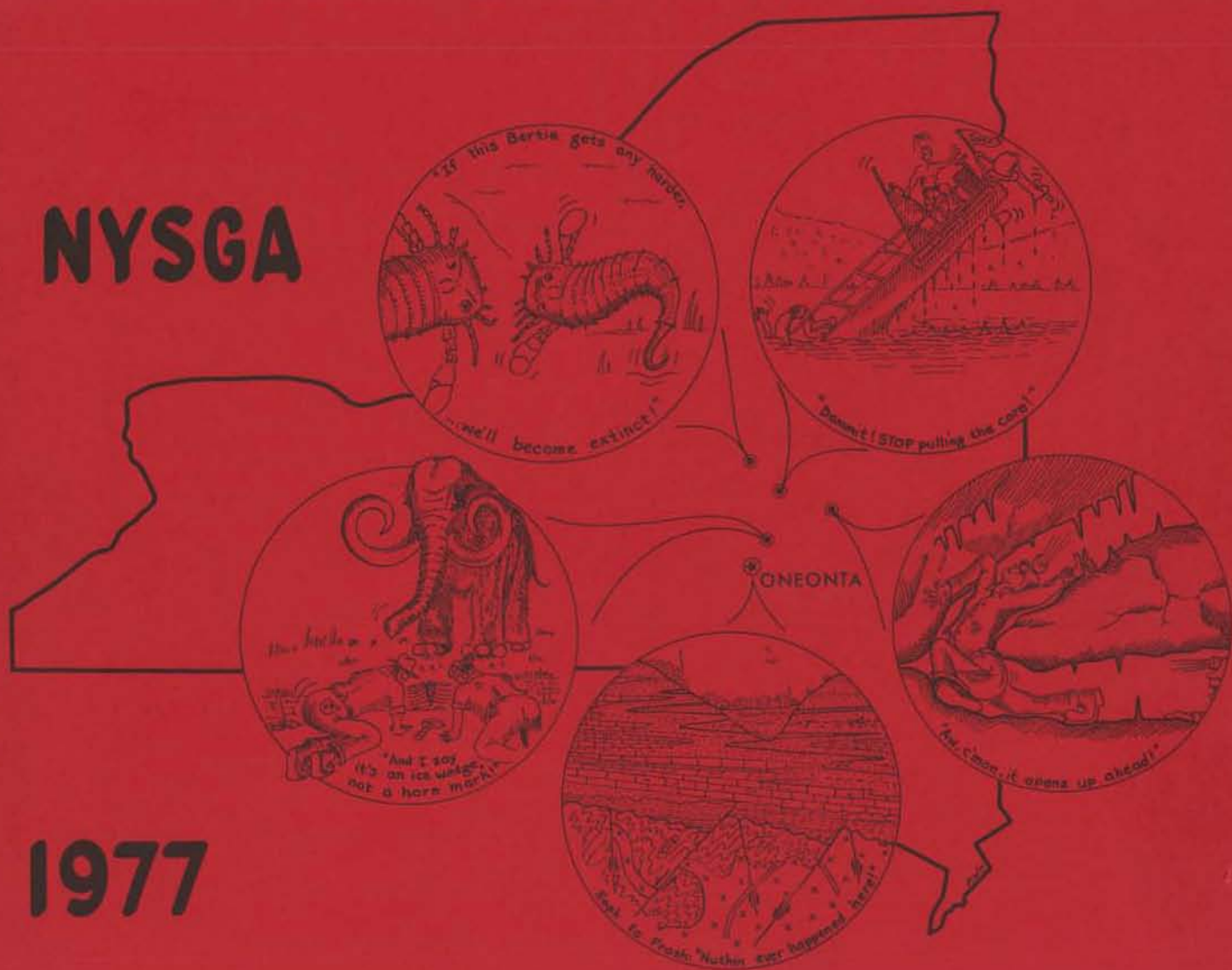


GUIDEBOOK TO FIELD EXCURSIONS

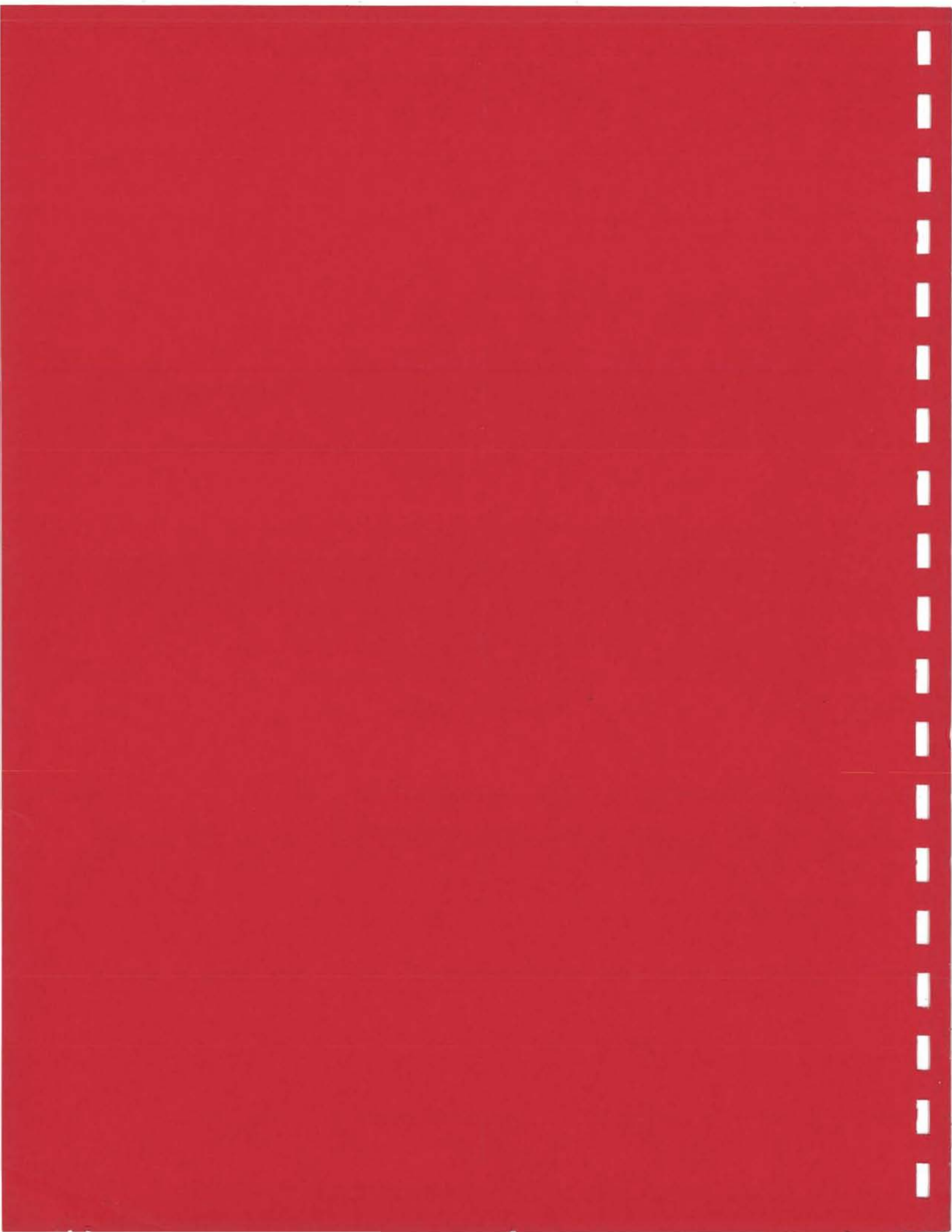
NYSGA



1977

49th Annual Meeting

**STATE UNIVERSITY COLLEGE
AT ONEONTA**



GUIDEBOOK
to
FIELD EXCURSIONS
conducted at the
49th ANNUAL MEETING
of the
NEW YORK STATE GEOLOGICAL ASSOCIATION
(September, 1977)

Philo C. Wilson, Editor

Host:

Earth Science Department
State University College at Oneonta, N. Y.

Additional copies of this guidebook may be purchased from the secretary of the New York State Geological Association: Dr. Daniel F. Merriam, Department of Geology, Syracuse University, Syracuse, N. Y. 13210, or from the editor.

DEDICATION

This Field Guidebook is affectionately dedicated
to
All Students of Geology:
past, present, and future;
from pebble pups to polished professionals;
for
it is their interest, enthusiasm, insights,
and progress that make conferences and guide-
books such as this worthwhile.

ACKNOWLEDGEMENTS

Without the time, effort, dedication, and professionalism of a number of individuals, neither the meeting nor the Guidebook would have been possible.

The responsibility for the planning, organization, and arrangements for both the meeting and the field trips fell on the shoulders of this year's president, Dr. P. Jay Fleisher. To a large extent, any successes enjoyed by either ventures are due to his efforts.

The contributing authors and field trip leaders (in most cases, the same individuals) are owed a huge debt of gratitude by both the current membership of the association and future users of the Guidebook. Without their generous donation of time and expertise, the heart of the meeting and this lasting record of its more important proceedings would be missing.

Behind the scenes, others have made significant contributions. We are indebted to the college for providing its facilities for the smoker and banquet. The editor is especially grateful to Ron Embling in the college's IRC department for extensive expert advice on the illustrations and for careful preparation of the quality metal plates used to print some of them; to Charles Winters for much of the photographic work; and to Joanne Ruteshouser for some of the redrafting required. Our heartfelt thanks go also to Moira Greiner who really put this finished product together by typing the introductory portions; snipping, pasting, composing, and retyping portions of the text; and providing the pagination as the final touch to each manuscript. Finally, we are all grateful to Jim Sheff in the College Print Shop who ran off the Guidebook copies, to the college, again, for allowing us to use their printing facilities - thereby greatly reducing the Guidebook costs, and to the student help who will be returning from summer vacations to assist in the arduous collating and binding processes...even though they don't know it as of this writing.

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