

Vol 1:2

NEWSLETTER

NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

✓1

November

1959

Edited by Waldo W. E. Blanchet  
Mailed by Edward K. Weaver

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NARST Meetings: Mark on Your Calendar

AAAS Meeting, Chicago, December 26-31, 1959

NARST, Hotel Sherman, Chicago, December 26-28, 1959

Saturday, December 26. 2:00 p. m., Executive Committee, NARST

Sunday, December 27. 9:00 a. m., Joint Session of Science Teaching Societies Man and Space Travel

4:00 p. m. Joint Mixer, Science Teaching Societies

Monday, December 28, 9:00 a. m. RESEARCH SYMPOSIUM

Reviews of Recent Research in Science Education: Elementary, Secondary, College. Implications of the Findings of Recent Research for Science Education.

NARST, Annual Meeting, Hotel Sherman, Chicago, February 10-13, 1960

Friday, February 12, Evening. Joint Session with AACTE (American Association of Colleges of Teacher Education)

Saturday, February 13. Morning. Joint meeting with CESI (Council for Elementary Science International). NARST luncheon with guests: CESI, graduate students, and Chicago area teachers.

Message from the President

This Newsletter brings you considerable information about the activities of your elective officers, appointed workers, and program chairmen for the forthcoming NARST-AAAS Research Symposium in December and the 33rd Annual Meeting of NARST in February, 1960. You will note that both of these meetings are in Chicago, a midwestern location readily accessible from all parts of the United States and Canada.

It would be redundant for me to detail here a summary of the many facets of the research activities of your Association, collectively, and of its members, individually. I suggest that you read and reflect on the contents of this Newsletter and of the June, 1959 Newsletter. The emphasis is on fundamental research in science education at all levels--elementary, secondary, and college. The emphasis is also on a program of action as exemplified by the Reviews of Research, the activities of the Research Coordinator, and the nature of the programs planned for the forthcoming Chicago meetings.

Plan now and make your reservations for one or both of the Chicago meetings. If you are to be at the AAAS-NARST meetings in December, please write the president that fact; several will be asked to be hosts at the Joint Mixer of the Science Teaching Societies. Vice-President Clarence H. Boeck of the University of Minnesota is completing arrangements for an excellent program in February at the 33rd Annual Meeting of NARST. In early January, he will mail you a printed program, accompanied by the third newsletter published since last February.

It is a pleasure to serve as your 27th president. I hope to see you, your colleagues, and your graduate students at NARST sessions in Chicago.

Cordially,

Vaden W. Miles

Some Activities of the Research Coordinator

Changes in committee structure. Several changes have been made in the committee structure for the biennial review of research. Co-Chairman, Dr. Edward K. Weaver, is presently on a science education mission in Nigeria. Plans are now going forward to appoint another member to assume the responsibilities of Co-Chairman during Dr. Weaver's absence.

Dr. Margaret McKibben has asked to be relieved of the Chairmanship of the Secondary Level Committee because of the pressure of her work with the National Science Teacher's Association. Dr. Hubert Evans, for whom Dr. McKibben substituted last year has generously agreed once more to serve as Chairman of this group. Dr. McKibben will remain as a member of the Committee.

Dr. Stanley Brown of the University of California is out of the country on a foreign assignment and will be replaced by another person during his absence.

Report on the analysis of research (1956-1957). The U. S. Office of Education will publish the Analysis of Research in Science Education for 1956-1957 as Bulletin 1960 - No. 2. This will be available sometime before January 1st..

Progress on the Study of Unresolved Issues in Science Education. Following the discussion sessions devoted to this topic at the last Annual Meeting, the Research Coordinator together with his colleagues, Dr. W. Edgar Martin, Dr. Paul Blackwood and Dr. Charles Koelsche at the U. S. Office of Education were assigned the task of a further study and refinement of these issues which were identified by the discussion groups.

This committee held weekly meetings during the early Spring to formulate plans and develop a questionnaire. On May 15th this instrument was sent to a selected group of N. A. R. S. T members for the purpose: (1) of adding new categories of unresolved issues to those already delineated; (2) of adding other issues to the categories; and (3) of evaluating the issues from the 46th Yearbook. From this mailing, and a subsequent follow-up letter which was mailed about July 1st, a return of about 60 percent (60%) was obtained.

The returns contained many proposals of unresolved issues to be added to the categories as well as suggestions for some new categories. Work has gone forward on tabulating and categorizing the additional issues and the Committee is now engaged in checking the master list against other lists of issues which have been prepared by other groups.

It is hoped that by the middle of November the Committee will have this master list ready for distribution to a selected group of scientists, science educators, and other professional personnel. The purpose of the second study will be to screen the master list of issues and to obtain reactions from a group that is somewhat broader than that represented by the Association membership.

The committee is planning to make a report at the Annual Meeting of N.A.R.S.T. in February and to hold further discussion meetings at that time in an attempt to finalize the list of issues and to discuss the next steps needed to stimulate and encourage the directors of science education research centers and graduate students to undertake a coordinated attack on the critical issues which were identified as a result of this study.

NARST - AAAS, Chicago, December 26-31, 1959

The NARST - AAAS Research Symposium -- reviews of recent research in science education (elementary, secondary, college) and the implications of those findings is scheduled for the Hotel Sherman, Chicago, 9:00 a.m., Monday, December 28, 1959. John C. Mayfield, University of Chicago, is the NARST representative on the local planning committee. The program which was summarized in Science, Vol. 129 (May 22, 1959), p. 1435, appears in this Newsletter. The reviews of research reported at this Research Symposium cover the period July 1, 1957 to July 1, 1959. They will therefore include the researches reported at NARST-AAAS, Washington, December, 1958; those reported at the Annual Meeting in Atlantic City, February, 1959; and those subsequently reported to July 1, 1959.

NARST member, Mrs. Muriel Beuschlein, Chicago Teachers College, is the General Chairman and coordinator of the Planning Committee for the 1959 Joint meeting of the Science Teaching Societies of AAAS.

Program

NARST Convention Headquarters: Emerald Room, Hotel Sherman, December 26-28, 1959.

Note: For all joint events of the Science Teaching Societies, see the program of NSTA, Q5, in the AAAS Program.

Saturday afternoon, December 26.

2:00 p.m.; Emerald Room, Hotel Sherman; Meeting of the Executive Committee.

Monday Morning, December 28.

9:00 a.m.; George Bernard Shaw Room, Hotel Sherman; Research Symposium. Arranged by Vaden W. Miles, Wayne State University, Detroit, Michigan, and John C. Mayfield, University of Chicago, Chicago, Illinois.

Vaden W. Miles, President, NARST, Presiding

1. Review of Recent Research in Elementary Science Education.  
Betty Lockwood Wheeler, Central Michigan University, Mt. Pleasant, Michigan, (20 min.)
2. Implications of the Findings of Recent Research in Elementary Science Education.  
Paul E. Blackwood, U. S. Office of Education, Washington, D. C.  
Paper read by Helen J. Challand, National College of Education, Evanston, Illinois. (20 min.)
3. Review of Recent Research in Secondary Science Education.  
Hubert Evans, Teachers College, Columbia University, New York, N. Y. (20 min.)

4. Implications of the Findings of Recent Research in Secondary Science Education.  
William B. Reiner, Bureau of Educational Research, Board of Education, City of New York, Brooklyn, N.Y. Paper read by Edward Victor, Northwestern University, Evanston, Illinois (20 min.)
5. Review of Recent Research in College Level Science Education.  
John H. Woodburn, The Johns Hopkins University, Baltimore, Maryland. (20 min.)
6. Implications of the Findings of Recent Research in College Level Science Education.  
Herman R. Branson, Howard University, Washington, D. C. (20 min.)
7. Summary.  
Cyrus W. Barnes, New York University, New York, N. Y. (20 min.)

Hotel Reservation for NARST-AAAS, Chicago, December 26-31, 1959

Address: AAAS Housing Bureau, Suite 900, 134 North LaSalle Street, Chicago 2, Illinois.

Type of accommodation desired: Single or Double-bedded or Twin bedded Room.  
Desired rate. Maximum rate. Number in party. The name and address of each person, including yourself, must be listed.

First Choice: Hotel Sherman, headquarters and meetings of The Science Teaching Societies (include all of this in your request)

Date of Arrival: \_\_\_\_\_ Departure Date: \_\_\_\_\_. (These must be indicated.  
Add approximate hour, a.m. or p.m.)

Rates for Room with Bath. Hotel Sherman: Single (\$7.45 - 12.45); Double Bed (\$11.45 - 16.45); Twin Bed (\$14.45 - 19.50).

Name (of individual requesting reservation), Street, City and Zone, State.

Rooms will be assigned and confirmed in order of receipt of reservations.  
RUSH RESERVATION

Advance Copy of the General Program of the AAAS Chicago Meeting

Issues of Science carry complete information and coupons to be used in ordering your copy. Order now. Mail check or money order to the American Association for the Advancement of Science, 1515 Massachusetts Avenue, N. W., Washington 5, D.C. Enclose \$3.00 for the advance Registration Fee which brings the General Program by first class mail early in December, the Convention Badge, and all privileges of the meetings. Or enclose \$2.00 for

only the General Program. The Badge necessary for the privileges of any AAAS or associated organization meeting may be secured for \$1.00 more in the headquarters hotels, Hotel Morrison and Hotel Sherman. For advance registration, include name (Dr.), professional connection, address for receipt of program, field of interest, and convention address (Hotel Sherman). Your name, etc., will be posted in the Visible Directory as the Meeting opens.

National Association of Biology Teachers

(Synopsis of Program)  
Hotel Sherman, Chicago  
December 26-29, 1959

Sunday, December 27

- 9:00 a.m. Joint Session of Teaching Societies
- 2:00 p.m. Space Medicine
- 4:00 p.m. Louis XIV Room. Joint Mixer of Science Teaching Societies

Monday, December 28

- 9:00 a.m. NARST: Research Symposium
- NABT: Streamlining Biology
- 10:45 a.m. NABT: Presidential Address
- 12:15 p.m. NABT: Luncheon
- 2:30 p.m. Planning Biology Teaching Facilities

Tuesday, December 29

- 8:15 a.m. Field Trip
- 2:30 p.m. Methods in Senior High School Biology
- 3:00 p.m. How I do It in Elementary School and Junior High School Science

American Nature Study Society

(Synopsis of Program)  
Hotel Sherman, Chicago  
December 27-29, 1959

Sunday, December 27,

- 2:00 p.m. Natural History of the Chicago Area
- 4:00 p.m. Louis XIV Room. Joint Mixer of Science Teaching Societies
- 8:00 p.m. Showing of Kodachromes

Monday, December 28

- 9:00 a.m. Contributions of Research Toward a Better Interpretation of Nature
- 2:00 p.m. Reaching the Public -- Problems Ahead

Tuesday, December 29

- 8:15 a.m. Joint Field Trip of ANSS and NABT
- 2:00 p.m. How I Do It in Elementary School and Junior High School Science
- 2:30 p.m. Nature Writing for the Present and Future
- 3:45 p.m. Business Meeting
- 6:00 p.m. Annual ANSS Banquet

National Science Teachers Association  
(Synopsis of Program)  
Hotel Sherman, Chicago  
December 27-30, 1959

Sunday, December 27

- 2:00 p.m. Here's How I Teach Space Science. Elementary School, Junior High School, and Senior High School  
4:00 p.m. Louis XIV Room. Joint Mixer of Science Teaching Societies.  
8:00 p.m. Physical Science Study Committee Films. Emerald Room.

Monday, December 28

- 9:00 a.m. Symposium on K-12 Planning.  
What Research Says. Kenneth E. Anderson (9:15)  
2:00 p.m. Symposium on K-12 Planning. Discussion

Tuesday, December 29

- 10:00 a.m. Symposium on K-12 Planning. Summary  
2:00 p.m. Joint Elementary Science Session

Wednesday, December 30

- 9:30 a.m. Conference on the Future Scientists of America Program

Membership Dues

At the business meeting in Atlantic City, February 20, 1959, the annual dues for NARST were changed from \$7.00 to \$10.00 a year by vote of the members present. The proposal for this change in dues had been sent in writing to the entire membership in accordance with the Constitution and By-Laws. This is only the second raise in dues from the original \$5.00 in 1928.

The dues include a subscription to the official NARST publication, Science Education, which is owned by Secretary-Treasurer, Clarence M. Pruitt and is not owned by NARST as many seem to think.

NARST 1959 dues of \$10.00 for the year February, 1959 to February, 1960, are still payable to Dr. Clarence M. Pruitt, Secretary-Treasurer of NARST, University of Tampa, Tampa, Florida. Many of you paid promptly following the billing in the spring of 1959. Through an oversight, at least two newly elected members were not billed. Any others similarly not billed should forward the dues of \$10.00 to Dr. Pruitt.

Procedure: Nomination and Election of Members

1. Members should at any time send to Secretary Clarence M. Pruitt, University of Tampa, Tampa, Florida, the names (with addresses) of those whom they strongly recommend for membership in NARST on the basis of their research productivity and leadership in science education.
2. Secretary Pruitt will return a "Sponsor's Recommendation Blank for Membership in NARST." On return of the Sponsor's Blank to Dr. Pruitt, he will mail the nominee an "Information Blank for Candidate Nominated for Membership in NARST."

3. The original data (Sponsor's Blank and Candidate's Information Blank) will be sent by Dr. Pruitt to members of the Executive Committee (via mail round robin procedure) for preliminary screening of the candidates.
4. Further consideration of candidates and screening occurs when the Executive Committee is in session at the NARST-AAAS meeting in December and at the Annual Meeting which is usually in February. All NARST members are encouraged without formal invitation to attend and participate in any meeting of the Executive Committee. From one to ten members other than the committee are usually in attendance.
5. New members are elected by members of the Executive Committee and any past president and past secretary in attendance at the annual meeting, which usually occurs in February. The names of those elected shall be read at that annual meeting. This is in accordance with the Constitution and By-Laws as amended on February 20, 1959.

#### AACTE

The American Association of Colleges for Teacher Education (AACTE) formed Associated Organizations for Teacher Organizations (AOTO) with an Advisory Council for Teacher Education comprised of representatives of the different organizations. Some organizations are now negotiating for membership. NARST will consider affiliation with AACTE and membership in AOTO at its February, 1960 meeting. AOTO plans "for cooperation between AACTE and other teacher education organizations" for the advancement of teacher education in general.

Dr. Loren Caldwell, head of the science departments, Northern Illinois University, DeKalb perhaps accompanied by the president of NARST, will represent NARST at future meetings in Chicago of AACTE and AOTO. The next meeting will be held in Chicago in February, 1960.

#### AAAS Membership

NARST is an affiliate of the American Association for the Advancement of Science. Many of you are already members of the AAAS. If, however, you are not, your president, Vaden W. Miles, sponsors you for membership in AAAS the one large organization that represents, and work for, all science. The weekly magazine Science is included with the annual dues of \$8.50.

Write Raymond W. Taylor, Associate Administrative Secretary, AAAS, 1515 Massachusetts Avenue, N. W., Washington 5, D.C. for the booklet "Facts About the AAAS." The application for membership in AAAS is on the rear cover of this booklet. Incidentally, all members of NARST are, because of their election to this research organization, automatically eligible for fellowship status in AAAS. On application for the status of fellow you will be elected as a fellow in AAAS.

TEPS

The National Commission on Teacher Education and Professional Standards of the NEA invited NARST to have two representatives at its Fourteenth Annual National Conference, the University of Kansas, Lawrence, June 23-26, 1959. President Miles appointed Dr. Joseph D. Novak, Assistant Professor of Biological Education, Department of Biology, Purdue University, Lafayette, Indiana, and Dr. Kenneth E. Anderson, Dean of the School of Education, University of Kansas, as representatives of NARST.

Printed Programs

The General Biological Supply House (Turttox Products), Chicago, has underwritten the printing of programs for the annual meetings of NARST for the last two years. Similar financial assistance is to be extended for 1960. We are grateful to Mr. Blair Coursen, president, for this courtesy.

Members may secure additional copies of the printed program for the 32nd Annual Meeting of NARST, Atlantic City, February, 1959, by writing Vaden W. Miles. Programs for the 33rd Annual Meeting of NARST, Hotel Sherman, Chicago, February 10-13, 1960, will be mailed to the membership from Minneapolis in early January, 1960, by Vice-President and Program Chairman Clarence H. Boeck.

Third Newsletter for Year Ending February 1960

Tentative date of issue	Deadline for receipt of information	Information to Vice President and Program Chairman
January 1-10 1960	December 10 1959	Dr. Clarence H. Boeck University of Minnesota Minneapolis 14, Minnesota who will prepare and issue Third Newsletter as editor

Members should send news items to Dr. Boeck at any time prior to the deadline indicated. Members of the Executive Committee and Chairmen of other committees are expected to send information re their assignments to the editor prior to the deadline indicated.

Review of Research

The Review of Research in Science Education (July 1, 1957 to July 1, 1959) is under the co-chairmanship of Ellsworth S. Obourn and Cyrus W. Barnes with Cy assuming major responsibility. There are three committees: College Level, Secondary Level, Elementary Level. Members of the level committees are appointed for 3 years and level chairmen for 2 years. Each year one third of every level committee will have completed tenure and new members will be added for a 3-year tenure. In this way it is hoped that there will always be a nucleus of those with experience on the committees. It is also planned each 2 years to select the co-chairman from those who have served as level chairmen and to select new level chairmen from among those who have been committee members.

Review of Research

Seventh and Eighth Years  
(July 1, 1957 to July 1, 1959)

Committees for the Year Ending February, 1960

Cochairmen: Ellsworth S. Obourn (Continuing)  
Edward K. Weaver (Ending February, 1960)  
Cyrus W. Barnes (Ending February, 1960)

College Level

Chairman: John H. Woodburn (2 years ending February, 1960)  
Johns Hopkins University  
Baltimore, Maryland

One Year  
Bullington  
Wallin

Two Years  
Glidden  
Oakes

Three Years  
Breukelman  
Novak

Secondary Level

Chairman: Margaret McKibben (1 year ending February, 1959)  
National Science Teachers Association  
Washington, D.C.

Hubert Evans (1 year ending February, 1960)  
Teachers College  
Columbia University  
New York, New York

One Year  
Stanley Brown (to be replaced)  
Lowry

Two Years  
Pella  
Wayne Taylor

Three Years  
Rutledge  
Stotler

Elementary Level

Chairman: Betty L. Wheeler (2 years ending February, 1960)  
Central Michigan University  
Mt. Pleasant, Michigan

One Year  
Boyer  
Young

Two Years  
Burlison  
Lammel

Three Years  
Beeler  
Beuschlein

Last Call for Papers for 33rd Annual Meeting NARST, February 10-13, 1960.

MORE PAPERS CAN BE USED ! !

There is still time to get your research paper included in the program. December 1, 1959, will be the deadline. This is an open invitation to all members and their graduate students. Send your acceptance of this invitation to:

Dr. Clarence H. Boeck  
Vice-President and Program Chairman  
University High School  
University of Minnesota  
Minneapolis 14, Minnesota

Wednesday, February 10, 1960, is being reserved for meetings of the Executive Committee. The meeting for the election of new members is scheduled for Wednesday, p.m. A full program of papers is planned for Thursday and Friday, February 11 and 12.

The annual business meeting is placed on the agenda for Friday afternoon.

The evening meeting on Friday will be jointly sponsored with AACTE and will feature a speaker of note.

Saturday we will combine forces with CESI in sponsoring a program of papers. This section of the program is under the planning and direction of Dr. Albert Piltz, Supervisor of Elementary Science, Detroit Public Schools.

At the luncheon meeting Saturday, February 13, honor will be paid those who have been recognized by Science Education by being featured in one of the issues of the magazine.

All meetings are to be held in the Hotel Sherman, Chicago, with the exception of the joint meeting with AACTE which will be held in the Conrad Hilton Hotel.

It is not too early to write the Hotel Sherman for reservations. DO NOT WAIT for the reservation card which will not reach you until sometime in January! Mention NARST when you write.

Here's hoping we'll all be together in Chicago in February. Your presence is needed by NARST. You need NARST.

Clarence H. Boeck.

Graduate Students and Potential Members

It is hoped that members of NARST will encourage outstanding graduate students and other potential members to join us in Chicago. If you will send the name and address to Dr. Clarence H. Boeck, University High School, University of Minnesota, Minneapolis 14, Minnesota, he will mail a program (and perhaps a hotel reservation card) to that person. Act now! Remember when you received that extra encouragement from someone who recognized your potential.

Cooperative Committee on the Teaching of Science and Mathematics of the AAAS

George G. Mallinson, NARST Representative on the Cooperative Committee on the Teaching of Science and Mathematics of the AAAS, reports his objection to a revision suggested by the American Association of Physics Teachers and American Institute of Physics in Recommendations for the Preparation of High School Teachers of Science and Mathematics - 1959 (Garrett Report). The suggested revision to which he objects is:

WIV. The high school 'Physical Science' course:

Very few of the high school 'Physical Science' courses presently taught are interesting and valuable to the students. It is a difficult course to teach well. The academic background required of a competent teacher is both difficult to specify and secure. We are of the opinion that special terminal introductory courses in physics and chemistry would be better and would certainly be more effectively taught. We, therefore, recommend that this report not support a 'Physical Science' course and perhaps the report should even include a paragraph explaining the reason."

Mallinson concludes his objection to the suggested revision with the following statement:

"It would seem, therefore, recognizing that numerous groups have recommended physical science (including the President's Commission and the Conant Report), that since the course is thriving even more than physics in terms of numbers and newer and better materials are constantly being produced, the task is to do the job well, not to abolish a course or refuse to suggest a program for training teachers to teach it well."

News and Views

Mervin Oakes, Professor of Biology, Queens College, has been appointed by President Miles to come up with proposals for revision of the Constitution and By-Laws. He is being aided by members of the Executive Committee (Boeck, Fraser, Miles, Pruitt, Weaver). The plan is to distribute the current and the revised articles to the membership at least one month prior to the February, 1960 Annual Meeting of NARST so the recommendations can be voted upon at that meeting. The Constitution and By-Laws will then be mailed to the membership.

Executive Committee member Edward K. Weaver is in Nigeria, West Africa, for the current year. His mail should be addressed to Mrs. Dorothy Bennett, Secretary to Dr. E. K. Weaver, Atlanta University, Atlanta, Georgia. Mrs. Bennett and 1957 NARST President, Waldo W. E. Blanchet, prepared and distributed this newsletter.

The Executive Committee approved the plans of the Committee on Review of Research to do two-year cycles of the reviews (elementary, secondary, college). This explains why the annual reviews did not appear in the December 1958 issue of Science Education as expected by many of you. The current cycle extends from July 1, 1957 to July 1, 1959.

Dr. Cyrus W. Barnes, Professor of Science Education, New York University has been appointed a Co-chairman of the Committee on Reveiw of Research. He assumes the duties of Dr. Edward K. Weaver in the second year of Dr. Weaver's two-year appointment, and will be working closely with Co-chairman Ellsworth S. Obourn and the level chairmen (Wheeler; McKibben and Evans; Woodburn) in the production of Reviews of Research for the period July 1, 1957 to July 1, 1959. All of those named are performing in positions of major responsibility in NARST. Our gratitude to them for the many hours of fine work which will culminate in publication of the Reviews of Research.

Programs of the Science Teaching Societies (NARST, NABR, ANSS, NSTA) are included in this NARST Newsletter in synopsis form because the customary printed programs of these four associations will not be available for the AAAS Meetings this year. The AAAS General Program should be ordered, as directed elsewhere in this Newsletter.

The Executive Committee of NARST voted at the February, 1959 Meeting in Atlantic City to honor all recipients of The Science Education Recognition Award and the outgoing president at the Annual NARST Luncheon on Saturday, February 13, 1960, in the Hotel Sherman, Chicago.

Hotel Reservations for the 33rd Annual Meeting of NARST may be made by writing to Hotel Sherman, Chicago, Illinois. The dates are Wednesday evening, February 10, through Saturday luncheon program, February 13. It is assumed that the rates and directions are the same as given in this Newsletter for the AAAS meetings.

The Joint Mixer of the Science Teaching Societies at the AAAS Meetings will be held in the Louis XIV Room, Hotel Sherman, from 4:00 p.m. to 6:00 p.m. on Sunday, December 27. Please come to the Hospitality Table in Hotel Sherman where you will be given an identification tag of a particular color to identify you as a member of NARST. Ask for the NARST color (probably blue). You will wear it proudly. You earned it.

The AAAS Smoker is scheduled for 8:30 p.m., Tuesday, December 29, in the Terrace Casino of the Morrison Hotel. The annual smoker has become an institution where old friends greet and new friends meet.

Did you know? General Science Quarterly became Science Education with the May, 1929 issue. With this number Science Education became the official publication of the National Association for Research in Science Teaching.

John C. Mayfield, University of Chicago, is in charge of local arrangements for NARST at the AAAS Meeting.

During the next few months, the Executive Committee hopes to prepare a booklet of information concerning NARST, and to produce a Constitution and By-Laws (revised) for distribution to the membership. What should be included in the booklet? Mail your suggestions to the president (see first page of this newsletter for address). Printed notice of proposed amendments to the Constitution and By-Laws will be mailed to the members at least 30 days prior to the annual business meeting in February, 1960 in order that discussion and voting on amendments may occur at that meeting.

Have you recommended a "strong" candidate for membership in NARST, in accordance with the procedure stated in this Newsletter and that of June, 1959? Preliminary screening of candidates will occur in December; final screening and election will occur in February. Time is important; quality is more important.

Dr. Ray Haun, professor of physical sciences, Drake University, has accepted a three-year appointment as the science member of the National Committee on General Education of the Association for Higher Education, NEA. He succeeds Vaden Miles. Thus two NARST members have served on this important Committee.

Change of Position. Dr. Joseph D. Novak from Assistant Professor of Biology, Kansas State Teachers College, Emporia, to Assistant Professor of Biological Education, Department of Biology, Purdue University, Lafayette, Indiana.

New Position: Dr. Kelso B. Morris from Department of Chemistry, Howard University, Washington, D.C. to Chemistry Section, Department of Mechanical Engineering, Institute of Technology, Wright-Patterson Air Force Base, Ohio.

Paul DeH. Hurd, Associate Professor of Science Education, Stanford, University, has been appointed the Educational Consultant to the Biological Sciences Curriculum Study project of the American Institute of Biological Sciences. He will be on leave from Stanford University during 1959-1960, with headquarters at the University of Colorado, Boulder.