

NEW ENGLAND INTERCOLLEGIATE
GEOLOGICAL CONFERENCE
110TH ANNUAL MEETING

NEW YORK STATE GEOLOGICAL ASSOCIATION
90TH ANNUAL MEETING

Guidebook for Fieldtrips in New York and Vermont

A meeting in honor of Bruce Selleck and William Kidd



Edited by
Tim Grover
and
Helen Mango



Hosted by [Castleton University](#) and [Colgate University](#)

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October 12-14, 2018

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Timothy W. Grover and
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Castleton University and Colgate University



NEIGC

New England Intercollegiate Geological Conference

Copies of this guidebook may be purchased for \$35 from the following address:
Geology Program Coordinator
Natural Sciences Department
Castleton University
Castleton, VT 05735

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Landowners only granted permission to visit these sites to the organizers of the original trips for the designated dates of the conference. It is your responsibility to obtain permission for your visit. Be aware that this permission may not be granted.

Especially when using older NEIGC guidebooks, note that the conditions and accessibility at field trip locations may have changed drastically. Likewise, geological interpretations may differ from current understandings.

Please respect any trip stops designated as "no hammers," "no collecting" or the like.

Consider possible hazards and use appropriate caution and safety equipment.

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Welcome

Welcome to the 110th Annual Meeting of the New England Geological Conference, the 90th meeting of the New York State Geological Association, and the beautiful Lake George Region. Trips during this meeting will range from the High Peaks region of the Adirondacks to the summits in the Green Mountains, the Taconics, and the Berkshires in Massachusetts. Trips will also visit the Champlain Valley and the upper reaches of the Hudson Valley. Participants will have the opportunity to examine geologic features ranging from Mesoproterozoic, granulite facies, metamorphic rocks that formed in the middle to lower crust to mud and sand presently on the surface of the Earth. Topics of discussion will range from major and trace element bulk rock geochemistry to REE behavior in monazite to cosmogenic isotopes to chemical contamination from burn piles; from climate in the Early Paleozoic to relatively recent periods of glacial advance and retreat; and from ductile to brittle deformation mechanism. There is something for everyone!

This meeting is dedicated to Bruce Selleck and William Kidd. Bruce Selleck, who unexpectedly passed away just over a year ago, began his work in the region studying the Paleozoic platform sedimentary rocks and later, along with Jim McLelland, published many papers on the Proterozoic rocks of the Adirondacks. Bill Kidd has published many papers on the rocks in the Taconics and the deformed foreland basin rocks. Many of us have learned a great deal from these two distinguished geologists and geologic educators at meetings such as this one or other field excursions. More on Bruce and Bill follows in the dedication in this guidebook.

The hosts of this combined NEIGC and NYSGA also wish to recognize the support of the Malcolm '54 and Sylvia Boyce endowment for Geology at Colgate University. Our current students represent the future of the NEIGC and the NYSGA. The organizers tried to encourage student attendance at this conference by keeping the costs of registration and the banquet low. These reduced costs were made possible by the generous support of the Malcolm '54 and Sylvia Boyce endowment for Geology at Colgate University. Thank you!

Foreword

The NEIGC and NYSGA are amazing organizations that we all believe in and feel are incredibly valuable. Both of these organizations are completely run by many folks generously volunteering their time. We thank the many people that made this NEIGC and NYSGA happen. First thanks to all the field trip leaders who gave generously of their time to put their field guides together and run the trips. Thanks also to Dyk Eusden who set a high bar running the previous NEIGC meeting. We did our best to try to achieve that standard. Dyk was very patient answering our many questions. Thanks also to Brigette Olsen at Castleton University Camps and Conferences office for designing and implementing the online registration process and thanks to Castleton University's Office of Advancement for hosting the conference webpage. Thanks to Tom Wysocki and the staff at the Fort William Henry Hotel for their assistance with the lodging, welcoming reception, and banquet. Thanks to Lindley Hanson of Salem State for updating and maintaining the official NEIGC website and to Joe Kopera for serving as Secretary of the NEIGC. Thanks also to Dave Valentino for his years of dedicated service to the NYSGA and for helping us with many aspects of this meeting. We would also like to thank Brain Carl for his work on the NYSGA website. Finally, thanks to everyone that is attending the meeting. We hope you find that it is both educational and enjoyable.

Helen Mango Tim Grover William Peck Martin Wong

Memorial to Bruce Warren Selleck 1949-2017

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Martin S. Wong, Department of Geology, Colgate University, Hamilton, New York 13346
Email addresses: wpeck@colgate.edu, mswong@colgate.edu

Bruce Selleck, Thomas A. Bartlett Chair and Professor of Geology at Colgate University, died unexpectedly but peacefully in his sleep July 31, 2017. Bruce was born September 30, 1949 in Potsdam, NY. He was the son of Fred W. and Helen Spanik Selleck, and was raised on the family dairy farm in the town of Pierrepont. On the Albert Marsh USGS 7.5-minute sheet the family farm is designated “Sellecks Corners”, and Bruce began his formal education there in a one-room schoolhouse. Bruce graduated from Colton-Pierrepont Central School in 1967 and received a scholarship to attend Colgate University. Bruce was already interested in geology at that point, and had even attended SUNY Potsdam’s field geology course as a high school student. Bruce would often credit his early interest in geology to an excellent ninth grade science teacher, and the particularly good mineral collecting around the farm where he grew up. At Colgate he played varsity soccer and was influenced by Jim McLelland and Bob Linsley, the magnetic poles of the department at that time. Bruce graduated from Colgate with an AB, High Honors in Geology in 1971. That year Bruce also married Nancy Barlow, who he had met when they were both 4-H camp counselors in the Adirondacks. Bruce earned his MA (1972) and PhD (1975) degrees at the University of Rochester, where he was a student of Zeddie Bowen and Bob Sutton and worked on Cambro-Ordovician sedimentology in northern New York for his dissertation.



In 1974 Bruce returned to Colgate as a one-year visiting instructor, but subsequently was asked to interview for a permanent position, and joined the staff as an assistant professor. Bruce would jokingly refer to his three years at Rochester as “the inter-Selleckian period”, the only hiatus in his 50 year affiliation with Colgate. Colgate came to rely on Bruce, calling him to serve in many leadership roles, including chair of the geology department (1983–1986 and 2003–2006), associate dean of the faculty (1988–1990), dean of the faculty and provost (1990–1994), and interim dean of the faculty and provost (2011–2012), as well as chair and director of university committees and institutes, and as advisor to a range of sports teams, clubs, and Greek organizations. Bruce also believed strongly in contributing to the community beyond Colgate, and he served on the Town of Lebanon planning board as well as in leadership roles with the Friends of Rogers Environmental Center and the Adirondack Research Consortium. Bruce was a generous and inspirational mentor to many young faculty in and outside of the Geology department, and was well-known to be a gifted and loved teacher. Many of Bruce’s students over the years cherish their memories of wonderful field trips with Bruce, and also his words of encouragement at critical moments, and thoughtful advice. Bruce received the Colgate Alumni Corporation Distinguished Teaching Award (1998), the AAUP Teacher of the Year Award (2006), and the Sidney J. and Florence Felten French Prize (2010) in recognition of his outstanding teaching.

Bruce was a very broad geologist with wide-ranging interests. His initial research focused on the Paleozoic sedimentology of New York, but as his career progressed he worked on a variety of projects with students and collaborators around the world. Bruce also diversified his approach to geological problems by learning stable isotope geochemistry and fluid inclusion analysis, turning some of his attention to diagenesis and alteration studies. In the 1990s, with longtime colleague and friend Jim McLelland, Bruce later expanded the scope of his research to include tectonic and geochronologic studies of the Adirondack Mountains. Bruce, who would always describe himself as a sedimentologist, was to co-author over twenty articles on the petrology and structural evolution of the Adirondacks with Jim, Jeff Chiarenzelli, Colgate colleagues, students, and others. Bruce’s work on the Carthage-Colton shear zone eventually brought him back to some of the places where he collected rocks and minerals around Sellecks Corners, and he and Eric Johnson took us to some of them during the Friends of the Grenville field conference in 2005. Many geologists will know Bruce from field trips, and he was a active participant in Friends of the Grenville and The New York State Geological Association (NYSGA), leading or co-leading 12 NYSGA trips over the years and organizing the 2008 NYSGA in Lake George. A session on Adirondack and Grenville geology

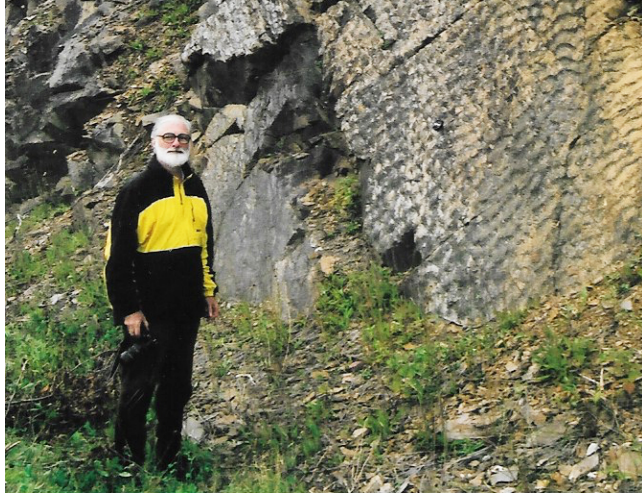
was held in Bruce's honor at the 2018 Northeastern Geological Society of America meeting in Burlington, VT, and the Adirondack Research Consortium has inaugurated an annual forum on Adirondack Contemporary Issues in his name.

Bruce is survived by his wife of 46 years, Nancy Barlow Selleck, their two daughters, Caity Selleck (Jim Murphy) and Beth Selleck Fiore (Chris Fiore), grandchildren Cooper Murphy and Ellie Fiore; Bruce's two sisters, Linda Selleck Kershlis and Laura Selleck (John Jenkins); Nancy's sister, Cindy Lawrence (Kevin Lawrence); and his nephews, Zachary and Adam.

Dedication to William S. F. Kidd

Adam Schoonmaker, Department of Geosciences, Utica College, Utica, New York 13502
James H. MacDonald, Department of Marine and Ecological Sciences, Florida Gulf Coast University, Fort Meyers,
Florida 33965

William S. F. Kidd is an Emeritus Professor of Geology from the University at Albany, SUNY. Bill arrived at Albany in 1974 after completing his Ph.D. in Geology from Cambridge University (via Wales), and a visiting position at the University of Toronto. Bill developed a number of courses at Albany, including teaching Field Mapping for 32 consecutive years! Bill supervised or co-supervised 43 graduate students while at Albany, including numerous students that went on to academic positions at significant colleges and universities. Bill's tenure at Albany coincided with the plate tectonic revolution; the Albany Geology Department at this time was highly influential in that revolution with seminal papers from Bill, John Dewey, Kevin Burke, Akiho Miyashiro, John Bird, Win Means, and the department's graduate students. Bill's work in the Taconic foreland is an important contribution to our understanding of the processes of plate interactions on subducting margins.



Bill's research focused on the tectonics of continental collisions, specifically the Tibetan Plateau, the Himalayas, and the Appalachians of Newfoundland and New England. Bill's has created many meticulous, highly detailed and amazingly accurate maps, many drawn in the pre-GPS era. Bill's diverse research interests also took him to the depths of the Tamayo and Oceanographer transform faults via ALVIN dives along the East Pacific Rise and Mid-Atlantic Ridge. Bill has been awarded over 1.3 million dollars in grant funding to conduct his research. He has published 91 peer reviewed papers, and over 150 referred abstracts presented at conferences.

Bill has shown great dedication to his students over the years. For many, he emphasized the importance of field observations of rocks and structures. In particular, he stressed the significance of stratigraphy as an indicator of tectonic processes. He has also devoted an incredible amount of energy preserving the work of his students by digitizing their reports and maps to keep their work accessible and relevant to the academic community. Bill's great observational humor translated in the classroom as well as outside. Pepsi University or the Pakistan Institute of Nuclear Science and Technology are just two of many examples of this wonderful observational humor. Notably, he will always call out bullshit.

DATES, LOCATIONS, AND ORGANIZERS OF PREVIOUS NEIGC MEETINGS

| | | |
|------------|-------------------------------|--|
| 110 - 2018 | Lake George, NY | Tim Grover and Helen Mango |
| 109 - 2017 | Bethel, ME | Beverly Johnson and Dykstra Eusden |
| 108 - 2016 | Bath, ME | Henry Berry and David West |
| 107 - 2015 | Middletown, CT | Martha Gilmore |
| 106 - 2014 | Wellesley, MA | Margaret Thompson and David Hawkins |
| 105 - 2013 | Millinocket Lake, ME | Lindley Hanson |
| 104 - 2012 | Sunapee, NH | Peter Thompson and Timothy Allen |
| 103 - 2011 | Middlebury, VT | David West |
| 102 - 2010 | Orono, ME | Martin Yates, Chris Gerbi, Alice Kelley, Dan Lux |
| 101 - 2009 | Lyndon, VT | David Westerman and Alison Lathrop |
| 100 - 2008 | Westfield, MA | Mark Van Baalen and Mike Young |
| 99 - 2007 | Quebec City, PQ | Louise Corriveau, Tom Clark and Michel Malo |
| 98 - 2006 | Rangeley, ME | David Gibson, Julia Daly and Douglas Reusch |
| 97 - 2005 | New Haven, CT | Brian Skinner and Tony Philpotts |
| 96 - 2004 | Salem, MA | Lindley Hanson |
| 95 - 2003 | Amherst and Northampton, MA | John Brady and Jack Cheney |
| 94 - 2002 | Lake George, NY | James McLelland and Paul Karabinos |
| 93 - 2001 | Fredericton, NB | Dave Lentz and Ron Pickerill |
| 92 - 2000 | Orono, ME | Martin Yates, Daniel Lux and Joseph Kelley |
| 91 - 1999 | Burlington, VT | Barry Doolan |
| 90 - 1998 | Kingston, RI | Dan Murray |
| 89 - 1997 | Killington-Pico, VT | Timothy Grover and Helen Mango |
| 88 - 1996 | Mount Washington, NH | Mark Van Baalen |
| 87 - 1995 | Brunswick, ME | Arthur Hussey and Robert Johnston |
| 86 - 1994 | Millinocket, ME | Lindley Hanson and Dabney Caldwell |
| 85 - 1993 | Boston, MA | National GSA: Jack Cheney and Chris Hepburn |
| 84 - 1992 | Amherst, MA | Peter Robinson and John Brady |
| 83 - 1991 | Princeton, ME | Allan Ludman |
| 82 - 1990 | La Gaspésie, PQ | Walter Trzcienski |
| 81 - 1989 | Farmington, ME | Archie Berry |
| 80 - 1988 | Keene, NH | Wallace Bothner |
| 79 - 1987 | Montpelier, VT | David Westerman |
| 78 - 1986 | Lewiston, ME | Donald Newberg |
| 77 - 1985 | New Haven, CT | Robert Tracy |
| 76 - 1984 | Danvers, MA | Lindley Hanson |
| 75 - 1983 | Greenville-Millinocket, ME | Dabney Caldwell and Lindley Hanson |
| 74 - 1982 | Storrs, CT | Ray Joesten and Sidney Quarrier |
| 73 - 1981 | Kingston, RI | Jon Boothroyd and Don Hermes |
| 72 - 1980 | Presque Isle, ME | David Roy and Richard Naylor |
| 71 - 1979 | Troy, NY | Gerald Friedman |
| 70 - 1978 | Calais, ME | Allan Ludman |
| 69 - 1977 | Quebec City, PQ | René Béland and Pierre LaSalle |
| 68 - 1976 | Boston, MA | Barry Cameron |
| 67 - 1975 | Great Barrington, MA | Nicholas Ratcliffe |
| 66 - 1974 | Orono, ME | Philip Osberg |
| 65 - 1973 | Fredericton, NB | Hugo Grenier and Nick Rast |
| 64 - 1972 | Burlington, VT | Barry Doolan and Rolfe Stanley |
| 63 - 1971 | Concord, NH | John Lyons and Glenn Stewart |
| 62 - 1970 | Rangeley Lakes-Dead River, ME | Gary Boone |
| 61 - 1969 | Albany, NY | John Bird |
| 60 - 1968 | New Haven, CT | Phil Orville |
| 59 - 1967 | Amherst, MA | Peter Robinson, David Drake and Richard Foose |
| 58 - 1966 | Katahdin, ME | Dabney Caldwell |
| 57 - 1965 | Brunswick, ME | Arthur Hussey |
| 56 - 1964 | Chestnut Hill, MA | James Skehan |
| | | <i>Note: individual trip leaders are listed for earlier meetings</i> |

| | | |
|-----------|---------------------------------|--|
| 55 - 1963 | Providence, RI | Quinn, Mutch, Shafer, Agron, Chapple, Feiniger & Hall |
| 54 - 1962 | Montreal, PQ | Gill, Clark, Kranck, Stevenson, Stearn, Elson, Eakins, & Gold |
| 53 - 1961 | Montpelier, VT | Doll, Cady, White, Chidester, Matthews, Nichols, Baldwin, Stewart, Dennis, Smith, and Ferris |
| 52 - 1960 | Rumford, ME | Griscom, Milton, Wolfe, Caldwell, and Peacor |
| 51 - 1959 | Rutland, VT | Zen, Kay, Welby, Bain, Theokritoff, Osberg, Shumaker, Berry, and Thompson |
| 50 - 1958 | Middletown, CT | Rosenfeld, Eaton, Sanders, Porter |
| 49 - 1957 | Amherst, MA | George Bain |
| 48 - 1956 | Portsmouth, NH | Novotny, Billings, Chapman, Bradley, Freedman and Stewart |
| 47 - 1955 | Ticonderoga, NY | Rodgers, Walton, MacClintock, Bartolome |
| 46 - 1954 | Hanover, NH | Elston, Washburn, Lyons, McKinstry, Stoiber, McNair, and Thompson |
| 45 - 1953 | Hartford, CT | Flint, Gates, Peoples, Cushman, Aitken, Rodgers and Troxell |
| 44 - 1952 | Williamstown, MA | Perry, Foote, McFaden, and Ramsdell |
| 43 - 1951 | Worcester, MA | Lougee and Little |
| 42 - 1950 | Bangor, ME | Trefethen and Raisz |
| 41 - 1949 | Boston, MA | Nichols, Billings, Shrock, Currier, and Stearns |
| 40 - 1948 | Burlington, VT | Charlie Doll |
| 39 - 1947 | Providence, RI | Alonzo Quinn |
| 38 - 1946 | Mt. Washington, NH | Marland P. Billings, Kathrine F. Billings and R.W. Chapman |
| 37 - 1941 | Northampton, MA | Balk, Jahns, Lochman, Shaub, and Willard |
| 36 - 1940 | Hanover, NH | J. W. Goldthwait, Denny, Shaub, Hadley, Bannerman, and Stoiber |
| 35 - 1939 | Hartford, CT | Troxell, Flint, Longwell, Peoples and Wheeler |
| 34 - 1938 | Rutland, VT | George W. Bain |
| 33 - 1937 | NYC-Dutchess Co., NY | O'Connell, Kay, Fluhr, Hubert and Balk |
| 32 - 1936 | Littleton, NH | Marland P. Billings, Hadley, Cleaves and Williams |
| 31 - 1935 | Boston, MA | Morris, Pearsall, and Whitehead |
| 30 - 1934 | Lewiston, ME | Lloyd Fisher and Edward Perkins |
| 29 - 1933 | Williamstown, MA | Herdman Cleland, Perry, and Knopf |
| 28 - 1932 | Providence-Newport, RI | C. W. Brown |
| 27 - 1931 | Montreal, PQ | O'Neill, Graham, T. M. Clark, Gill, Osborne, and McGerrigle |
| 26 - 1930 | Amherst, MA | F. B. Loomis and Gordon |
| 25 - 1929 | Littleton, NH | Irving B. Crosby |
| 24 - 1928 | Cambridge, MA | Marland P. Billings, Kirk Bryan, and Kirtley Mather |
| 23 - 1927 | Worcester, MA | Perry, Little, and Gordon |
| 22 - 1926 | New Haven, CT | C. R. Longwell |
| 21 - 1925 | Waterville, ME | Edward H. Perkins |
| 20 - 1924 | Providence, RI | C. W. Brown |
| 19 - 1923 | Beverly, MA | A. C. Lane |
| 18 - 1922 | Amherst, MA | Ernst Antevs |
| 17 - 1921 | Attleboro, MA | J. B. Woodworth |
| 16 - 1920 | Hanging Hills, Meriden, CT | W. N. Rice and Wilbur Foye |
| 15 - 1917 | Gay Head, Martha's Vineyard, MA | J. B. Woodworth and E. Wigglesworth |
| 14 - 1916 | Blue Hills, MA | W. O. Crosby and C. H. Warren |
| 13 - 1915 | Waterbury-Winsted, CT | Jos. Barrell |
| 12 - 1912 | Higby-Lamentation Blocks, CT | W. N. Rice |
| 11 - 1911 | Nahant-Medford, MA | A. C. Lane and D. W. Johnson |
| 10 - 1910 | Hanover, NH | James W. Goldthwait |
| 9 - 1909 | Northern Berkshires, MA | H. F. Cleland |
| 8 - 1908 | Long Island, NY | Jos. Barrel |
| 7 - 1907 | Providence, RI | C. W. Brown |
| 6 - 1906 | Meriden-East Berlin, CT | H. E. Gregory |
| 5 - 1905 | Boston-Nantasket, MA | D. W. Johnson and W. O. Crosby |
| 4 - 1904 | Worcester, MA | Benjamin Emerson |
| 3 - 1903 | West Peak, Meriden, CT | W. N. Rice |
| 2 - 1902 | Mount Tom, MA | Benjamin Emerson |
| 1 - 1901 | Westfield River Terraces, MA | William Morris Davis |