The Iowa Science Teachers' Journal

The IST Journal is published each October, December, February, and April by the Iowa Academy of Science for its members and special subscribers. Its central theme is science teaching at all academic levels.

Subscription Rates: Single copies $5.00; subscription, $2.00. For subscription, circulation data, additional copies, and changes of address, contact Dr. Robert Hanson, Iowa Academy of Science, University of Northern Iowa, Cedar Falls, Iowa.

Advertising Rates: Full page, single issue $50; $160 per annum. For advertising information contact: Sister Mary Martina, Lennihan High, Marshalltown, or Walter DeKock, Sci., UNI, Cedar Falls.

Publication: Open to all persons interested in science education; preferential consideration for Academy members. For information as to policy as well as submission of new items of general articles, contact: Robert E. Yager, Science Education, U of I, Iowa City. All manuscripts should be typewritten, double-spaced on one side of the paper, and submitted in duplicate. They must reach the editor three months prior to publication date if they are to be considered for a given issue.

STAFF
Managing Editor—Richard Gates, Iowa City

Advertising Committee
William Azbell, Wartburg College, Waverly
Walter DeKock, UNI, Cedar Falls
Milbert Krohn, Spirit Lake High, Spirit Lake
Sister Mary Martina, Lennihan High, Marshalltown
James Merritt, Keokuk High, Keokuk

Editorial Board
Leland Wilson, UNI, Cedar Falls
James Divelbiss, Westmar, Le Mars
Ray Haun, Drake, Des Moines
Donald Biggs, ISU, Ames
Delma Harding, ISU, Ames
George Cossman, U of I, Iowa City

News and Notes Editor—Paul Tweeten, Des Moines

Photographic Editor—Alan Whitworth, Cedar Rapids
IOWA SCIENCE TEACHERS' JOURNAL
A Publication of the Iowa Academy of Science

Volume 7 Number 2 December 1969

IN THIS ISSUE:

Open Letter to Science Teachers .................................................. 2

A Study in Philosophy and Goals of Science Education ..................... 3
  Dale Bunsen

A Comparison of the Attainment of the Common Objectives of the CBA,
CHEMS, and Modern Chemistry Chemistry Courses as Reflected
in Student Performance on Various Objective Measures ................... 15
  Verne A. Troxel

Testing, 1, 2, 3, ................................................................. 18
  R. R. Haun

Concerns of the Articulation Committee ........................................ 24
  R. J. Vanden Branden and Robert Franke

Science for Students Today and Tomorrow ..................................... 28
  Robert E. Yager

Varied NSTA Activities Reported .............................................. 31

NSF Reports on 1967 Industrial Research and Development ............... 32

The cover photo shows an artist's conception of the Apollo astronauts landing on the
moon. The earth is in the background 240,000 miles away.