resignations shall be sent to the Secretary in writing.

If the dues of a member remain unpaid beyond six months after due notice, the Secretary shall remove the name from the membership list.

Any former Member may have his membership reinstated, without prejudice and without re-election, on request to the Secretary and payment of the annual dues for one year beginning at the time of the last Annual Meeting.

* All changes are underlined.

SECTION 2: DUES AND CONTRIBUTIONS

The annual dues shall be recommended by the Executive Board and established by a majority vote of those members in attendance at the Annual Meeting. The dues shall cover one calendar year and shall become payable at the beginning of the calendar year.

The dues for a Life Member shall be twenty times the current annual dues payable at one time. These funds shall be expended only for amortizing the cost of the membership.

A person, corporation, or institution interested in furthering research in Science Education, upon agreeing to contribute one hundred dollars (\$100.00) or more per annum to the Association, upon approval by the Executive Board, shall be designated a Patron.

SECTION 3: OFFICERS

A. Officers

The officers shall be a President, a President-Elect, a Secretary-Treasurer, and a Research Coordinator; these together with the retiring President, and two Members-at-large, shall constitute the Executive Board.

Neither the President nor President^oElect shall be eligible for election to the same office for a second term. Any other officer shall be eligible to succeed himself. Only Members and Life Members are eligible to hold office.

B. Election of Officers

At the regular Annual Meeting, the President shall appoint a Nominating Committee of three to prepare mail ballots for electing officers, including members-at-large of the Executive Board, for the next ensuing year, with two or more nominees for each office except Secretary-Treasurer and Research Coordinator, for which only one is required. The slate proposed by the Nominating Committee shall be published in the Newsletter at least four (4) months prior to the Annual Meeting. Nominations may also be made by petition of ten(10) Members which shall be in the hands of the Secretary three (3) months prior to the Annual Meeting. Ballots shall be mailed by the Secretary to all Members eligible to vote two (2) months prior to the Annual Meeting, to be returned to the Secretary within four (4) weeks from date of mailing to Members. Election shall be by plurality, in serial order. In event of tie vote the decision shall be made by vote of the Members present at the next Annual Meeting. Results shall be announced at the Annual Meeting.

All terms of officers shall begin at the close of the Annual Meeting at which the election is announced and shall continue until the close of the Annual Meeting next following.

C. Duties of Officers

The President shall be Chairman of the Executive Board and shall have general charge of the affairs of NARST and preside at all business meetings. He shall be ex-officio member of all committees and shall arrange a Symposium for the Association at the Annual Meeting of the American Association for the Advancement of Science.

The President-Elect shall preside at all business meetings in the absence of the President, and shall be Chairman of the Program Committee for the Annual Meeting.

The Secretary-Treasurer shall keep an account of the receipts and expenditures and shall pay all bills of the Association. He shall make a report to the Association at the Annual Meeting, which may direct that the report be published.

The Research Coordinator shall be chairman of the Research Committee and shall organize and supervise the research activities of the Association, subject to review by the Executive Board. He shall make a report to the Association at the Annual Meeting.

The Executive Board shall conduct the usual business of the Association, and may publish reports of the officers and of standing committees at its discretion.

SECTION 4: MEETINGS

The Executive Board shall arrange the time and place of the Annual Meeting and may arrange additional meetings. The business meeting of the Association shall be held at the time and place of the Annual Meeting.

Five per cent (5%) of the Members in good standing shall constitute a quorum at the annual business meeting.

SECTION 5: COMMITTEES

The President, with the approval of the Executive Board, shall appoint all standing and special committees.

Standing committees shall include the Publications Committee, Editorial Board, the Program Committee, the Audit Committee, the Nominations Committee, and the Research Committee.

The duties of special committees shall be defined at the time of appointment.

Each special committee appointed by a President shall be considered automatically discharged at the close of the Annual Meeting next following the appointment, unless specific action to continue the appointment be taken by the President who enters the office at the close of the Annual Meeting.

Standing and special committees shall prepare reports for the Annual Business Meeting and at such other times as requested by the President.

SECTION 6: RULES OF ORDER

Roberts Rules of Order, Revised, shall govern the conduct of all meetings held by any group whatsoever in conducting the business of NARST except as otherwise specified in the Constitution or By-Laws.

SECTION 7: DISSOLUTION

The following provisions as to dissolution shall be observed in so far as compatible with the Minnesota Nonprofit Corporations Act, NSA 317.44-61.

In the event of dissolution of the corporation, the Executive Board shall, after payment of debts and obligations, transfer the net assets to the American Educational Research Association for its charitable and educational purposes, especially for education research; provided, the American Educational Research Association is then exempt from Federal income taxes as a charitable and/or education organization.

If the American Educational Research Association is not then so exempt the net assets, as aforesaid, shall be transferred to any nonprofit university, or to any other tax exempt agency selected by the Executive Board because of its interest in improving and advancing educational research.

If, six months after dissolution of the corporation, the foregoing provisions have not been acted upon, the Executive Board of the American Educational Research Association shall have authority to carry out the provisions of this section. In taking this action, if the American Educational Research Association is not then exempt from Federal Income Taxes as a charitable and/or education organization, the Executive Board of the American Educational Research Association shall transfer the net assets, as aforesaid, to the United Givers Fund or a tax exempt organization in the District of Columbia which has recognized charitable and/or educational purposes.

SECTION 8: AMENDMENTS

The By-Laws may be amended by affirmative votes of not fewer than two-thirds of the Members present at the annual business meeting, provided printed notice of the proposed amendment has been sent to the Members at least thirty days prior to such Annual Meeting. A proposed amendment may be submitted at the annual business meeting with modifications from the previously published form, in the light of such comments as may have been made after the previous publication.

The Secretary shall notify the Members by mail at the address shown for each Member on the membership list, unless written notice of a change of address is furnished to the Secretary prior to mailing of such notice.

Please attach
a small photo

National Association for Research in Science Teaching

AFFILIATED WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT
OF SCIENCE AND THE COUNCIL FOR RESEARCH IN EDUCATION

Application for Admission to Membership

Date _____

Name _____ Date of birth _____

Address _____

Marital status _____ Number of children _____

Degrees Held	Dates	Institutions	Major	Major Professor

Positions held. Give in chronological order with dates and work done on reverse side of this sheet (include military service, if any).

Organization memberships--indicate any offices with date:

Honors, fellowships, grants, etc.:

Research accomplishments. Include Master and Doctoral studies now in process (so indicate) with dates of completion.

Attach a complete bibliography of publication(s):

Name and address of a member who will serve as your sponsor:

Names of other members who know you: _____

Return to: J. D. Novak, Secretary, Department of Biological Sciences,
Purdue University, Lafayette, Indiana