New York State Geological Association

82nd Annual Meeting

Field Trip Guidebook

Hosted by College of Staten Island/CUNY Staten Island, NY, 10314 September 24-26, 2010





Edited by Alan I. Benimoff

Published by the New York State Geological Association

www.nysga.net

www.nysgaonline.org

ISBN 1061-8724

Front Cover Image Credit
Geologic map of Staten Island, NY from New York City folio, Paterson, Harlem, Staten Island, and Brooklyn quadrangles, New York-New Jersey <i>Folio 83</i> , published 1902 by the United States Geologic Survey
ii

Table of Contents

TRIP	Title and Author(s)	Pages
1	Delaware Water Gap, A Geology Classroom	1-46
	Jack Epstein	
2	Glacial Geology and Geomorphology of the Passaic, Hackensack, and	47-84
	lower Hudson Valleys, New Jersey and New York	
	Scott D. Stanford	
3	The Timing, Layering, Comagmatic Basalt Flows, Granophyres,	85-100
	Trondhjemites, and Magma Source of the Palisades Intrusive System	
	John H. Puffer, Jeffrey C. Steiner, Karin A. Block, and Alan I. Benimoff	
4	Fossil Great Lakes of the Newark Supergroup – 30 Years Later	101-162
	Paul E. Olsen	
5	Geochemical Characterization of New York City Schist Formations	163-182
	John H. Puffer, Alan I. Benimoff and Jeffrey Steiner	
6	Results (or Consequences) of Remediation at Lemon and Mill Creek Sites	183-190
	Staten Island, New York	
	Peter G. Crowley, William G. Wallace	