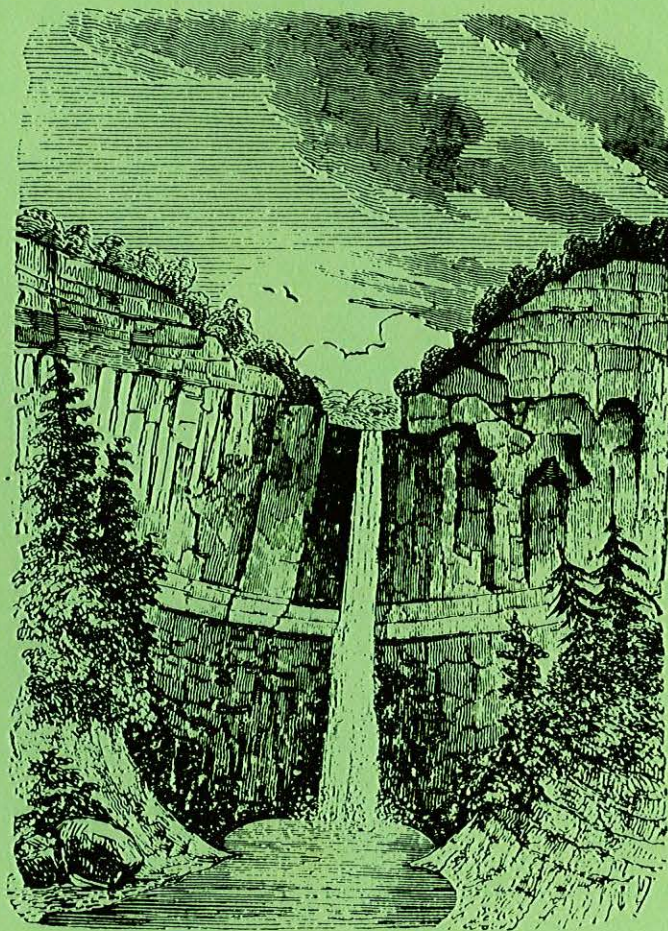


**NEW YORK STATE
GEOLOGICAL ASSOCIATION
GUIDEBOOK FOR FIELD TRIPS IN
SOUTH-CENTRAL NEW YORK**



Taghannuc falls, Tompkins county. From a sketch by Mrs. HALL.



53rd Annual Meeting
State University of New York
at Binghamton
18-20 September 1981

NEW YORK STATE GEOLOGICAL ASSOCIATION

53RD ANNUAL MEETING 18-20 SEPTEMBER 1981

BINGHAMTON, NEW YORK

GUIDEBOOK FOR FIELD TRIPS IN SOUTH-CENTRAL
NEW YORK

PAUL ENOS, EDITOR



STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

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DEDICATION

GLENN G. BARTLE (1899-1977)

When Binghamton last hosted the N.Y.S.G.A. meetings in May of 1963, an unusual feature of our campus was that we had a geologist as president, Glenn Bartle. Since that time, other institutions (such as Cornell) have discovered the value of such a choice.

Our campus probably is one of the few in the world that can claim to have been almost single-handedly built by a geologist, the same Glenn Bartle, deceased in September of 1977. In 1946, Glenn took a job as dean of the two-year extension of Syracuse University in Endicott, New York. When the numbers of WW II veterans subsided and Syracuse decided to close their extension, it was Glenn Bartle who prodded and cajoled local business and professional people to support the retention and expansion of the former Syracuse facility into a four-year college, eventually to become Harpur College, the liberal arts college of the fledgling State University of New York system. Glenn masterminded (and manipulated) this college from temporary barracks onto a site of his choosing and supervised building the physical plant you are now visiting. Even more importantly, he guided the recruitment of the faculty for one of the fine public liberal arts colleges during the early 1960's. He also successfully guided Harpur College towards its emergence as one of the four graduate centers of the State University of New York. This done, Glenn "retired" to his geological profession and worked avidly as petroleum geologist until his death.

Glenn built well, in part because of affection and loyalty he inspired in his colleagues. He was a joy to be with, and we, and "his boys" in the Geology Department at SUNY-Binghamton, have lasting and affectionate memories of him.

It is to his memory that this guidebook is dedicated.

-----JAMES E. SORAUF-----

COVER: Sketch of Taughannock (Taghannoc) Falls, west side of Cayuga Lake, by Mrs. James Hall, to illustrate the Geology of New York, Part IV, by James Hall, 1843, p. 377. This locality will be visited by the field trip on "Middle and Upper Devonian shales and adjacent facies of south-central New York."

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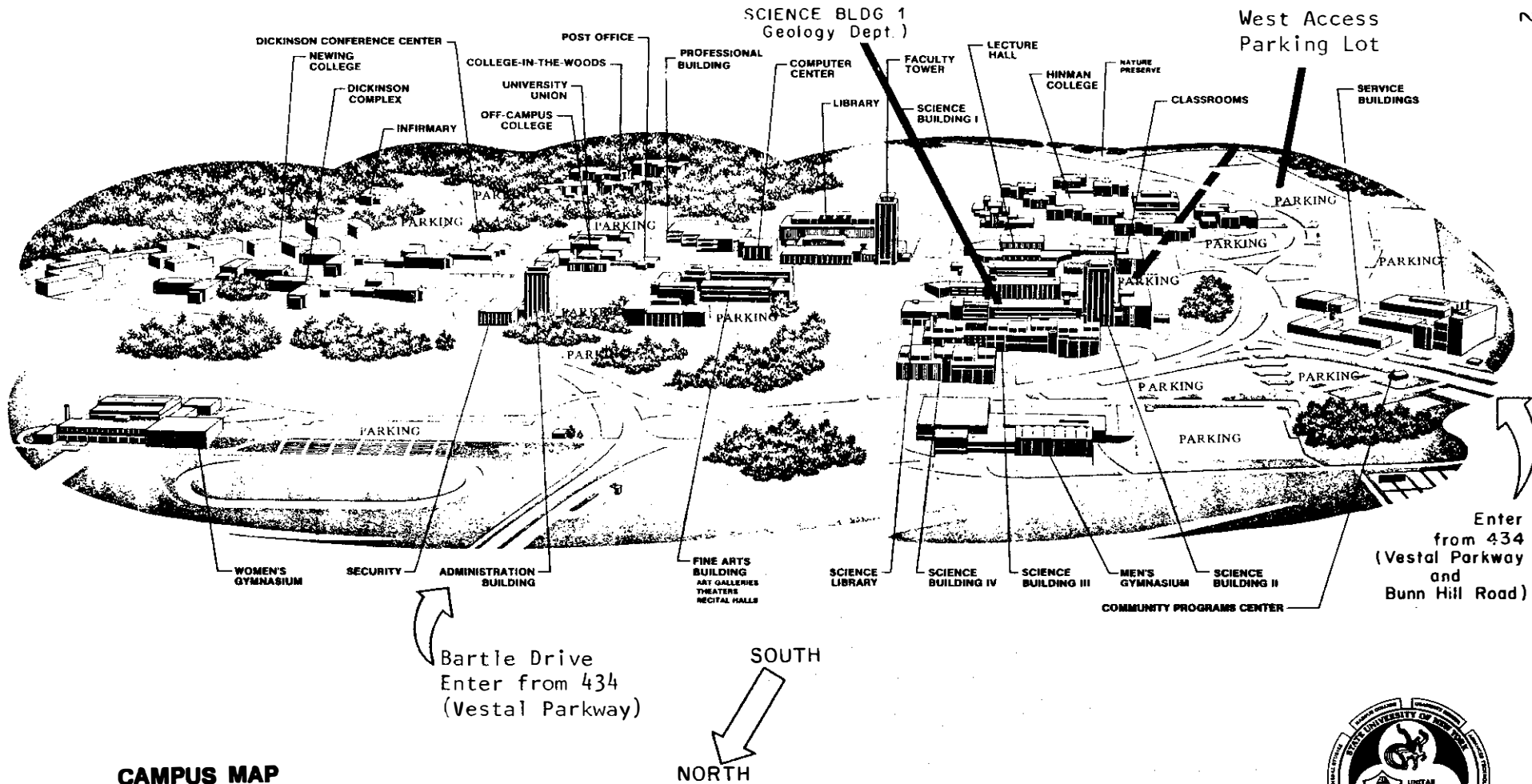
The Devonian Gilboa forest from the Catskill Mountains. From R. H. Dott, Jr. and R. L. Batten, 1981, *Evolution of the Earth*, p. 280. Redrawn by Kevin Enos.

GREETINGS

Donald R. Coates
President, New York State Geological Association

It is with much pleasure that we once again host the New York State Geological Association annual field conference after an 18-year hiatus. During these nearly two decades, much has been learned and published about the south-central New York region. This is in sharp contrast to the literature base that existed prior to 1963. In the preface to the 1963 guidebook, I commented on the scarcity of information, and this was reflected by the low number of field trips, four, for the occasion. Today, however, we are able to offer 11 trips which should whet the appetite of most geologists, with the exception of the unfortunate lack of local "hard rock" or structurally deformed terranes. Some of the increased geologic communications result from the location of the State University of New York at Binghamton campus in the heart of the region. Faculty and students at the University have added to the geologic information base of the surrounding area. Far from being provincial, however, 8 of the 18 field-trip leaders or co-leaders are "invaders" invited to guide you through the wonders of the region. This blend of homegrown and imported talent should provide a healthy mixture for obtaining greater understanding of south-central New York. We are also pleased that two trips visit our close neighbor, Pennsylvania, one under the guidance of a member of the Pennsylvania Geological Survey. Indeed, participants at this field conference are lucky; for the price of one admission they may sample something of two states.

So sit back, enjoy your bus ride and excursions through our region, and read on through this guidebook about the new frontiers that are being revealed and some old favorites that are being revisited.



CAMPUS MAP

STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

