



NARST

Newsletter

NEWSLETTER OF THE NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING

Vol. 17 No. 4

April 1976

FROM THE PRESIDENT'S DESK

What Is The Basis For Practice in Science Education?

Implicit in the efforts of scholars in an applied field such as science education is the assumption that the results of their scholarship will influence educational practice. The expectation that change will occur is one of the motivations of the science education researcher. Optimism that such research-based changes are occurring today, however, does not seem to be particularly high. Evidence that research is influencing practice in science education is not abundant.

This situation is influenced by many factors but it is suggested here that one of the major causes is that scholars in the field of science education are not providing the broad conceptual framework needed as a rationale for classroom practice. Practice often is influenced by advocates whose position is based on personal experience, independent of a rationale that is consistent with the results of empirical research, careful consideration of competing values and a thoughtful synthesis of these empirical results and value judgments. Rather than providing a broad and substantiated conceptual foundation for the field and using this foundation as a basis for influencing practice, the science educator often is an advocate of preferences growing out of personal successful experience or observation of another person's apparently successful experience.

One major means of translating ideas into practice is the production and dissemination of new classroom materials. Such activity has received major attention during the past two decades. Review of the majority of these materials, however, only serves to substantiate the viewpoint expressed above, i.e., current science education practice is not based on a comprehensive conceptual framework consistent with thorough analysis of alternative values or the diverse available sources of empirically-based research. It appears that most often curriculum materials are an outgrowth of a more narrowly-based viewpoint derived from an overriding adherence to a particular assumption about the nature of science, the relationship between cognitive and affective learning, societal needs, or some similar matter. This is

not to say that the rationale underlying a particular curricular package is wrong. It is to say simply that in most cases we have not been provided with, nor are we seriously seeking the evidence that corroborates or negates the rationale in its totality. Current practice is dominated by a hodge-podge of approaches based upon peculiar personal preferences and assumptions. Rare is the curriculum developer who employs a conceptual framework rooted in the totality of results of empirical research and philosophical analyses pertaining to social interaction, intellectual development, personality, acquisition of science concepts, communication, reading, listening, adolescent peer influences, societal influences on schools, science knowledge needed for citizenship, the nature of science, pressing social problems and a variety of other pertinent matters.

Scholars in the field of science education need to give greater attention to the conceptual framework for practice in their field. They need to give greater attention to acquiring an understanding of the results of empirical research in a wide range of related fields. More attention needs to be given to analysis of the value questions faced in determining science teaching practice. Furthermore, there is a critical need for extending these steps to include the building of a total conceptual framework that integrates these many facets (this statement does not imply that there is only one such viable framework). Such serious intellectual work has implications for more than classroom practice. It has potential for substantially influencing the empirical research conducted by science education; it can influence the research questions addressed.

In more specific terms, the following actions are being suggested. Scholars in the field of science education should devote more time to reading the results of research in a wide variety of related fields. More of our research studies should be philosophical analyses; in a recent year only three of the 375 research studies identified as science education studies were philosophical treatises. More research reviews should be prepared which synthesize the results of a wide variety of studies; the Review of Educational Research can provide some good modes models. This serious scholarly activity should be utilized as the basis for further research and for making decisions about classroom practice. Science educators need to take the initiative in providing the conceptual framework for research and practice in science teaching.

Ronald D. Anderson

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FROM THE EXECUTIVE SECRETARY

We are pleased to have the NARST executive office on the Drake campus, and we shall endeavor to serve your professional needs to the best of our abilities. We hope that the stability of a five-year agreement will enable us to attempt some long-range projects.

As a starter I would like to set up a system that would enable us to identify persons of like research and to organize them into teams to conduct research that cannot be done by an individual or even a group of colleagues on the same campus. I am asking each of you to file with us a membership blank. This will be used to set up our computer membership record. Our computer would not read the old tape from Penn State, and since we have been forced to start from scratch, this is a convenient time to revise the membership record.

Tear off the back sheet. Fill it out and return it to me. Do it now, today. It will only take a moment of your time and will save us hours later. Please!

We have also attached a reservation sheet for the annual meeting. Send it back too.

You were very good about sending in news with your dues statements. For several reasons we have kept this newsletter short and could not use all the news you sent. We'll try to catch up in the next issue.

I look forward to seeing you at the annual meeting in San Francisco.

Paul Joslin

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MEMBERSHIP NEWS

Dorothy Andrews (Harvard) was named the 1975 outstanding biology teacher by NABT.

Robert C. Crocker (Memorial, Canada) is now Director of the Institute for Educational Research.

Gene Deady (Chico State) is President of the California Inter-Science Council.

Dwight Ellis (Maine) is teaching science in Gardiner, ME and continues his interest in the morticians art.

PLACEMENT INFORMATION

The Placement Committee has distributed the initial listing of Employment Opportunities and Persons Seeking Employment. Any NARST member who did not receive either or both of these listings should contact the placement coordinator. A list of the most recently announced positions and additional persons seeking employment is included with this newsletter. A further update of both lists will be available at the annual meeting.

We'd like to remind NARST members seeking employment that by keeping self-addressed, stamped envelopes on file with the placement coordinator, you can receive notification of positions as soon as they are announced. This procedure works well. We'll let people know when their last envelope has been used.

The placement committee is going to scan the listings of positions announced at AACTE and AERA and identify those which might be of interest to science educators. These will be compiled and distributed upon request. NARST members wanting a copy of these listings should send the Placement Coordinator a large self-addressed, stamped envelope. (A complete list of the ASCUS/AACTE vacancies can be obtained from Ms. Janet Kerstein at ASCUS, Box 2151, Madison, Wisconsin 53701 for a fee of \$10). NSTA's Employment Registry is another source of help in seeking positions. Write or call (202-265-4150) Dorothy Culbert at NSTA Headquarters for additional information.

We'd like to remind you that the placement committee will hold a workshop at the annual meeting designed to improve participant's resumes. Our intent is to have persons who have had positions indicate what they they look for in an initial screening process. Those who have prepared resumes can bring them to this session and have them reviewed. See the convention program for the time and place.

Alan M. Voelker

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MEMBERSHIP NEWS

Seymour Fowler (Pennsylvania University) is President of the Pennsylvania Science Teachers Association.

Marjorie Gardner (Maryland) received an honorary doctorate from Utah State June 1975.

Pauline Gratz (Duke) received the Distinguished Undergraduate Teaching Award for 1975.

James Irving (Wisconsin) is full time minister of the Edgerton, Wisconsin First Congregational Church of Christ.

John Koran (Florida University) with Theodore Benjamin (CUNY) was in Africa to evaluate the African Primary Science Project.

PERSONS SEEKING EMPLOYMENT

NAME: Thiele, Eberhard H.
ADDRESS: 3010 Smyth #23
Berkeley, CA 94720
PHONE: (office) 415-642-3942
(home) 415-841-6505
DEGREES: M.S. or M.A., July 1970
Ph.D., June 1976 (expected)
INSTITUTION GRANTING HIGHEST DEGREE:
University of California, Berkeley
SPECIAL INTERESTS: Continuation of
Ph.D., research directed towards the
goal of identifying and emphasizing
aesthetic and other affective elements
in science and generating approach
behavior, improved performance and
lasting interests in the subject
matter.
TYPE OF POSITION(S) DESIRED:
Asst. Professor. Teaching areas:
Environmental/Outdoor/Science Ed.,
Ecology, Natural Resources, Envir.
Science, Gen. Sci., Gen. Biol.
Emphasis on non-science majors,
research in methodology.

EXPERIENCE: College teaching, 3½ yrs.,
full time in ecology, nat. resources,
and gen. sci. with emphasis on biol.;
3 yrs. in environmental educ. as leader
of environmental educ.; 6 yrs. experience
with forest resources as professional
forester.; 2 yrs. of graduate work
leading to sec. teaching credential and
M.A. in nat. sci. with envir. emphasis.;
1 yr. in graduate program in wildland
resource science.; 3 yrs. graduate work
in science/environmental educ.
RESEARCH INTERESTS AND CAPABILITIES:
Dissertation Title: Affective/Aesthetic
Elements in Science Instruction. A
Teaching Model. My general research
interest is the affective domain as it
is applicable to sci. and envir. curricu-
lum and methodology and to cognitive
achievement.

NAME: Rowell, Richard M.
ADDRESS: 3 Stone Hall
Cornell University
Ithaca, NY 14853
PHONE: (office) 607-256-5410
(home) 607-257-3915
DEGREES: M.S. or M.A., 1970
Ph.D., 1976
INSTITUTION GRANTING HIGHEST DEGREE:
Cornell University

SPECIALIZED INTERESTS: Modules/mini-
courses, learning theory, teacher
training, science educ. research.
TYPE OF POSITION DESIRED: Science
Education, Biology.
EXPERIENCE: 7 years secondary school
biology teaching; 3 years audio-
tutorial; 1 year lecturer in Science
Education.

NAME: Allen, Thomas E.
ADDRESS: 1901 Myrick Road
Tallahassee, FL 32303
PHONE: (office) 904-644-6234
(home) 904-386-2387
DEGREES: MEd, 1962
M.S., 1969
Ph.D., 1976
INSTITUTION GRANTING HIGHEST DEGREE:
Florida State University
SPECIALIZED INTERESTS: Science
Education, Elementary Education,
Research in Cognitive Development,
Research in Teaching Strategies.

TYPE OF POSITION DESIRED: Teacher
education, Educational research.
EXPERIENCE: 11 yrs. of non-college
teaching, 5 yrs. college teaching
(sci ed); **Conducted** 7 NSF/BSCS In-
service institutes; Involved in writing
11 textbooks; Staff consultant for
BSCS (1yr.); Member of Proj. LEO re-
search team at Florida State Univ.
which generated 11 papers for NARST
(1973-74). Presently investigating
disruptive behaviors in elem. school
children.

NAME: Garrigan, George A.
ADDRESS: 112 Tudor Road
Ithaca, NY 14850
PHONE: (office) 607-256-7741
(home) 607-272-7663
DEGREES: M.S. or M.A. 1960
Ph.D., 1974
INSTITUTION GRANTING HIGHEST DEGREE:
University of Iowa
Iowa City, Iowa
SPECIALIZED INTERESTS: Adult educ.
in Chem., especially in environmental
chem; developing modules having concept
base as suggested by Ausubel.
TYPE OF POSITION(S) DESIRED: Teaching
gen. and/or environmental chemistry;
science education

EXPERIENCE: Research Assoc., ed.
specialist in land application of waste
program, Cornell U.; Assoc Dir.
pesticide study, U. of IA (74); Chem
Instr., St. Cloud State Col. (67-74);
Chem Instr., Dakota State Col. (63-67);
Chem and Physics Instr., St. Joseph's
College, Buea, West Cameroon, West
Africa (60-63); Courses taught include
general, organic and environmental
chem.; sci educ; gen. sci. Individualized
instruction especially modules favored.
RESEARCH INTERESTS: Verbal structures
employed in chemistry teaching (O.R.
Anderson's Kinetic Structures)

NAME: Glenn, William H.
ADDRESS: 2411 Webb Avenue
Bronx, NY 10468
PHONE: (home) 212-584-3669
DEGREES: M.A., 1951
Ph.D., 1968
INSTITUTION GRANTING HIGHEST DEGREE:
New York University
SPECIALIZED INTERESTS: Earth Science
Curriculum Development; Competency-Based
Teacher Education; Urban Education.
TYPE OF POSITION(S) DESIRED: Science
Education: Secondary and/or Elementary
Science Methods; Secondary Education
Generalist; Teach Earth Science Courses.

EXPERIENCE: 6 years teaching science
education, Secondary/Elementary (Field
Based), Urban Education, Educational
Technology, and Geology Courses; Served
as Director of Student Teaching
(Secondary); Coordinator of Competency-
Based Teacher Education Program Design
(Secondary); 2 years supervisory and
14 years teaching experience in high
school physical science.

EMPLOYMENT OPPORTUNITIES

POSITION: Assistant Professor (Science)
LOCATION: Southern Illinois University
APPLY TO: Dr. Don Paige, Chairman
Department of Curriculum,
Instruction and Media
Southern Illinois Univ.
Carbondale, IL 62901
STARTING DATE: August 15, 1976
Application deadline is
March 31, 1976.

SALARY: Determined with experience &
background. Requires demonstrations
of productivity in research, teaching,
& service endeavors.
QUALIFICATIONS: Ph.D.-Science educ.
at elementary or secondary level or
both; teaching experience in second-
ary schools; work with both univer-
sity and public school personnel;
develop science and environmental
educ. curricular materials; engage in
empirical research; direct students
in theses and dissertations; evidence
of research and scholarly activity.
JOB Description: Teach graduate and
undergraduate science methods courses,
successful in-service education in
stitutes and workshops in science
and/or environmental educ.; teach
graduate level course in evaluation
and research methods; provide pro-
fessional education leadership at all
educational levels.

EMPLOYMENT OPPORTUNITIES

POSITION: Biological Educator--
Assistant Professor
(tenure track)
LOCATION: Central Michigan University
Biology Department
Mt. Pleasant, MI 48859
APPLY TO: Dr. Lawrence D. Koehler, Chairman
Department of Biology
Central Michigan University
Mt. Pleasant, MI 48859
STARTING DATE: August 1976

SALARY: Open
QUALIFICATIONS: Ability to teach biological science methods courses to students on the elementary (K-8) education curriculum. Teaching experience (K-8) is desirable; doctorate required.
JOB DESCRIPTION: Teaching Elementary Education methods courses in the Biology Department, teaching in conservation and/or Natural History (Nature Study), and advising students on the elementary education curriculum.

POSITION: Research Assistant Professor
LOCATION: Project City Science
New York University
APPLY TO: Dr. F. James Rutherford, Director
Project City Science
School of Educ., Health, Nursing &
Arts Professions
New York University
32 Washington Place, Rm. 52
New York, NY 10003
STARTING DATE: August 30, 1976

SALARY: \$13,000 - \$14,000 Academic Year
QUALIFICATIONS: Doctorate in Science Education within last 3 years, or to be conferred by September 1, 1976. Pre-college teaching experience.
JOB DESCRIPTION: Lead a team working on the overall improvement of intermediate and junior high school science teaching in one of the New York City school districts; help conduct preservice and inservice training programs in the field and at the university; carry out and supervise research.

POSITION: Assistant/Associate Professor
teaching professional courses
in middle school/junior high and
elementary education
LOCATION: Department of Curriculum and
Instruction
University of Northern Iowa
Cedar Falls, IA
APPLY TO: Dr. James O. Schnur, Head
618 Education Center
University of Northern Iowa
Cedar Falls, IA 50613
STARTING DATE: August 17, 1976

SALARY: Salary and rank will be related to experience and preparation and will be competitive. Benefits include TIAA, CREF, FICA, group life, disability and medical insurance.
JOB DESCRIPTION: (1) To teach the new middle school/junior high school methods and materials course; (2) To teach in the elementary methods and materials sequence; (3) To assume responsibility for teaching science education to elementary education majors (ESS, SCIS, SAPA); (4) To advise majors in the middle school/junior high school and elementary education programs; (5) To actively participate in curriculum development.

POSITION: Assistant/Associate Professor
of Science Education
LOCATION: East Carolina University
Greenville, NC
APPLY TO: Dr. Floyd E. Mattheis, Chairman
Department of Science Education
East Carolina University
Greenville, NC 27834
STARTING DATE: September, 1976

SALARY: Commensurate with qualifications and experience.
QUALIFICATIONS: Doctorate in Science Education with an active interest in research and in teaching undergraduates and graduates in Science Education.
JOB DESCRIPTION: Teach undergraduate and graduate courses in Science Education and survey science courses for elementary education majors.

PERSONS SEEKING EMPLOYMENT

NAME: Kermis, William J.
ADDRESS: 138 Polk Street
Syracuse, NY 13224
PHONE: (office) 315-432-2587
(home) 315-466-5040
DEGREES: M.S. or M.A., 1973
Ph.D., 1976 (anticipated)
INSTITUTION GRANTING HIGHEST DEGREE:
Syracuse University
SPECIALIZED INTERESTS: Human Genetics,
Secondary Sci. Educ., Secondary Teacher
Preparation, Devel. of CBTE in Secondary
Science.
TYPE OF POSITION(S) DESIRED:
Graduate & Undergraduate, Science
Education and/or Undergraduate
Biology.

EXPERIENCE: 1975-Instructor in Gen.
Sci., Dept. of Science Teaching, S.U.;
1973-75 Teaching Assist. in Genetics
Dept. of Biol., Syracuse U.; 1974 & 1975
(Summer) Instructor in Biol. - Univ.
College Higher Educ. Opportunity
Program; 1975 (Spring) Curriculum
Consultant State Educ. Dept. of N.Y.;
1973-75 Sci. Substitute Levels (8-12)
Liverpool School Dist., North Syracuse
School District.

NAME: Rastovac, John J.
ADDRESS: 1718 Ximeno Street, Apt. 14
Long Beach, CA 90815
PHONE: (office) 213-498-4829
(home) 213-597-8238
DEGREES: M.S. or M.A., 1972
Ph.D., 1975
INSTITUTION GRANTING HIGHEST DEGREE:
Purdue University
SPECIALIZED INTERESTS: Mastery learning
theory, cognitive development and
Piagetian theory, methods in sec. sci.
teacher training, minicourse development
applied to self-paced instruction.
TYPE OF POSITION(S) DESIRED: Univ.
teaching and research; training and super-
vising sec. sci. teachers; human anatomy,
physiology.

EXPERIENCE: Lecturer: human anatomy
and sec. sci. methods - CSULB; instruc.
anatomy & physiology - Purdue (73-75);
course developer: anatomy & physiology-
Purdue (72-73); teaching asst: intro
bio - Purdue (70-72) & cell bio. -
Purdue (sum 71); consultant: N. Judson
H.S., N. Judson, Ind. (74-75); A-T Unit
developer: NSF grant, Instructor
Improvement Prog., Farragut H.S.,
Chicago, IL (74-75).

NAME: MacMillan, Gerard F.
ADDRESS: 1115 Carver Street
Iowa City, IA 52240
PHONE: (office) 319-353-4481
(home) 319-354-3990
DEGREES: M.S. or M.A., May 1969
Ph.D., July 1976
INSTITUTION GRANTING HIGHEST DEGREE:
University of Iowa
SPECIALIZED INTERESTS: Science
Methods, Environmental Studies (and
Outdoor Education), Humanizing Educ.
TYPE OF POSITION DESIRED: Teaching
Sci Methods, Teaching Environmental
Studies Methods, Conducting workshops
and in-service courses for teachers,
Consulting.

EXPERIENCE: 11 yrs.: Jr., Sr. High
School Teaching; 4 yrs. Elem Sci
Methods (undergrad); 2 yrs. Environ
Studies (in-service teachers);
Environmental Studies Team Leader
and Instructor, Project ASSIST;
Environmentalist - Grant Wood Area
Education Agency

Over 100 teacher (in-service) Work-
shops, Instructor/Field Coordinator,
SSSTP field programs.

EMPLOYMENT ITEMS RECEIVED AT THE LAST MINUTE

POSITION: Temporary Assistant Professor
of Science Education
CATION: University of Georgia
APPLY TO: Prof. David Butts, Chairman
Dept. of Science Education
University of Georgia
Athens, GA 30602

STARTING DATE:

SALARY: Open - depending upon training
and experience. Appointment
for 1 year.

QUALIFICATIONS: A doctoral degree in
Science Educ., teaching experience
at the elementary school level. Ex-
perience with Field-Based Teacher Educa-
tion is preferred.

JOB DESCRIPTION: One position will be filled.
It will involve opportunities for work in
three of the following five areas depending
upon the candidate's experience and training:
1. Working in the undergraduate professional
sequence for elementary teachers currently
under development which includes a field-
based C.B.T.E. emphasis; 2. Working in gradu-
ate-level instruction as part of masters and
doctoral programs in Science Education; 3.
Supervision of graduate research; 4. Skills in
research methodology, instrumentation and
evaluation design; 5. Assisting school
districts in implementing improved science
instruction.

MATH/SCIENCE EDUCATION: DEGREE: All candidates should have an earned doctorate;
EXPERIENCE: Public school teaching. Also all Education Department members are expected
to advise students and participate in program and curriculum development; DESCRIPTION:
Involves the teaching of Math and Science methods courses in undergraduate and graduate
teacher education programs. Additional teaching responsibilities may include courses
in Environmental Education and Early Childhood; RANK: Assistant Professor; CONTACT:
Dr. Michael J. Masucci, Chairman, Education Department, Salisbury State College, Salis-
bury, Maryland 21801.

(an ASCUS/AACTE listing)

MATH AND SCIENCE - SECONDARY EDUCATION; DEGREE: Doctorate completed or near completion,
major academic preparation in 1 discipline, with a minor, or its equivalent, in the
other; EXPERIENCE: Teaching experience at the secondary level; DESCRIPTION: Teaching
team-taught undergraduate courses within a field-based, competency-based program; RANK:
Assistant or Associate Professor; CONTACT: Dr. James Rex, Chairman, Division of Educa-
tion, University of South Carolina-Coastal Carolina College, Box 275, Conway, South
Carolina 29526.

(an ASCUS/AACTE listing)

MATH AND SCIENCE - ELEMENTARY EDUCATION; DEGREE: Doctorate or near completion, formal
preparation in the teaching of elementary math and science methods; EXPERIENCE: Teaching
experience that includes the teaching of math and science at the elementary school level;
DESCRIPTION: Teaching team-taught undergraduate courses within a field-based, competency-
based program. Responsible for teaching math and science methods to elementary education
majors; RANK: Assistant or Associate Professor; CONTACT: Dr. James Rex, Chairman,
Division of Education, University of South Carolina-Costal Carolina College, Box 275,

Conway, South Carolina 29526.

(an ASCUS/AACTE listing)

EDUCATION: EMPHASIS MATH AND SCIENCE; **DEGREE:** Doctorate; **EXPERIENCE:** Previous school experience; **DESCRIPTION:** Teach graduate and undergraduate courses in math and science, supervise student teachers, other committee and school duties; **RANK:** Instructor or Assistant Professor; **CONTACT:** William P. Barone, Acting Dean, Duquesne University, School of Education, Canenin Hall, Pittsburgh, PA 15219.
(an ASCUS/AACTE listing)

SCIENCE/MATH ELEMENTARY AND STUDENT TEACHING SUPERVISION; **DEGREE:** Doctorate in area preferred; **EXPERIENCE:** Public school experience; **DESCRIPTION:** Supervise student teachers in elementary education and teach courses in science/math elementary; **CONTACT:** Robert T. Alciatore, Division Director Division of Education, The University of Texas at Texas at San Antonio, San Antonio, TX 78285.
(an ASCUS/AACTE listing)

SCIENCE & MATH EDUCATION; **DEGREE:** Doctorate in field; **EXPERIENCE:** Successful teaching in the public schools; **DESCRIPTION:** Methods, materials and experiences in modern math and functional approach to science. Science in the secondary school, teaching undergraduate and graduate; **CONTACT:** Dr. Ralph A. Forsythe, Director, School of Education, University of Denver, University Park, Denver, CO 80210.
(an ASCUS/AACTE listing)

ASSISTANT PROFESSOR; **DEGREE:** Doctorate required; **EXPERIENCE:** public secondary school teaching experience; **DESCRIPTION:** Science and mathematics specialist with a generalist focus in secondary education. Additional competencies in the following areas are required: (1) Proficiency in developing projects, grants and program offerings, (2) Field work supervision, (3) Coordination of student-teaching program; **CONTACT:** Marian Wagstaff, Chairperson, Department of Secondary Education, California State University, Los Angeles, 5151 State University Drive, Los Angeles, CA 90032.
(an ASCUS/AACTE listing)

SCIENCE EDUCATION; **DEGREE:** Ph.D. or Ed.D. in science education or closely related field; **EXPERIENCE:** Minimum 3 years teaching experience; experience in competency based education and environmental education programs desirable; strong research skills; **DESCRIPTION:** instruction at the graduate and undergraduate level, direction of students in independent study activities, research, development or research proposals, and supervision of graduate student research activities, program development, student advisement, university service; **RANK:** Assistant or Associate Professor; **CONTACT:** Dell Felder, Chairperson, Curriculum & Instruction, L. Y. Hollis, Associate Dean, University of Houston, College of Education, 254 Farish Hall, Houston, Texas 77004
(an ASCUS/AACTE listing)

SCIENCE EDUCATION; DEGREE: Doctoral degree, broad academic preparation in the sciences, in-depth academic preparation in one science discipline to the extent of MS degree; EXPERIENCE: Demonstrated research capability or evidenced by production, respected ability as a teacher, elementary and/or high school science teaching; DESCRIPTION: The position involves: 1) teaching methods courses in the teaching of science at the elementary, middle, and high school levels; 2) coordinating student teaching and internship assignments; 3) supervision of student teaching and interns; 4) directing graduate students at the M.S. and Ph.D. levels; 5) developing programs in science teacher training; 6) and conducting preservice and inservice workshops; RANK: Assistant/Associate Professor; CONTACT: Milton O. Pella, Chairperson, Science Education Search Committee, University of Wisconsin-Madison, Teacher Education Building, 225 N. Mills Street, Madison, Wisconsin 53706.

(an ASCUS/AACTE listing)

CANDIDATE'S VITA RECEIVED AT LAST MINUTE

NAME: Wheeler, Alan E.
ADDRESS: 14312-92 Avenue
Edmonton, Alberta
Canada T5R 5B2
PHONE: (office) 403-432-4124
(home) 403-488-6015
DEGREES: Ph.D.; anticipate
Sept. 1, 1976
INSTITUTION GRANTING HIGHEST DEGREE:
University of Alberta
SPECIALIZED INTERESTS: Cross-cultural
Science Teaching, Sports: jogging,
tennis.
TYPE OF POSITION DESIRED: Education
(Science Education), Teacher Education.

EXPERIENCE: 1964-67: Science Teacher
Chem., Physics - High School; 1967-72:
Science Instructor in Overseas assignment;
1972-75: Graduate Student-Science Education;
1975-76: Instructor Dept. of Elem. Educ.
RESEARCH INTERESTS AND CAPABILITIES:
Ph.D. dissertation - The Role of the
Proportionality Schema in Introductory
High School Chemistry.

Reservation Form

Reservation Cut-off Date: April 15, 1976

NARST ANNUAL MEETING
April 22-25, 1976

Reservations will be held until 6 p.m. unless otherwise guaranteed by a first night deposit or company guarantee. All requests must be received prior to the above cut-off date. Requests received after the above date will be assigned on an available basis.

Per Day Convention Rates:

- _____ Single room for one (\$24.00)
- _____ Double bed for two (\$34.00)
- _____ Twin beds for two (\$34.00)

Return Reservation form to:

Sir Francis Drake Hotel
Powell and Sutter Streets
San Francisco, California
94101

Arrival date _____ Hour _____ am/pm Departure Date _____

Name _____

Company or Institution _____

Address _____

City _____ State _____ Zip Code _____

PRE-REGISTRATION

NARST 49th Annual Meeting, April 23-25, 1976
San Francisco - Sir Francis Drake Hotel

Name _____

Mailing Address _____

_____ (city) (state) (zip code)

DUES: (1976) \$22.00 \$ _____

REGISTRATION (all registrations include awards luncheon)

No. _____ @ \$20.00 _____

RESEARCH TRAINING SESSIONS

No. _____ @ \$3.00 _____

EXTRA ABSTRACTS

No. _____ @ \$3.00 _____

TOTAL \$ _____

DO NOT WRITE IN THIS SPACE
Check No: _____
Check Date: _____
Bank No: _____
Amount: _____
Dep. Slip No: _____

Return Pre-Registration to:

Dr. Paul H. Joslin
College of Education
Drake University
Des Moines, Iowa 50311

Deadline to pre-register:
April 10, 1976

NARST MEMBERSHIP RECORD

Name _____ Soc. Sec. # _____
First Initial Last

Which address do you want used for NARST communication? Home _____
Office _____

Home Address: _____
Street City State Zip

Office Address: _____
Building and Office Number OR Department

(Please use
shortest
possible
address)

College and/or University _____
City State Zip

Phones: Office _____ / _____ Home _____ / _____

Academic Rank: _____ Job Title: _____

Name of Department or Division: _____

Highest Degree: _____ from _____ Year _____

Class of Membership for 1976: Regular \$20.00 _____ Regular \$22.00 _____

Sustaining \$40.00 _____ Patron \$100.00 _____ Life _____

Year of First Membership: _____ Has your membership been continuous? _____

Are you currently retired? _____ Will you retire in '76 _____ '77 _____ '78 _____

From what Institution? _____

If you are a Life Member, please use the back of this sheet to give us as much detail as you can about it, such as how much, if anything, you paid, when, and to whom.

Please state as succinctly as possible what kinds of research you are doing and/or would like to do, and what types of research NARST could do if coordinated from this office. Continue on back.

RETURN IMMEDIATELY TO: Paul Joslin
NARST
Memorial 206
Drake University
Des Moines, IA 50311

NATIONAL ASSOCIATION FOR
RESEARCH IN SCIENCE TEACHING
206 Memorial Hall
Drake University
Des Moines, IA 50311

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