Cover - Front Matter - Table of Contents
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 1990 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 VISUALIZATION
    Ed Harris

5 WHAT'S HAPPENING IN ELEMETARY SCHOOL SCIENCE
    Greg Stefanich

12 CREATIVE COOPERATION THROUGH COMPETITION
    Gail B. Wortmann, Peggy L. Steffen and Theodore L. Buttel

16 WHAT DOES A CAN OF SOFT DRINK WEIGH ON OTHER PLANETS?
    D. Louis Finsand and Thomas Campbell

41 WINTER'S ONE, TWO LOW BLOW
    Marjorie F. Vargas

43 INDEX TO VOLUME 26

48 ISTS REGIONAL DIRECTORS ADDRESS LIST

Departments

21 ASTRONOMY BULLETIN

27 SCIENCE NOTES

35 SCIENCE CALENDAR

42 EDITOR'S CORNER

This symbol identifies articles of particular interest to elementary teachers of science.

The Cover

The cover art work, "Visualization," was created by

Ed Harris
Harris is an Associate Professor of Teaching-Art at
Price Laboratory School
University of Northern Iowa

The cover story, "Visualization," begins on page two.