

New York State Geological Association

**93rd Annual Meeting
Field Trip Guidebook**



Edited by David W. Valentino

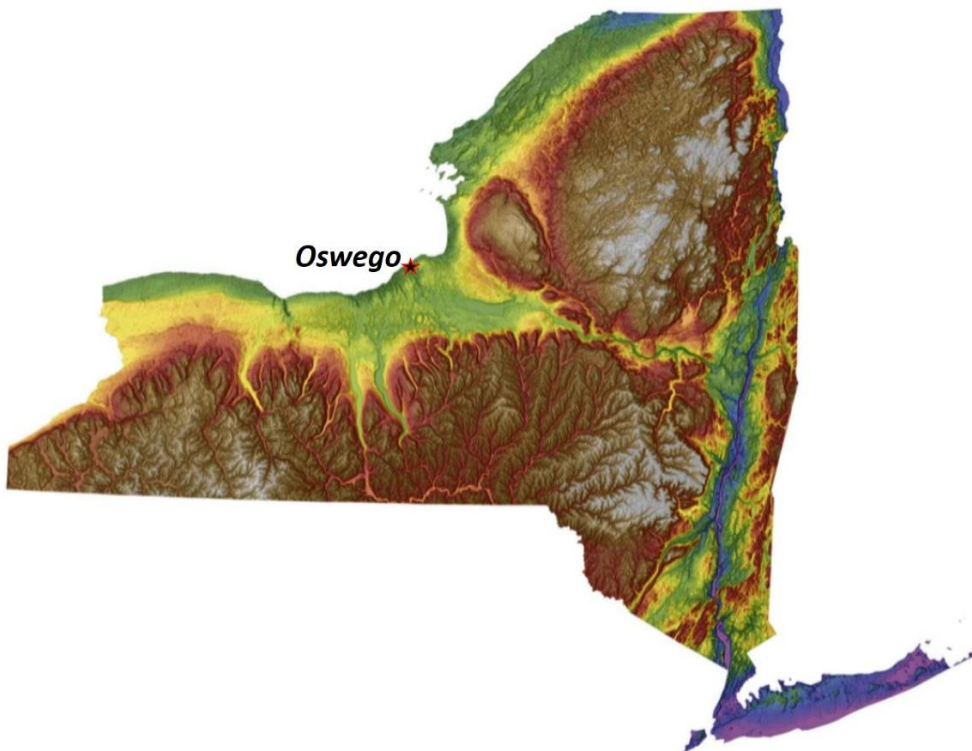
**Hosted by the Geological Sciences Program at the State
University of New York at Oswego
September 23-25, 2022**

Field Trip Guidebook, 93rd Annual Meeting New York State Geological Association

September 23-25, 2022

**Hosted by the State University of New York at Oswego
Oswego, New York**

Edited by David W. Valentino



This guidebook was published by the New York State Geological Association. Additional copies may be obtained from the Executive Secretary of NYSGA, or downloaded at the NYSGA website, www.nysga-online.org.

TABLE OF CONTENTS

FRIDAY, SEPTEMBER 23, 2022

F-1 A PRIMER ON UAV'S FOR GEOLOGICAL RESEARCH: EROSION AT MCINTYRE BLUFF, STERLING, NY, RACHEL J. LEE.....1

SATURDAY, SEPTEMBER 24, 2022

A-1 THE SALT OF THE EARTH AND THE SOUL OF THE SILURIAN SEA: THE UPPER SILURIAN SYRACUSE FORMATION AND ADJACENT FORMATIONS IN CENTRAL NEW YORK, JON FOX.....8

A-2 IGNEOUS AND METAMORPHIC ROCKS OF THE BLACK AND MOOSE RIVER VALLEYS, WESTERN ADIRONDACK HIGHLANDS, NY, ROBERT S. DARLING37

A-3 THE PISECO LAKE SHEAR ZONE: A SHAWINIGAN CRYPTIC SUTURE IN THE SOUTHERN ADIRONDACK MOUNTAINS, NEW YORK, DAVE VALENTINO AND JEFF CHIARELZELLI.....57

A-4 OUTDOOR EARTH SCIENCE: A GEOLOGICAL/ECOLOGICAL NATURE TRAIL FOR STUDENTS OF ALL AGES, NICHOLAS DIFRANCESCO.....81

SUNDAY, SEPTEMBER 25, 2022

B-1 DETRITAL ZIRCON GEOCHRONOLOGY OF THE ADIRONDACK LOWLANDS, JEFF CHIARENZELLI, WILLIAM DELORAINE, MARIAN LUPULESCU AND ERKAN TORAMAN.....91

B-2 EASTERN LAKE ONTARIO DUE-WETLAND COMPLEX FROM THE PLEISTOCENE TO TODAY: LAURENTIDE ICE SHEET DEGLACIATION, SHORELINE EVOLUTION AND MODERN GEOECOLOGY, ROY L. WIDRIG.....125

B-3 MIDDLE ORDOVICIAN CLASTIC, FRACTURES, FAULTS AND WATER FALL: GEOLOGY OF THE SALMON RIVER GORGE, ALTMAR, NEW YORK, DAVE VALENTINO, JOSH VALENTINO AND RICHARD INCLIMA.....139

