

N A R S T

Quarterly Newsletter
of the

National Association for Research in Science Teaching

Frank X. Sutman, Editor

1968 Fall Issue

Don't forget to plan to attend the 42nd Annual NARST Meeting
February 6-9, Sheraton-Huntington Hotel, Pasadena, California

President's Message

On behalf of the Executive Board of NARST, I should like to express the appreciation for your patience with our Journal publication schedule and other organizational difficulties we have had during the time I have been President. I believe that most of the scheduling difficulties for the Journal have been resolved by our new editor and his associates at Teacher's College. Jim Robinson has moved forward the planning for all issues to complete Volume 6, the first issues of which should be in press within the next few months. Craig Sipe has done the difficult job of completing Volume 5, and the last two issues are now in some stage of production or printing.

We will be writing to you shortly asking that you solicit new members for NARST. With the delays in our Journal publication, we have not actively promoted membership during the past year and we should like to put on a drive during the Fall months preceding our annual meetings in California. The financial requirements for maintaining the Editor's Office and other commitments we have require that we expand our Memberships and Associate Memberships in NARST. Wayne Taylor is printing additional membership blanks, and these will be mailed to you within the next few weeks.

We have submitted to the U.S. Office of Education a proposal for a research training project to be conducted prior to the annual meetings. As of this writing, the project has not been funded, but we remain optimistic regarding the potential. You may wish to consider participation in such a research training conference, or to identify other colleagues on your campus who would benefit from this kind of training program. If and when funds are available, we are likely to seek applicants on relatively short notice.

As Dr. Sutman has reported in another place in the Newsletter, we regret the passing of an energetic contributor to the profession of Science Education, the late Clarence Pruitt. With the death of Dr. Pruitt, we have lost an individual who has committed enormous energy to the publication of the journal SCIENCE EDUCATION, and for a number of years, to the office of Secretary of NARST. Dr. Pruitt did not always agree with his colleagues regarding some issues of science education, but I am sure all NARST members will acknowledge the contributions he made through his energetic publication and professional schedule.

Joseph D. Novak, President

(Ed. Note: Many items have been submitted by NARST members to be included in this Newsletter. To keep the Newsletter to a reasonable size for mailing purposes, the submitted items have been shortened.)

Special Announcements

W. C. Van Deventer reports that CLARENCE PRUITT, owner and editor of Science Education, died suddenly on August 13th. We all mourn the passing of Clarence, who has contributed in so many ways to the advancement of this profession. As one of the profession's founding fathers this untiring person has, in effect, recorded our history to date and has given many a beginning science educator his first opportunity to speak in writing to his colleagues and peers. Send condolences and inquiries to Mrs. Fredonia Pruitt, 407 South Delaware, Tampa, Fla., 33606. Mrs. Pruitt announces that the journal Science Education is suspending publication for the time being.

MARVIN DRUGER, 410 Lyman Hall, Syracuse U., announces that a Placement Information project is under way designed to make available to all NARST members the names of graduate students seeking employment in 1969-70, and a list of available positions. This information will be completed and sent to all NARST members. Interested persons can then make their own contacts. Write to Dr. Druger for further information or registration cards.

S. G. BROUGH reports the Fall International Science Education Symposium "Science Evaluation: Students, Teachers, Programs," will be held November 21 & 22 at the Univ. of British Columbia. Requests for information and registration should be directed to Janice Woodrow, Faculty of Education, U.B.C., Vancouver 8, B.C., Canada.

ALBERT EISS announces NSTA is sponsoring a series of institutes on evaluating science programs during 1968-69. Four sessions are planned for college science teachers. The Educational Research Council of America and the Ohio Academy of Science are cooperating as well as the Pennsylvania Academy of Science. Other institutes will be held in conjunction with the NSTA Regional Conferences at Little Rock and Las Vegas. Evaluation institutes for science supervisors in cooperation with NSSA, a section of NSTA, will be held in Atlanta in December, and two others are yet to be scheduled. These institutes are designed to assist participants to evaluate their complete instructional systems, and were planned from materials that were pre-tested in Nova Scotia during the summer of 1968. For information write to: NSTA, 1201 Sixteenth St., N.W., Washington, D. C. 20036.

ROBERT YAGER reports a committee he is chairing is at work revising NARST By-laws. Members include Dick Haney, Clarence Boeck, and Ellsworth Obourn.

Editor's Message - Science Education Profession is Influential!

Since many NARST members are also AETS members, it seems appropriate to comment on the concern of Stephen Winter, AETS President, that science educators do not exert the influence they should in American education (see AETS Newsletter 2:2). Perhaps the Profession, measured in terms of federal grants, appears not to be influential. However, examining the activities of a sampling of science educators, as reported in this NARST Newsletter, might indicate that members of the science education profession may have a greater influence on American education than we suspect. It becomes clearer that the millions of federal dollars poured into curriculum projects and the like, in reality is having relatively little effect. As in many other situations, the greatest influence may come from unsuspected sources. The great human resources within the profession of science education may well be making its mark. F.X.S.

New Appointments and Addresses

GENE HALL joined the faculty of the Science Ed. Center, University of Texas at Austin ... New to the Science Ed. staff at Temple University are CHESTER RAUN, WAYNE RANSOM, and JOSEPH SCHMUCKLER ... STEPHEN WINTER has been appointed Director of Teacher Education at SUNY at Buffalo ... on Jan. 1 FRANKLIN FISK will become Assoc. Prof. of Science Ed. at Western Michigan University ... BEVERLY MILLER was appointed the first lay Vice President of Mary Manse College, Toledo, Ohio ... L. W. MILLER, Dean, School of Natural Sciences, Chico State College, Calif., is retiring from his position; interested candidates should contact Dr. Dallas Sutton, Professor of Biological Sciences at Chico ... LUTHER ARNOLD, Univ. of Fla., is Executive Secretary, Florida Foundation for Future Scientists, for the 11th consecutive year ... JOHN SCHAFF joined faculty of Syracuse University ... SAMI BOULOUS is Chairman, Dept. of Elementary Ed., SUNYC at New Paltz ... ROBERT HANSON is now part-time executive secretary of the Iowa Academy of Science ... KEN ANDERSON, past president of NARST, resigned from his position of Dean, College of Ed., University of Kansas, to resume full time teaching ... PAUL JOSLIN, Drake University, Des Moines, appointed to Iowa Conservation Education Council ... BELLE SHAREFKIN, Brooklyn College, is Coordinator, Graduate Program for a Special Curriculum in Science for Elementary Teachers ... HAROLD SPIELMAN, City College, N.Y., is Chairman, Dept. of Secondary Ed. ... RICHARD A SMITH is Chairman, Dept. Natural Science, San Jose State; also he is Chairman, Calif. State Advisory Comm. on Science Ed. to the Calif. Board of Ed. ... JOSEPH LIPSON is working at Nova University ... DOUGLAS ROBERTS is at the Ontario Institute for Studies in Education ... FRED PREGGER, Trenton State, N. J., appointed Coordinator, Physics Dept. ... JOHN PANCELLA is Supervisor of Science, Montgomery Co., Md. ... GRETA OPPE is retired after 50 years in Galveston Public Schools ... B. J. SYROCKI, SUNYC at Brockport, Coordinator of Audio-Video Tutorial Program in Principles of Biology, has returned to teaching Botany ... SHEPARD FABER is Coordinator of the Physical Science General Ed. program at the University of Miami, Coral Gables ... RAY SNIDER, SUNYC at New Paltz, is Acting Director, Center for Continuing Education ... JAMES PIERCE is Lecturer in Education, Indiana University Southeast ... JAMES RUTLEDGE appointed Assistant Dean, Graduate College, University of Nebraska ... GLENN CRUMB is Coordinator of the Research & Grants Center, Kansas State Teachers, Emporia ... M. E. MYER is Assoc. Prof. of C & I, University of Tennessee, and Assoc. Director, Educational Opportunities Planning Center ... JOHN TRENT is Assoc. Prof. of Science Ed., Univ. of Nevada, Reno ... LEO KLOPPER now Assoc. Prof. of Ed. and Research Associate in the Learning, Research, & Development Center, Univ. of Pittsburg.

Awards

ALBERT PILTZ has been given the Superior Service Award by USOE for meeting critical needs in the O.E. during demanding periods of reorganization and program expansion.

PAUL JOSLIN, Drake University, Des Moines, has been elected a Fellow of the Iowa Academy of Science.

NEW BOOKS AND OTHER PUBLICATIONS

- ABRAHAM FISCHLER, The Development of An Observational Instrument for Science Teaching, Journal of Research in Science Teaching, 5:2; The Biology Teacher as a Researcher, The American Biology Teacher...
- HAROLD SPIELMAN & DAVID SARNER, TEMPUS: A Program to Prepare Teachers for Urban Schools, Science Education, 52:115-119 ...
- JOHN PANCELLA, Co-editor Studying Teaching, Prentice Hall ...
- FRANK SUTMAN, Laboratory Teaching in Medical Technology, American Journal of Medical Technology ...
- JAMES PERLMAN, The Atom and the Universe, Wadsworth Publishing Co. ...
- GEORGE MALLINSON, Characteristics of Non-College Vocationally-Oriented School Leavers and Graduates, Bureau of Research O.E. ...
- PEARL NELSON, Elementary School Science Activities, Prentice Hall (methods text) ...
- HULDA GROBMAN, Evaluation Activities of Curriculum Projects, (AERA Monograph), Rand McNally ...
- ALBERT PILTZ co-author, Discovering Science (for pre-school and kdg.) Charles Merrill Publishing Co. ...
- JAMES ROBINSON, The Nature of Science and Science Teaching, Wadsworth Publishing Co. ...
- STANLEY BROWN, and BARTON VOSS co-authors of Biology as Inquiry, A Book of Teaching Methods, C. V. Mosby & Co. ...
- M. IRA DUBINS, Earth Science, Tests for Grades 8-12, Harcourt, Brace & World, Inc. ...
- LESLIE TRAWBRIDGE co-author, Science Through Discovery, L. W. Singer...
- ART CARIN, Teaching Science Through Discovery has been translated into Japanese ...
- NATHAN WASHTON, Teaching Science Creatively in the Secondary Schools, W. B. Saunders, was reprinted in Tokyo, Japan ...
- HERMAN KRANZER, Conflicts in Conservation: Implications for the General Education of All College Students, Bio Science ...
- WILLARD JACOBSON, USA: Post-Sputnik Science Curricula, Strategies for Curriculum Change, Cases from 13 Nations, International Textbook Co. ...

NARST SLATE

At the time of this Newsletter, the slate for NARST officers for the coming year is not complete. You will receive a separate mailing of the proposed ballot from Stephen Winter, Chairman of the Nominations Committee.

Special Projects

PHILIP JOHNSON, Prof. Emeritus, Cornell, is at the Univ. of Costa Rica on a project for the improvement of science teacher training ... SEYMOUR TRIEGER, for 1968-69, to work on Elem. Science Methods text, Addison Wesley ... ALAN VOELKER, Ohio State Univ. is the Coordinator of an experimental program in teacher education for the Faculty of Science and Mathematics Education ... EINAR GRELL, Huntington, N.Y., was one of 20 to participate in a Drug Abuse Conference in San Francisco ... ASHLEY MORGAN announces the Dept. of Science Ed. at the Univ. of Southern Mississippi has graduated its first doctorates ... JOHN CUNNINGHAM, Kenne State College, N.H., participated in writing conference of ISCS and continues as an ISCS Trial Center Director ... O. HENRY will be pleased to receive comments and suggestions from NARST members regarding the improvement of contributions to the field of science ed. by the Nalge Co., Sybron Corp.; write to P. O. Box 1, Honeoye, N.Y. 14471 ... J. LEAR WINSLOW of Greenville College, Ill., directed a three week Field Geology Tour to Colorado and South Dakota; also served with VICTOR NOLL, Michigan State, as research consultant to Elk Grove, Ill., School District ... JAKE BLAKENSHIP has been involved in creation of a Science Teaching Center, Oklahoma State Univ. LESLIE TROWBRIDGE and ROBERT SUND, Colorado State, Greeley, worked in Peace Corps Training in Hilo, Hawaii ... WILLARD JACOBSON, Teachers College, Vice President AAAS and Chairman Section Q - Education; with ALLAN KONDO has developed a teacher education program for SCIS described in SCIS ELEMENTARY SCIENCE SOURCEBOOK, for information: SCIS, U. of Calif., Berkeley, Calif. 94720 ... STANLEY BROWN, the Univ. of Utah, is assessing the teaching of science in a USOE-Indiana Univ. Project A Comparative Study of Academic Achievement of Secondary School Students of England, Scotland, Northern Ireland, and the U.S.A. JAMES ROBINSON appointed to CUEBS ... PEARL NELSON, Boston Univ., visited an Elementary Science Center of the Nuffield Foundation project ... SIDNEY BLUM, Project Director, Baltimore Secondary School Demonstration Center for Urban Youth; lecturer Loyola College ... MICHAEL FIASCA, Portland State, American representative to International Union of Scientist Meetings in Varna, Bulgaria, Sept., 1968; Presently Co-Director of NSF project on integrated biology-Chemistry-physics course for secondary schools ... DAVID LOCKHARD, Science Teaching Center, Univ. of Maryland, granted \$50,000 by NSF for a study of Inexpensive Science Teaching Equipment Worldwide ... GEORGE MALLINSON elected to Board of Directors, American Assoc. of Workers for the Blind; he and Mrs. Mallinson are consultants to Norfolk Va. City Schools ... HERMAN KRANZER of Temple Univ. will lead a Study Abroad Tour of Northern Europe during summer 1969; he and FRANK SUTMAN are Co-Directors of a Fellowship Program for Puerto Rican teachers ... STEPHEN WINTER will be on sabbatical with UNESCO in January ... R. BUELL is President-Elect, Phi Kappa Phi Chapter, Univ. of Toledo and President, Toledo Chapter, Archaeological Institute of America ... FRANKLIN FISK was Director of an NSF Summer Institute for Secondary School Teachers in the History and Philosophy of Science ... BURTON VOSS is to be 1969 President of NABT ... DOUGLAS ROBERTS is serving as a consultant in physical sciences to Future Schools Study Project, Albuquerque Public Schools ...

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(Special Projects Con'd)

GLENN CRUMB has just released the final report of the Belmont Conference on Elementary School Science & Mathematics ... KENNETH GEORGE, Univ. of Pennsylvania, received a third grant from NSF for the preparation of science leaders for the Philadelphia Schools; also a grant from the Philadelphia School District to establish a Science Demonstration School ... WAYNE WELCH, Project Evaluation Coordinator of Harvard Project Physics, reports the four year evaluation is nearly completed. Plans are to have a document summarizing the findings available for persons interested in the Project; expected publication date is Spring 1969. Meanwhile, a bibliography of published research and evaluation articles is available from Dr. Welch at 8 Prescott St., Cambridge, Mass. 02138. A limited number of reprinted articles is also available ... PAUL BRANDWEIN, elected President, Center for Study of Instruction, a Division of Harcourt, Brace & World, Inc. The Center is given over to research in instruction and curriculum. Work now proceeding includes attempts to confirm a variety of Piaget's experiments, and others ... KENNETH JERKINS, Morgan State College, is engaged in the development and evaluation of a 'student-centered laboratory oriented' approach to graduate level science education for elementary school teachers ... PETER SHORESMAN, Univ. of Illinois, joined the staff of a new curriculum development project in Math/Science, directed by Prof. Max Beberman of the Univ. of Ill. Materials are being developed in a local elementary school. During the past summer Dr. Shoresman supervised the writing and publication of the final report of the Elementary School Science Project (ATKIN-WYATT Astronomy Project) for which he had served as Director of Research. He presently acts as evaluation consultant for a new elementary school science series being published by Scott Foresman Pub. Co. ... CHARLES BREEDLOVE is Director of an NSF sponsored Physics Teaching Project at Eastern Michigan Univ. for 95 students attending four high schools about 35 miles from the campus. Lectures are given three days each week through use of an 'electronic blackboard' and a two way audio communications system. Student teachers are conducting a laboratory program and leading recitation on the other two days each week. Feedback sessions are held at the University, and an evaluation of the project and the student learning are in progress. ...

Papers and Meetings

BERNARD GORDON, Northeastern Univ., Boston, presented papers at the 17th International Limnological Congress in Jerusalem and in Paris at the 12th International Congress of the History of Science ...

ROBERT SUND addressed South Western Regional Science Teachers Assn. in Las Vegas and Louisiana Science Teachers Assn., New Orleans, on the techniques for teaching science by inquiry ...

DAVID VITROGEN delivered a paper entitled A Creative Approach to The Teaching of Science to Disadvantaged Children, at the Northeast Regional Conference of NSTA ...

ERNEST RIGGSBY, Auburn Univ., participated in meetings in Mexico City and Monterrey ...

ABRAHAM FISCHLER will give a paper at the UNESCO meeting on Science Education in Paris ...