

NEWSLETTER
NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

June

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Edited by Vaden W. Miles

Officers to February 13, 1960

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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. _____ a.m. General Session:
Man and Space Travel

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

Certain sessions joint with AACTE (American Association of
Colleges of Teacher Education)

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

Greetings from the Immediate Past President

Dear Co-workers:

I had the pleasure of serving NARST as its 26th president. The period encompassed by my administration represented one in which there was an upsurge of interest in science. This meant increased activity for NARST on the national scene, but coupled with such activity came far greater expectations.

Some of these expectations were inherited from the former president, Nathan Washton, or, from the founders; others, were developments of 1958-59. I need not detail them at this point in time, since the program of the 32nd Annual Meeting, the Newsletters, and personal contacts with members and with national agencies tell the story of the day-to-day activities of your immediate past president. Leisure time was hard to find in my 1958-59 schedule. Now that this administrative period is over, I can look back and say: "Thanks for the opportunity provided to serve this great organization."

The presidency for 1959-60 is in strong hands. As we all know, Vaden is a capable science administrator with a lively enthusiasm for research in science teaching. Under his leadership, coupled with the work of Clarence Pruitt and other members of the executive committee, NARST will remain with your help first-rate.

I am looking forward to seeing you at the next meetings in Chicago.

Cordially,

Tom Fraser

Message from the President

It was wonderful to see you NARST members in Atlantic City during our 32nd Annual Meeting. The camaraderie in evidence -- between our long time members, our newly elected members, the members of the Council for Elementary Science International, the group of potential members who are developing in positions of leadership, and promising graduate students -- assures a bright future for NARST.

When such a group of persons of ability who are dedicated to research in the teaching of science come together to report on progress and to develop plans for the future, one feels a deep sense of pride as he works with the "elder statesmen" of NARST whose vision and productivity in research are admired, with those who joined them later in common cause, and with the ideas from the fertile brains of our newer colleagues in charting a course for fundamental research in science education for this cosmic age.

Basic Research is like motherhood. Everybody is in favor of it. Research in science education and the teaching of science is significantly unlike motherhood in at least one respect: too little is being done about it. More than 90 per cent of all research in science education has, however, been done by members of NARST. This is encouraging, but it is not enough.

NARST is a relatively small organization of fewer than 300 dedicated members with meager financial resources, as organizations go. It appears unlikely that outside financial assistance to NARST for Research will be forthcoming in the near future. The AAAS through its Director of Education, Dr. John R. Mayor, a member of NARST, has recently begun a minimum program of financial assistance to individuals for research in the teaching of science.

In view of the foregoing, NARST proposes to develop and sponsor a realistic, workable program for fundamental research in science education. Several actions have been taken by your Executive Committee. More are to come.

First, a portion of the 32nd Annual Meeting of NARST, Atlantic City, February, 1959, was devoted to papers by Obourn on "The Crisis in Science Education Research" and by Van Deventer on "What Action Must NARST Take to Meet the Crisis?" These papers set the tone for three discussion groups which considered the "Unresolved Issues and Problems in Science Education Research", and the recorders' reports on "Next Steps for NARST" which seemed to emerge from consideration of the issues and problems.

Second, the Executive Committee of NARST appointed Ellsworth S. Obourn, Specialist in Science, Office of Education, U. S. Department of Health, Education, and Welfare, as Research Coordinator for the Association. The Committee then secured approval from Dr. L. G. Derthick, U. S. Commissioner of Education, for the currently permanent Office of Education staff members Paul E. Blackwood, Charles L. Koelsche, W. Edgar Martin, and Ellsworth S. Obourn to serve as a coordinating committee within the Office to aid NARST in improving the research program in science education at the elementary, secondary, and college levels.

Third, the Research Coordinator, aided by members of the committee within the Office of Education, has developed working papers (May 15, 1959) which list issues in science education and critical problem areas in science education. A general idea of procedure henceforth occurs in this Newsletter under the center-head "Some Activities of the Research Coordinator."

Fourth, NARST will plan ways and means to allocate areas for research to research centers at universities and large school systems. Any one center would focus on a problem and would serve as a clearing house for similar research being done at other institutions. It is hoped that decisions on some research centers will be made at the 1960 Annual Meeting of NARST.

These activities of your Association indicate that NARST is doing what it is best qualified to do -- to bring to bear on science education our competencies in research. A number of corollary activities appear in news items in this Newsletter.

With your help, the Association's Executive Committee pledges increased progress on fundamental research in science education. It is a pleasure for me to serve as your 27th president during the year ending with the 33rd Annual Meeting in February, 1960.

Sincerely,

Vaden W. Miles

New Members

The Association welcomes to its membership the following listed persons who were nominated by members of NARST and whose research, publications, and leadership in science education were of sufficiently high quality to merit election to membership: (The election of some nominees to membership awaits further evidence of research productivity and publications.)

Dorothy Alfke, Assoc. Prof. of Science Education, Pennsylvania State University, University Park, Pa.

Harold S. Anderson, State Teachers College, Springfield, South Dakota

Myron Atkin, Assoc. Prof. of Science Education, University of Illinois, Urbana

Horace Hopkins Bliss, Assoc. Prof. of Chemistry, University of Oklahoma, Norman

Ralph H. Blumenthal, on leave from the physics dept. of the City College of New York to the Sperry Gyroscope Corp.

William H. Brown, Director, Bureau of Educational Research, North Carolina State College, Durham

Arthur Carin, Ass't Prof. of Education, Queens College, Flushing, N. Y.

Helen Challand, Chairman of Science Dept., National College of Education, Evanston, Illinois

Alfred T. Collette, Dual Prof. of Genetics and Science Education, Syracuse University

H. W. Crall, Assoc. Prof. of Biological Science, Western Illinois University, Macomb

Frederic B. Dutton, Head, Science and Mathematics Teaching Center, Michigan State University, East Lansing

Charles Jerry Flora, Ass't Prof. of Biological Science, Western Washington College, Bellingham

Edward Frankel, Bronx High School of Science, 120 East 184th St., New York 68, N. Y.

John E. Garone, Science Coordinator, New York City public schools

Harvey John Goehring, Jr., physics and mathematics, Penn. Hills Senior H. S., Verona, Pa.

Herbert H. Hannon, Prof. of Mathematics, Western Michigan University, Kalamazoo

Frank K. Harman, Prof. of Science, State Univ. of N. Y., College for Teachers, Buffalo

Edward J. Harrington, Ass't Prof. of Biology and Science Education, San Jose State College, California

- Milton Hecht, Biology Dept., Abraham Lincoln High School,
Brooklyn, N. Y.
- Eric Hopka, Prof. of Chemistry, St. John's College, Winfield,
Kansas
- Crayton T. Jackson, Prof. of Science, Morehead State College,
Morehead, Kentucky
- Paul Kahn, Bronx High School of Science, 120 East 184th St.,
New York 68, N. Y.
- Charles L. Koelsche, Specialist for Science, U. S. Office of
Education, Washington 25, D. C.
- Archie Louis Lacey, Sr., Prof. of Science, Grambling College,
Grambling, Louisiana
- June E. Lewis, Prof. of Science, State University of N. Y.,
College for Teachers, Plattsburgh
- J. Bryce Lockwood, physics teacher, Highland Park Junior
College, Highland Park, Michigan
- Alexander G. Major, Assoc. Prof. of Science, State University
of N. Y., College for Teachers, Potsdam
- Sister Ernestine Marie, S.C.H.; Sisters of Charity, Halifax;
850 DeSalaberry Avenue, Quebec 6, P.Q., Canada
- J. Stanley Marshall, Prof. of Science, State University of N. Y.,
College for Teachers, Cortland
- John R. Mayor, Director of Education, American Association for
the Advancement of Science, Washington, D. C.
- Leon A. McDermott, Assoc. Prof. of Physics and Chemistry,
Central Michigan University, Mt. Pleasant, Michigan
- Kelso B. Morris, Assoc. Prof. of Chemistry, Howard University,
Washington, D. C.
- Pearl Nelson, Ass't Prof. of Science Education, Boston Univer-
sity, Boston, Massachusetts
- Joseph D. Novak, Ass't Prof. of Biology, Kansas State Teachers
College, Emporia
- William M. Pierce, Assoc. Prof. of Physics, Ohio University,
Athens, Ohio
- William P. Rogers, 63 Fernwood Avenue, East Lynn,
Massachusetts
- J. Hervey Shutts, Consultant in Science, Minneapolis Public
Schools, Minneapolis, Minnesota
- Robert H. Simmons, Dean of Instruction, Albany State College,
Albany, Georgia
- Ward L. Sims, Assoc. Prof. of Biology, Washburn University,
Topeka, Kansas
- Samuel Strauss, McKinley High School, Washington,
D. C.
- B. John Syrocki, Assoc. Prof. of Science, State University
of N. Y., College for Teachers, Brockport
- Harold O. Taylor, Chairman, Dept. of Science and Mathematics,
Amphitheater High School, Tucson, Arizona
- Jesse Parker Tyndall, Ass't Dean and Chairman of the Dept. of
Science, Atlantic Christian College, Wilson, North Carolina
- Edward Victor, Assoc. Prof. of Science Education, Northwestern
University, Evanston, Illinois
- William J. Walsh, Ass't Prof., Dept. of Teacher Education,
Michigan State University, East Lansing
- Fletcher G. Watson, Prof. of Science Education, Harvard Graduate
School of Education, Harvard University, Cambridge, Mass.
- Samuel H. Wyatt, Uniondale High School,
Uniondale, N. Y.

Joe Zafforoni, Ass't Prof. of Elementary Education, University of Nebraska, Lincoln

Some Activities of the Research Coordinator

Some critical problem areas in science education were identified by work groups at the 1959 NARST Annual Meeting. These problem areas have been grouped into seven categories, as follows:

- Curriculum
- Methods of Instruction
- Facilities and Equipment for Teaching and Learning
- Teacher Training
- Administrative Procedures
- Federal, State and Local Relationships
- Evaluation and Research

Some issues in science education were also identified by those work groups. The issues have been allocated to the seven categories on a response form. This form has been sent to a selected group within NARST with instructions to restate, sharpen, and extend the problem areas and issues. The Coordinating Committee will collate the returns and will prepare a second instrument for distribution to a larger sample, including competent people who are not members of NARST.

The Research Coordinator urges those members who have been selected for the first go around on issues to give careful consideration to the Response Forms and return them to him at the earliest possible moment. Return them to:

Dr. Ellsworth S. Obourn
Specialist for Science
Room 3278
Office of Education
Department of Health,
Education, and Welfare
Washington 25, D. C.

As indicated in the president's message, NARST hopes to have a research center elect to focus on a problem and also serve as a clearing house for research on that problem. Concerted attack on a problem would replace the present "shotgun" approach. By such means, it should be possible over a period of several years to secure answers to some of the unresolved issues and problems in science education.

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 -- scheduled for the Hotel Sherman, Chicago, December 28, 1959, is being arranged by Vaden W. Miles, Wayne State University, and John C. Mayfield, University of Chicago. John is also the NARST representative on the local planning committee. The program appeared in Science, Vol. 129 (May 22, 1959), p. 1435. 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. Among the other NARST members on joint committees are: Robert Bullington (film showings), Nelson Lowry (publicity), Donald Boyer (hospitality), and Mrs. Catherine Dale (educational tours).

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. The Executive Committee of NARST is initiating proceedings with the owner of Science Education to legalize the relation of NARST to Science Education.

Not one penny of this raise in dues goes to anyone's salary. Money was needed to meet increases in publication and mailing costs. The raise from \$7.00 was long overdue.

NARST 1959 dues of \$10 are still payable to Dr. Clarence Pruitt, Secretary-Treasurer of NARST, University of Tampa, Tampa, Florida. Many of you paid promptly following the recent billing.

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 those members in attendance at the annual business meeting, which usually occurs in February. This is in accordance with the Constitution and By-Laws as amended on February 20, 1959.

AACTE

In February, 1958 the American Association of Colleges for Teacher Education formed a Coordinating Committee on Collegiate Problems of Teacher Education. This Committee was charged to devise a plan "for cooperation between AACTE and other teacher education organizations" for the advancement of teacher education in general.

Vaden W. Miles represented NARST at the last meeting of the Committee in Chicago on February 11, 1959. The next meeting of the Committee will be held in Chicago in February, 1960 when NARST and AACTE meet concurrently in Chicago.

AACTE formed Associated Organizations for Teacher Organization with an Advisory Council for Teacher Education comprised of representatives of the different organizations. Some organizations are now negotiating for membership. NARST will consider membership at its February, 1960 meeting. The original committee will be disbanded as its members join the permanent organization.

Some Quotes About the Atlantic City Meeting from Letters

I regard this meeting as one of the outstanding ones I have attended in the last two decades. This was true because our program was structured so that NARST members spent some time in "work-discussion" about matters vital to NARST and of grave import to the future of science education in the U. S. ...

We were fortunate to have some of our "old" members there. I am no hero worshiper, but we need our wise "elder statesmen." They have keen insights and make tremendous contributions.... They serve as a kind of evaluative group and as a "conscience" to us today.

...The need for collaboration with educational research workers generally -- with AERA specifically. (Editor's comment: AERA is considering a new structure to include affiliated groups.)

The quality of the research papers was unusually high.... The physical accommodations offered by the Hotel Dennis and the general organization of the program were first rate.... Every year I leave the NARST Annual Meeting thinking "This is the best meeting we have ever had."

That was a good program CESI had on Saturday.... The award of Citations to the presidents of NARST is recognition of their long service in behalf of research. (Editor's comment: Those who have received the Science Education Recognition Award and have therefore been featured in an issue of the magazine with a picture on the cover will be honored at the 1960 Annual Meeting of NARST, Hotel Sherman, Chicago, February 10-13, 1960. The award of Citations to those individuals will occur at the luncheon on Saturday, February 13.)

AAAS Membership

NARST is an affiliate of the American Association for the Advancement of Science. NARST sponsors a Research Symposium at the annual AAAS meetings held between Christmas and New Year's Day.

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 works 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 Novak, assistant professor of biology, Kansas State Teachers College, Emporia, and Dr. Kenneth E. Anderson, Dean of the School of Education, University of Kansas, as representatives of NARST. Dr. Ellsworth S. Obourn represented NARST at a meeting of the TEPS Conference Advisory Committee held in Washington, D. C. on May 20.

The theme of the conference is "The Education of Teachers: Curriculum Programs." The Garrett Report of the AAAS Cooperative Committee on the Teaching of Science and Mathematics will be discussed at a special session. The report is entitled: Recommendations for the Preparation of High School Teachers of Science and Mathematics -- 1959.

This is the second year TEPS has invited representatives of the liberal arts, subject-matter areas to join professional educators in conference to consider mutual problems. The conference is cosponsored by TEPS, the AAAS, and the National Academy of Sciences-National Research Council.

Printed Programs

The General Biological Supply House (Turtox 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.

Your vice-president and program chairman for 1959 wishes to apologize for the late mailing of the printed programs about February first. The Baltimore printer had promised to deliver the programs to President Fraser by January 15. The printer, however, extended the delivery date several times. Tom and his secretary sat poised with your addressed mailing envelope awaiting arrival of the programs. The printer had been very prompt the preceding year. We think you will agree that the printed program was beautifully done.

A January 1959 Newsletter and the hotel reservation card were held for enclosure in the same mailing with the printed program. Every effort will be made to avoid such delays in 1960.

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.

CESI in Hawaii

Exploring Problems in Elementary School Science was the theme of the CESI conference held in Honolulu June 17-19, 1959. John Navarra -- president-elect of the Council for Elementary Science International; NARST member; Chairman of the Science Department, Jersey City (N. J.) State College -- was a key-note speaker. Other CESI-NARST consultants for the conference were: Gerald S. Craig, John Garone, Julius Schwartz, and Joe Zafforoni.

Second and Third Newsletters for Year Ending February, 1960

Second Newsletter

Tentative date of issue	Deadline for receipt of information	Information to new member of Executive Committee
Nov. 1 1959	October 10 1959	Dr. Edward K. Weaver Atlanta University Atlanta, Georgia who will prepare and issue Second Newsletter as editor.

Third Newsletter

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

Members should send news items to the editor of the next newsletter 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 assignment to the editor of the next newsletter 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 cochairmanships of Ellsworth S. Obourn and Edward K. Weaver with Ed 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 cochairmen 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 (Continued)

The level committees for the year beginning February, 1959 are given below. Situations have arisen which have made it necessary to replace some of those listed below; other situations may arise during the summer of 1959. Publication of the revised level committees will appear in the next Newsletter which you will receive in the fall of 1959.

Review of Research

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

Committees for the Year Ending February, 1960

Cochairmen: Ellsworth S. Obourn and Edward K. Weaver
(Continuing) (Ending Feb., 1960)

College Level

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

<u>One Year</u>	<u>Two Years</u>	<u>Three Years</u>
Bullington Wallin	Glidden Oakes	Breukelman Novak

Secondary Level

Chairman: Margaret McKibben (2 years ending Feb., 1960)
National Science Teachers Association
Washington, D. C.

<u>One Year</u>	<u>Two Years</u>	<u>Three Years</u>
Stanley Brown Lowry	Pella Wayne Taylor	Rutledge Stotler

Elementary Level

Chairman: Betty L. Wheeler
Central Mich. Univ. (2 years ending Feb., 1960)
Mt. Pleasant, Michigan

<u>One Year</u>	<u>Two Years</u>	<u>Three Years</u>
Boyer Young	Burleson Lammel	Beeler Beuschlein

First Call for Papers for 33rd Annual Meeting, Feb., 1960

If you plan to present a paper at the 33rd Annual Meeting of NARST in the Hotel Sherman, Chicago, February 10-13, 1960 or know of someone that should be contacted about presenting a paper, will you please write:

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

or

Dr. Clarence M. Pruitt
Secretary, NARST
University of Tampa
Tampa, Florida

The Vice President and Program Chairman, Clarence Boeck, may wish to send specific directions regarding the general format of the paper, to give instructions with regard to mimeographing the paper or an abstract of it for distribution after the oral presentation, etc. Research papers will be given priority. Other papers will be accepted only if they have unusual merit, are closely related to research in science education, are appropriate to the type of program that is being developed, and if time is available. It is important that your complete address be known to Dr. Boeck at all times. Dr. Boeck believes the program should be taking shape no later than November, 1959.

Cooperative Research Program of the U. S. Office of Education

Members of NARST who are engaged in or planning research studies under the sponsorship of their institution or State educational agency should submit proposals to Dr. Roy M. Hall, Assistant Commissioner for Research, U. S. Office of Education, Department of Health, Education, and Welfare, Washington, D. C. Your Research Coordinator, Dr. Ellsworth S. Obourn (address page 6) may have further information and suggestions for you. At least, he should be kept informed of all research proposals.

AAAS Research Grants to Science Teachers

Members of NARST who are planning individual research studies may perhaps secure financial assistance from the American Association for the Advancement of Science. The AAAS had a limited number of grants available with a May, 1959 deadline for applications. Additional grants may be available in the future. For further information, write Dr. John R. Mayor, Director of Education, AAAS, 1515 Massachusetts Ave., N. W., Washington 5, D. C.

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 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.

News and Views

In Memorium. Richard Ralph Armacost, February 27, 1914 - February 26, 1959. Professor of Biological Science Education, Purdue University, and Co-Editor of The American Biology Teacher. Instantaneous death occurred in an automobile accident. Our sympathy to his widow, two daughters, and parents. The March, 1959 issue of the magazine contains a memorial statement by Co-Editor Paul Klinge.

George G. Mallinson, Dean of Graduate Studies, Western Michigan University, has been reappointed as the NARST representative on the AAAS Council and on The Cooperative Committee on the Teaching of Science and Mathematics of the American Association for the Advancement of Science.

The excellent program for the joint meeting of the Council for Elementary Science International and NARST held in Atlantic City, Saturday, February 21, 1959 was arranged by Arnold M. Lahti of Western Washington College of Education, Bellingham. Dr. Lahti was assisted by Willard Jacobson, President of CESI, Teachers College, Columbia University, and Mr. John McLain, Secretary-Treasurer of CESI, South Milwaukee (Wisconsin) Public Schools.

Marian Young of the University of Florida has participated in several science workshops and science institutes during the past year. (The list is too extensive to include here.)

Education is devoting its October 1960 issue to science education. NARST members Clarence Boeck, George Mallinson, William Reiner, and Edward Weaver are among the 7 contributors to this issue. This is an example of the importance of NARST members using our research-minded membership whenever possible.

The Executive Committee approved the plans of the Committee on the 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 1959 issue of Science Education as expected by many of you. The current cycle extends from July 1, 1957 to July 1, 1959.

Among the officers of the American Nature Society who are also members of NARST are: President Stanley B. Mulaik, University of Utah, and Secretary Beth Schultz, Western Michigan University.

News and Views (continued)

Our 1942 President, Dr. G. P. Cahoon, retires this June from the faculty of Ohio State University. NARST salutes him for his many contributions to science education and sends best wishes for the years ahead.

Executive Committee member Edward K. Weaver is conducting a workshop for science coordinators at Atlanta University this summer, after which Mrs. Weaver and son Kim (8) hope to get him to Maine for a much needed rest.

Ex-prexy William C. Van Deventer reports he will interrupt the gardening in Kalamazoo long enough to attend the wedding of son Frank in Ann Arbor, Michigan on June 20. Western Michigan University also has summer science programs (some NSF supported) involving Mallinson, Van Deventer, Schultz, Hannon, and Lockwood.

Mr. Smith went to Washington! NARST is delighted that one of its most respected researchers was chosen as director of the program for Title III (Science, Mathematics, and Foreign Language) under the National Defense Education Act of 1958. We refer, of course, to Herbert A. Smith who is on leave from the University of Kansas while he serves as Chief of the Science, Mathematics and Foreign Language Section in the U. S. Office of Education.

Congratulations to four long time NARST members! Donald Decker, Director of Instruction, Colorado State College, Greeley, succeeds Herbert A. Smith as president of NSTA. Working closely with them are NSTA's Executive Secretary, Bob Carleton, and Assistant Executive Secretary, Margaret McKibben. It is workers like these who have made NSTA's contributions to science education so great.

Kudos to Margaret McKibben for doing, as Chairman, the "Seventh Annual Review of Research in Science Education: Secondary Level" when Chairman Hubert Evans went overseas last year. This was a monumental task well done on short notice as attested to by her reports at the Washington AAAS meeting and the NARST Atlantic City meeting.

James W. Perlman of San Francisco State College has been promoted to associate professor.

Jerry J. Nisbet of Ball State Teachers College, Muncie, Indiana, has been promoted to Associate Professor of Science and Assistant to Head of Department.

Change of position. Professor Will S. DeLoach, Department of Chemistry, George Peabody College for Teachers, Nashville 5, Tennessee. From State Teachers College, Florence, Alabama.

New Title. Dr. Vernon C. Lingren, Professor of Education and Director, Office of Graduate Study, University of Pittsburgh, Pittsburgh 13, Pennsylvania.

Dr. Lillian Hethershaw Darnell is Lecturer, Community College, University, Des Moines, Iowa.

News and Views (continued)

New Title. Dr. Paul E. Blackwood is Specialist for Elementary Science, U. S. Office of Education, Department of Health, Education, and Welfare, Washington 25, D. C.

Union County, N. J., Regional School District No. 1 received a special Edison Foundation Citation for its efforts in developing more effective science teaching methods and a more effective science program. This is the first time the Edison Foundation has given such a citation to a school district. The award was accepted by Dr. Warren M. Davis, the district's superintendent of schools. Is he the only superintendent who is a member of NARST? The editor remembers well his earlier work in Alliance, Ohio.

New address. Dr. Ernest E. Snyder, Associate Professor of Science Education, and Chairman, Department of General Physical Science, Arizona State University, Tempe.

Among the several activities of the American Institute of Biological Sciences is the Biological Sciences Curriculum Study with headquarters at the University of Colorado, Boulder. NARST member Paul F. Brandwein has been appointed to the Steering Committee of BSCS. Paul also serves on the Physical Science Study Committee.

NARST Vice President Clarence Boeck was selected to serve on a committee of 30 geologists, teachers of geology, high school teachers, and educators to prepare materials for use in high school science classes. The Duluth Conference for Development of Teaching Resources in Geological Sciences meets in Duluth, Minnesota for 6 weeks beginning July 20 and is sponsored by NSF and The American Geological Institute.

The Fund for the Advancement of Education has granted Wayne State University \$700,000 for an experimental college which will open in September, 1959. A description appears in a printed booklet entitled Monteith College. A more complete description appears in a 54-page mimeographed document entitled An Experimental College at Wayne State University. The two may be ordered by title from Dr. Woodburn Ross, Director, Monteith College, Wayne State University, Detroit 2, Michigan. The basic courses in natural science, social science, and humanities offered by Monteith College are separate from the ones in those areas which have long been offered for general education by the College of Liberal Arts. The latter include a physical science course (8 sem. hrs.) and a biological science course (4 sem. hrs.) in which 1500-2000 students enroll each year. The Natural Science course in the new college is four semesters long.

Vaden W. Miles, Wayne State University, and William C. Van Deventer, Western Michigan University, prepared the March 1, 1959 issue of College and University Bulletin entitled "Research in Teaching College Science." The Bulletin has had a national distribution of 16,000 copies, including 6,000 administrators and 10,000 teachers. Additional copies are available. The Bulletin and a reprint of the Garret report are enclosed.