

1984

## 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 1984 by the Iowa Academy of Science

---

### Recommended Citation

(1984) "Cover - Front Matter - Table of Contents," *Iowa Science Teachers Journal*: Vol. 21: No. 3, Article 1. Available at: <https://scholarworks.uni.edu/istj/vol21/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 1984-85*  
Vol. 21 (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. 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, Iowa 50613. Single copies may be obtained for \$2.00.; a year's subscription is \$4.50. Any teacher of science in Iowa may obtain a subscription free of charge if a request is mailed to the Managing Editor; all such requests must be made on school stationery.

## PUBLICATION POLICY

Manuscripts for publications 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 duplicate. 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*, Dept. of Teaching, Price Laboratory School, University of Northern Iowa, Cedar Falls, Iowa 50613.

## 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 ensure and encourage safe practices and safe use of chemicals, *ISTJ* cannot assume responsibility for uses made of its published materials. All those 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.

# IOWA SCIENCE TEACHERS JOURNAL

Volume 21

Number 3

Winter 1984-85

## Contents

- 2 WRITING AND ELEMENTARY SCIENCE: A WINNING COMBINATION  
*Bonnie Knutson*
- 8 DEMONSTRATION MODEL OF AN ORGANIC CATALYST  
*Dennis Sievers*
- 22 UP OR DOWN  
*Paul Joslin*
- 27 INDEX TO VOLUME 21

---

### Departments

10 SCIENCE NOTES

23 SCIENCE CALENDAR

26 EDITOR'S CORNER

---

### The Cover

The cover, "Above Iowa: Winter" is a pen and ink drawing with an ink wash. The art work was done by

**Betsy Kelly**

Kelly is an art major at the University of Northern Iowa.