Candidates for Office - Iowa Science Teacher's Association

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machine incorrectly since the slot is asymmetrical. A 110 volt power source is the only essential for machine operation.

In previewing this film series, I was impressed most by the chemistry films. This series consists of five films dealing with concepts and eight with techniques. The concepts considered are those of volume, density, phase change, and buoyance. The technique films are concerned with filtering, decanting, and washing residues, using a burette, titration using phenolphthalein, and with weighing procedures using different balances. A single booklet accompanies the chemistry series. Running times (2 to 4 minutes), and content summaries for each film are included in the booklet.

The physics films seemed to be of generally poorer quality than those in chemistry. While this critique arises from a too-limited physics background to be valid, my opinion was that the concepts were treated too abruptly, needing the benefit of partial interpretation that the sound mechanism supplies to sound films. Five concepts in the physics series are applied to the ripple tank, this unifying theme strengthening the series I thought. The concepts are diffraction at obstacles of spherical and plane waves, diffraction at an aperture, reflection, refraction, and interference of wave patterns. Other films in the series deal with chain reactions, Rutherford-Royd's identification of alpha particles, Aston's mass spectrograph and Thomson's ray parabolas. The single booklet accompanying the series gives running times, content summaries of films and key points from each film. Discussion concerning such points before or after viewing the film would seem to adequately vitalize the concept to students, but this can hardly be interpreted as a strength of the series, since sound films have this quality inherent.

Biology films in the series are concerned both with techniques and with concepts. Even though each of the films comes with an explanation booklet, the concepts films needed sound for adequate interpretation in my opinion. Films are well animated and illustrate well the desired concept for persons already understanding the concept, but for the typical student in the classroom several sound films now available seem superior. Concepts filmed include circulation, breathing, mitosis, and heart action.

The technique films in the series are strong throughout. In previewing films, biology teachers should preview not only the biology series, which deal with various Drosophila techniques and with blood smear preparation, but they should also preview the series on chemistry techniques—especially if teaching is orientated toward physiology.

Finally in reference to the future of this program:

1. The program is a financial possibility for any self-respecting school. Projectors may be purchased starting at $69.50 and upwards to $100, depending upon model selection. Film cost is from $16 to $20 depending on film length, with several package “deals” possible.

2. The technique films could conceivably alter laboratory procedures in major ways. Techniques for preparation of blood smears, for etherizing fruit flies, or for titration with phenolphthalein, to mention just three, ordinarily must be repeated many times to be understood by the student. The 2-4 minute film showing a technique can be rerun as necessary by individual students, with no damage occurring to the film by such use, and by its silent nature, the film permits other classroom activities to proceed normally.

3. The technique films may better know our candidates and thus concepts may be reviewed during study periods on a checkout basis, just as books are checked out. As a review procedure, the films seem unsurpassed.

4. No doubt enterprising persons will film some of their own techniques (Biology teachers especially could profitably do so), so that students who are absent, or in need of repetitive explanation may obtain these without penalizing other class members. Indeed, it seems foreseeable that the laboratory could be the center of individualized instruction in the sciences, an objective we have verbalized for years.

CANDIDATES FOR OFFICE - IOWA SCIENCE TEACHER'S ASSOCIATION

Again this year our officers for the Iowa science Teachers' Association will be elected through mail balloting. Prior to October, 1963, the election was staged at the fall meeting held in conjunction with the Iowa Education Association Convention. The ballot by mail system was adopted so all members of ISTA may have an opportunity to vote for our officers even if they cannot be in attendance at the annual fall meeting. Results of this year's election will be announced at the Convention meeting in October.

Ballots will be sent to all active members of the Iowa Science Teachers' Association. These are to be returned to Warren Classen, Chairman of the nominating committee.

In order that you, as a voting member, may better know our candidates and thus
Officer Candidates for ISTA

David L. Fagle
Harold Elliott
Verlin Fleagle
Sister Mary Martina, C.H.M.
Agnes E. Spera
Cameron L. Christensen
Milbert H. Krohn
be adequately informed to make your choices, we are including the following roster:

**PRESIDENT**

David L. Eagle

Education training—
B.A. and M.A. Degrees from State College of Iowa; 31 semester hours of advanced work at Iowa State University, State University of Iowa, Drake University, and Indiana University.

Experiences in Education—
Community College instructor in Knoxville and Marshalltown, Iowa. Has also taught biology in Knoxville and Marshalltown high schools. Graduate teaching assistant at State College of Iowa. National Science Foundation Instructor at Iowa State University. Guest Lecturer at Indiana University. Chairman of Elementary Science Workshop. Program participant in local, state, and national scientific meetings.

General Statement—
"Professional organizations need dynamic people. It takes energy and drive in any group to keep it moving forward. Every person in a professional group must be actively interested in helping to make their organization better every year."

Professional Organizations—
American Association for the Advancement of Science, National Science Teachers' Association, National Association of Biology Teachers, Iowa Science Teachers' Association, Iowa State Education Association, National Education Association, Marshalltown Education Association, Midwestern College Biology Teachers' Association, Iowa Academy of Science.

Accomplishments—

Awards—Outstanding Freshman Chemistry Student - State College of Iowa '53: Kappa Delta Phi honorary education fraternity; Beta Beta Beta honorary biology science fraternity; Old Gold Award for outstanding scholarship in science '55; Marshalltown Community College Yearbook Dedication.

Professional—Member of the Socie-ty of American Microbiologists National Committee on Education; Regional Editor of the American Biology Teacher's Journal; Advertising Editor of the Iowa Science Teacher's Journal; Vice President of the Iowa Chairman for the American Biology Science Teachers' Association; State Science Teachers' Association; State Teachers' Association; and Member of the National Science Foundations Review Panel for Equipment Requests in the United States Colleges and Universities.

**VICE PRESIDENT**

Harold Elliott

Education Training—
B.A. degree from William Penn, M. A. Degree from State College of Iowa, Additional work from South Dakota State, North Texas State University and Knox College including work in PSSC Physics.

Experiences in Education—
Science instructor physics at Newton, Iowa, High School. Has taught at Deep River, Solon, and Nevada High Schools. Supervising Teacher in State College of Iowa Teachers' Training Program.

Professional Organizations—
Newton Community Teachers' Association, Iowa State Education Association, National Education Association, Iowa Science Teachers' Association, Iowa Academy of Science, Iowa Junior Academy of Science.

Accomplishments,
Awards from his community—
All expense paid trip to National Science Convention in Denver by Maytag Company.
All expense paid trip to National Youth Conference on the atom in Chicago, by the Iowa Southern Utilities Company.
All expense trip to National Association of Manufacturers, in New York, by the Newton Manufacturers Association.
All expense trip to a National conference on student teacher training, in Chicago, by Newton Community Teachers' Association.

Verlin Fleagle

Educational Training—
B.S. degree from Parson's College. Additional work from Central Missouri State College, State College of Iowa, and the State University of Iowa.
Experiences in Education—
BSCS blue version biology, advanced Biology, Chemistry and Physics in Hudson, Iowa High School. Will teach next year in the Central Community High School, DeWitt, Iowa.

General Statement—
“I will do anything which will help the Iowa Science Teachers’ Association in its growth.”

Professional Organizations—

Accomplishments—
Group Leader in the Iowa State Education Association Salary Committee. A Runner-up to the Outstanding Biology Teacher in Iowa - 1963. Presented a research paper in the Iowa Science Teachers’ Association Section Meeting at the Iowa Academy of Science Annual Meeting this year.

SECRETARY
Sister Mary Martina, C.H.M.

Education Training—
B.A. degree from College of St. Catherine in St. Paul, Minnesota. Additional work at the University of St. Louis, Southern Illinois University, and Wells College, Aurora, New York.

Experiences in Education—
Biology teacher at Dowling High School in Des Moines. A member of the Congregation of Sisters of Humility of Mary, Motherhouse at Ottumwa, Iowa. Chairman of Dowling High School Science Department and head of school Biology Department.

Professional Organizations—
National Association of Biology Teachers, Iowa Science Teachers’ Association, and Iowa Academy of Science.

Accomplishments—
Active participation in regional meetings of BSCS, Director of Scientific Manuscripts for the Iowa past two years. Currently assistant Junior Academy of Science for the director for the same position. In 1964 she was a runner-up to the Outstanding Biology Teacher in the state of Iowa.

Agnes E. Spera

Education Training—
B.A. degree from Omaha University, M.B.S degree from the University of Colorado (being completed this summer)

Experiences in Education—
Chemistry teacher in Council Bluffs. Has taught at Thurman and Mt. Ayr.

Professional Organizations—
Life Member of National Science Teachers’ Association, Iowa Science Teachers’ Association, Iowa State Education Association, C B E A, National Education Association, Iowa Academy of Science.

Accomplishments—
Regional Director (SW) for Iowa Science Teachers’ Association, Secretary to Council Bluffs Education Association.

TREASURER
Cameron L. Christensen

Education Training—
B.A. degree from State University of Iowa, M.S. degree from Washington, St. Louis, Missouri; Additional work at State College of Iowa, State University of Iowa, Ball State College, and Purdue University.

Experiences in Education—
Rockwell City Community Schools. Has also taught in Coggan, Indiana Schools, Manchester Public Schools, and Woden-Crystal Lake Consolidated Schools, Iowa Wesleyan College.

Professional Organizations—
National Education Association, Iowa State Education Association, Calhoun County Teachers’ Association, Calhoun County Council, Rockwell City Teachers’ Association, American Institute of Biological Science, National Association of Biology Teachers, Iowa Science Teachers’ Association, Iowa Academy of Science.

Accomplishments—
Offices Held: TEPS Committee Representative, Calhoun County Council.

Papers Presented: Collection and Culture of Lower Animal Forms, Iowa Academy of Science; Simple Radiation Studies for Secondary Biology, Iowa Academy of Science; The Geological Development of the
Calhoun County Soil and Its Relationship to Man, County Historical Society; Wild Flowers of Kalsow Prairie.
Honors: Linn County Conservation Scholarship, National Science Foundation Academic Year Institute, Outstanding Biology Teacher of the Year, Award for Iowa 1963.

Milbert H. Krohn

Education Training—
B.S. degree from Upper Iowa University, M.A. Degree from Colorado State College, M.N.S. degree from University of South Dakota, Additional work at Iowa State University.

Experiences in Education—

General Statement—
"I would welcome the opportunity to meet some of the people in the state. I see the activity being generated among our people as a sign of progress."

Professional Organizations—
Iowa State Education Association, National Education Association, National Science Teachers' Association, Iowa Science Teachers' Association, Iowa Academy of Science, Phi Delta Kappa.

Accomplishments—
Lambda Sigma Tau (Science Honorary - Colorado State)
Publications: Iowa Science Teachers' Journal, Safety Education, Papers at Iowa Academy, North Central News

The officers which you, the membership, elect will serve our organization for the 1964-65 year. A good choice on your part and full support of the officers' work after they are elected will be the key to continued growth in scope and importance of our association. Returning your ballot promptly is the first step in showing the association that you are not just behind it, but with it.

Nominating Committee
Warren Classon
Henry Dickinson
Mrs. Betty Goetttsch
Dr. Clifford McCollum
Frank Starr

The Iowa Science Teacher in 1935

Two suggestions from the editor appeared in the May 1935 issue of The Iowa Science Teacher. They are reprinted here for your reaction.

An additional service of the State Association of Science Teachers which is being given by several states is that of placement. An organization such as ours with an active County Chairman in every county and wide membership is in an excellent position to know of vacancies throughout the state. For a minimum charge to cover the clerical expense incident to notification and recording of qualifications a qualified teacher might obtain bona fide notices of vacancies that would do much towards eliminating the evils of unethical agency practice, and the mistaken attitude on the part of Boards of Education that there is a big surplus of trained teachers. Complete plans have not materialized as yet, but the idea is worthy of some consideration. Send in your reactions to this suggestion.

Do you have a gadget or "thingamajig" that you have constructed to demonstrate some scientific principle? Several teachers have spoken to me of using some homely apparatus with such outstanding success that the thought has occurred to your editor that we might profitably devote some space in this publication to the description of such equipment for the benefit of others. Why not write up a brief but complete description of anything of that sort that you may have and send it in? It is entirely possible that we may be able to finance a few zinc engravings of line drawings of your invention. Such drawings should be made upon high gloss white paper with black ink, and should be drawn in correct proportion. Be sure that your description is given in detail since it may not be possible to use a cut for every one submitted. The maximum length of the accompanying article should not be greater than three hundred words.

The average raindrop is said to contain 6,000,000,000,000,000,000,000,000 atoms.

The sensitivity of a turtle's ear falls off rapidly beyond 1,000 cycles per second, thus making it impossible for it to hear the highest note of a soprano, flute, violin, or piccolo, according to Princeton University scientists.

Then there was the teacher who traded a bird for a sausage. He took a tern for the wurst.