

1990

## Cover - Front Matter - Table of Contents

Follow this and additional works at: <https://scholarworks.uni.edu/istj>



Part of the [Science and Mathematics Education Commons](#)

*Let us know how access to this document benefits you*

Copyright © Copyright 1990 by the Iowa Academy of Science

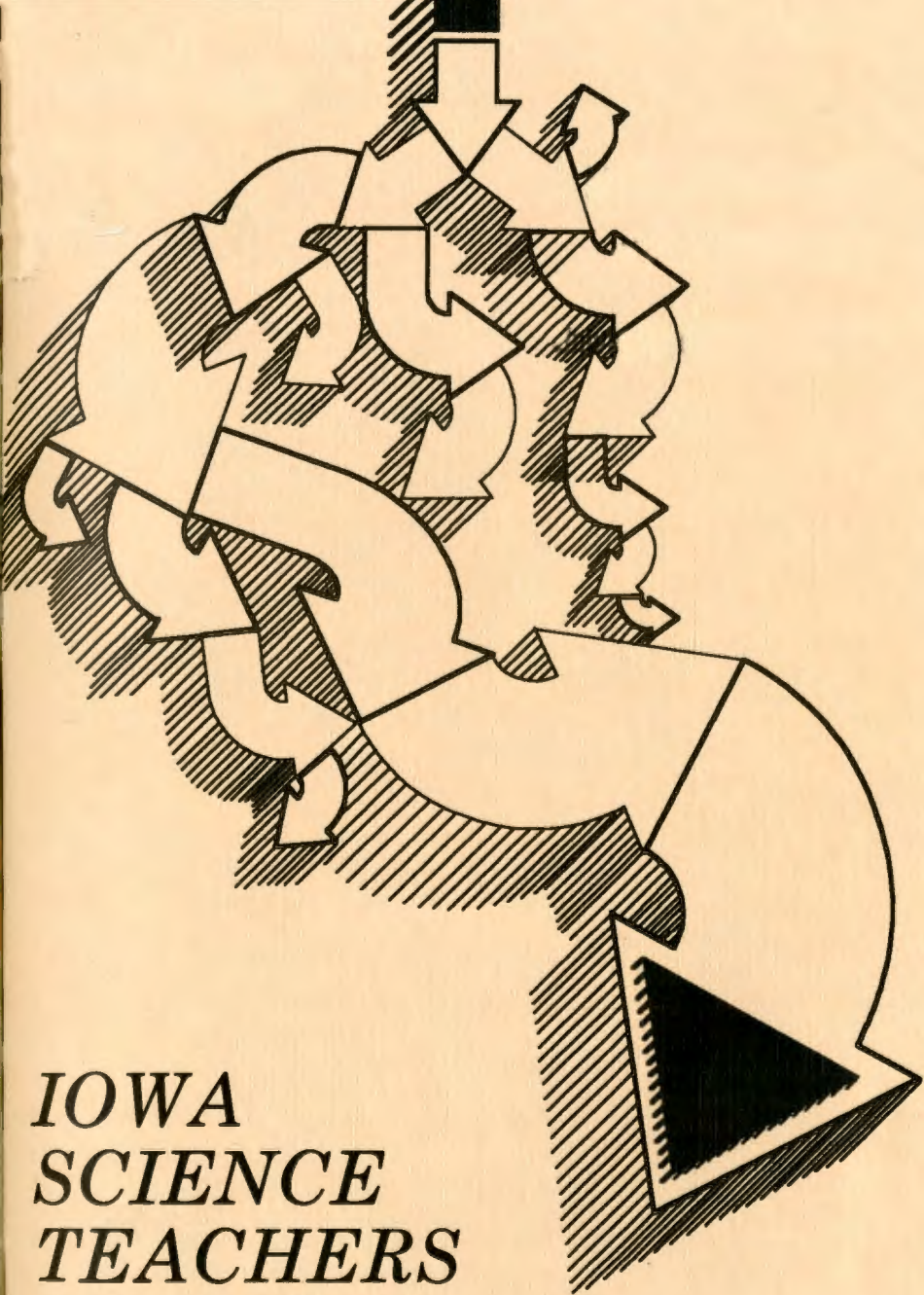
---

### Recommended Citation

(1990) "Cover - Front Matter - Table of Contents," *Iowa Science Teachers Journal*: Vol. 27: No. 3, Article 1. Available at: <https://scholarworks.uni.edu/istj/vol27/iss3/1>

This Front Matter is brought to you for free and open access by the IAS Journals & Newsletters at UNI ScholarWorks. It has been accepted for inclusion in Iowa Science Teachers Journal by an authorized editor of UNI ScholarWorks. For more information, please contact [scholarworks@uni.edu](mailto:scholarworks@uni.edu).

**Offensive Materials Statement:** Materials located in UNI ScholarWorks come from a broad range of sources and time periods. Some of these materials may contain offensive stereotypes, ideas, visuals, or language.



**IOWA  
SCIENCE  
TEACHERS  
JOURNAL**

*Winter 1990-91  
Vol. 27 (3)*

*ISSN No. 0021-0676*

## THE IOWA SCIENCE TEACHERS JOURNAL

*The Iowa Science Teachers Journal* is co-sponsored by the Iowa Academy of Science and the University of Northern Iowa through the Office of the Provost and Price Laboratory School. The journal is dedicated to the improvement of science teaching and to the stimulation of interest in scientific studies. The journal is published tri-annually.

### SUBSCRIPTION

For subscriptions, circulation data, additional copies and change of address, write the Managing Editor, *ISTJ*, Iowa Academy of Science, P. O. Box 868, Cedar Falls, IA 50613. Single copies may be obtained for \$3; a year's subscription is \$9.00.

### PUBLICATION POLICY

Manuscripts for publication will be received from all individuals interested in science education at any academic level. Preferential treatment will be given to Academy members and to papers with topics of special scientific and educational interest to science educators in Iowa.

All non-solicited manuscripts submitted to the editor will be reviewed by two authorities in the area concerned. All manuscripts must be typewritten, double-spaced on one side of a sheet and submitted in triplicate. Refer to recent issues of *ISTJ* for examples of the uniform reference format which is required. Every attempt will be made to publish papers within a year after approval for publication. News items will be published promptly. Publication deadlines are March 31, September 30 and December 31.

For information concerning news items, announcements or articles, contact Carl W. Bollwinkel, Ph.D., Editor, *Iowa Science Teachers Journal*, Department of Teaching, Price Laboratory School, University of Northern Iowa, Cedar Falls, IA 50613.

Copyright 1991 by the Iowa Academy of Science. Permission to reprint in non-profit journals may be obtained by writing the Editor of the *Iowa Science Teachers Journal*. Permission will be granted with the condition that reprinted articles are accompanied by author and *ISTJ* credit. Requests for commercial use should also be addressed to the editor.

### Responsibility

Experiments, laboratory exercises, lecture demonstrations and other descriptions of the use of chemicals, apparatus and instruments are presented in this journal as illustrative and directed at qualified teachers. Although every effort is made to insure and encourage safe practices and safe use of chemicals, *ISTJ* cannot assume responsibility for uses made of its published materials. All teachers planning to use materials from our pages should make choices and develop procedures for laboratory and classroom safety in accordance with local needs and situations.

Contents

- 2 THE NEED FOR CREATIVITY IN THE SCIENCE CLASSROOM  
*Lowell Wiele*
- 8 INTEGRATING CULTURE AND UNDERSTANDING OF SCIENCE  
THROUGH TRADITIONAL FAIRY TALE FORMAT  
*Patrice Wright and Gerry D. Haukoos*
- 14 TECHNOLOGY AVAILABLE TO IOWA TEACHERS THROUGH  
AREA EDUCATION AGENCIES  
*Jack A. Gerlovich and Paul Joslin*
- 19 EASY MICROSCALE ELECTROLYSIS OF WATER  
*Marie C. Sherman*
- 21 NO HARPOONS, UNLESS....  
*Arnold H. Webster*
- 38 INDEX TO VOLUME 27
- 

Departments

- |                       |                     |
|-----------------------|---------------------|
| 22 ASTRONOMY BULLETIN | 32 SCIENCE CALENDAR |
| 28 SCIENCE NOTES      | 35 EDITOR'S CORNER  |
- 

The Cover

The cover drawing symbolizes a decision making process of branching in which the flow of ideas, connections and relationships multiply and divide. Some branches have spurts of growth and then wither away while stronger branches develop to the final decisions. Branching is just one model employed in the creative process; others may be more linear, or they may circle, loop and/or feedback.

The drawing was done by  
**Ed Harris**  
Associate Professor of Teaching-Art at  
Price Laboratory School  
University of Northern Iowa



Printed on Recycled Paper

