

CURRICULUM VITAE
JOHN CHRISTOPHER HEPBURN

February 2018

ADDRESS:

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EDUCATION:

<u>Date</u>	<u>School</u>	<u>Degree</u>	<u>Curriculum Summary</u>
9/66-9/71	Harvard University Cambridge, Massachusetts	Ph.D. June, 1972	Geology. Emphasis on metamorphic petrology, structural geology, and stratigraphy.
9/64-9/66	Harvard University Cambridge, Massachusetts	A.M. June, 1966	Geology
9/60-6/64	Colgate University Hamilton, New York	A.B. June, 1964	Geology Major

Ph.D. DISSERTATION:

"Geology of the Metamorphosed Paleozoic Rocks in the Brattleboro Area, Vermont." The thesis was a petrological, structural and stratigraphical study of an area in the Appalachian Orogen of southeastern Vermont that includes a large refolded recumbent fold in a region of varying metamorphic grades. Thesis advisors: Professors James B. Thompson, Jr., and Marland P. Billings.

EXPERIENCE:

<u>Dates</u>	<u>Employer</u>	<u>Type of Work</u>
7/2013-present	Boston College	Professor of Geology Emeritus
9/89-6/2013	Boston College	Professor of Geology, Dept. of Geology & Geophysics, changed in 2012 to Dept. Earth and Environmental Sciences
1/80-6/89 and 6/95- 6/01	Boston College	Chairman, Department of Geology & Geophysics
8/03-11/03	Memorial Univ. of Newfoundland	Visiting Scientist during sabbatical leave

11/87-7/88	Univ. de Oviedo, Spain	Visiting Professor in the Faculty of Geology during sabbatical year
1/79-1/80	M.I.T. Earth and Planetary Sciences	Visiting Scientist, during sabbatical leave, working on trace elements in meta-basalts
9/77-9/89	Boston College	Associate Professor of Geology
9/72-9/77	Boston College	Assistant Professor of Geology
9/71-9/72	Boston College	Instructor of Geology
Summers 1974-1978	United States Geological Survey	Geologist (WAE): Field Geological Studies and Bedrock Mapping in East-Central Massachusetts for the new State Geological Map
9/70-9/71	Harvard University	Research Assistant on NASA Apollo Lunar Sample Studies Project

AREAS OF SPECIALIZATION:

Geology, with emphasis in Metamorphic and Igneous Petrology and Geochemistry, Structural Geology, and Tectonics.

TEACHING:

Selection of Courses Taught:

- Ge 132** Exploring the Earth I (Introductory course for Majors and Science Core Students)
- Ge 134** Exploring the Earth II (Introductory course for Majors and Science Core Students)
- Ge 177** Cosmos-Extraterrestrial Geology (A science core course)
- Ge 220** Earth Materials (A required course for Geology, Geophysics and Environmental Geoscience Majors)
- Ge 372** Igneous Petrology (A course for undergraduate majors).
- Ge 376** Metamorphic Petrology (A course for undergraduate majors)
- Ge 292** Undergraduate Reading and Research
- Ge 340** Seminar in Regional Geology (In addition to classes, includes a two to three week intensive geological excursion to the area studied.)
- Ge 399/Ge 400/Ge 599** Undergraduate Honors-Scholar of the College- Thesis Direction.
- Ge 543** Plate Tectonics & Mountain Belts, (an upper division-graduate course).
- Ge 570** Petrology I-Igneous Petrology (A course for upper level undergraduate majors and grad students).
- Ge 572** Petrology II-Metamorphic Petrology (A course for upper level undergraduate majors and grad students).
- Ge 597** Reading and Research for undergraduate students
- Ge 692/Ge693/Ge 694** Earth Systems Seminars (Advanced graduate seminars analyzing the tectonics of mountain belts.)

Student Advising:

Graduate:

Principal Advisor for 32 M.S. students.

Committee member for and reader of about 35 other M.S. student theses in addition to those for whom I acted as principal advisor.

Undergraduate Students

Served as advisor to about 170 majors and undergraduates in past decade

Served as advisor for 15 undergraduate senior theses in past decade.

Served as advisor for honors students in the Department, 1990-95.

Served as foreign student advisor for students in the Dept. of Earth and Environmental Sciences planning on doing part of their program abroad.

SCHOLARLY ACTIVITIES:

Professional Society Memberships:

1. Geological Society of America (GSA) (Elected Fellow)
2. The Geological Society (London) (Elected Fellow)
3. American Association for the Advancement of Science (Elected Fellow)
4. American Geophysical Union
5. Vermont Geological Society
6. Association of Engineering & Environmental Geologists, AEG, Northeastern Section

PUBLICATIONS: SCIENTIFIC ARTICLES:

Articles in Journals and Books and Published Geological Maps:

Kuiper, Y.D., Thompson, M.D., Barr, S.M., White, C.E., Hepburn, J.C. and Crowley, J.L., DETRITAL ZIRCON EVIDENCE FOR PALEOPROTEROZOIC WEST AFRICAN CRUST ALONG THE EASTERN NORTH AMERICAN CONTINENTAL MARGIN, GEORGES BANK, OFFSHORE MASSACHUSETTS, USA: *Geology*, v.45, no.9, 2017, p. 811-814, doi: 10.1130/G39203.1

Kay, A., Hepburn, J.C., Kuiper, Y.D., and Baxter, E.F., GEOCHEMICAL EVIDENCE FOR A GANDERIAN ARC/BACK-ARC REMNANT IN THE NASHOBA TERRANE, SE NEW ENGLAND, USA: *American Journal of Science*, v. 317, 2017, p. 413-448, doi: 10.2475/04.2017.01

Valverde-Vaquero, P., Hepburn, J.C., and Martínez García, E., GEOCHEMISTRY OF THE UPPER ORDOVICIAN ALKALINE BASALTS OF THE CASTRO FM. (CANTABRIAN ZONE): BREAK-UP ALONG THE IBERO-ARMORICAN MARGIN OF THE RHEIC OCEAN?: IX Congreso Geológico de España, *Geo-Temas*, v.16 (2), 2016, ISSN 1576-5172, pp. 207- 210.

Hepburn, J.C., Kuiper, Y.D., Buchanan, J.W., Kay, A., and Dabrowski, D.R., EVOLUTION OF THE NASHOBA TERRANE, AN EARLY PALEOZOIC GANDERIAN ARC REMNANT IN EASTERN MASSACHUSETTS: *in* Thompson, M.D., ed., Guidebook to Field Trips in Southeastern New England (MA-NH-RI), New England Intercollegiate Geological Conference, 106th Ann. Mtg., Wellesley, Massachusetts, 2014, pp. B3-1 – B3-19.

Kuiper, Y.D., Buchanan, J.W., Charnock, R., Hepburn, J.C., and Kopera, J.P., STRUCTURAL HISTORY OF THE NASHOBA TERRANE – METTIMACK TERRANE BOUNDARY ZONE, EASTERN MASSACHUSETTS: *in* Thompson, M.D., ed., Guidebook to Field Trips in Southeastern New

- England (MA-NH-RI), New England Intercollegiate Geological Conference, 106th Ann. Mtg., Wellesley, Massachusetts, 2014, pp. C4-1 – C4-12.
- Bothner, W., Kane, P., Stoesz, E., Sorota, K., Laird, J., Hussey, A., Dorias, M., Wintsch, B., Hepburn, C., and Kunk, M., AGES OF THE RYE COMPLEX, COASTAL NH: A DEFORMATIONAL HISTORY SLOWLY REVEALED: *in* Thompson, M.D., ed., Guidebook to Field Trips in Southeastern New England (MA-NH-RI), New England Intercollegiate Geological Conference, 106th Ann. Mtg., Wellesley, Massachusetts, 2014, pp. A2-1 – A2-20.
- Piñán Llamas, Aránzazu, and Hepburn, J. Christopher, GEOCHEMISTRY OF SILURIAN-DEVONIAN VOLCANIC ROCKS IN THE COASTAL VOLCANIC BELT, MACHIAS-EASTPORT AREA, MAINE: EVIDENCE FOR A PRE-ACADIAN ARC: *Bulletin Geological Society of America*; v.125, no. 11-12, 2013, pp.1930-1942: doi: 10.1130/B30776.1
- Stroud, Misty, M., Markwort, Ross, J. and Hepburn, J. Christopher, REFINING TEMPORAL CONSTRAINTS ON METAMORPHISM IN THE NASHOBA TERRANE, SOUTHEASTERN NEW ENGLAND, THROUGH MONAZITE DATING: *Lithosphere*, Geological Society of America, 2009, v. 1, no. 6, pp. 337-342.
- Hon, R., Hepburn, J. Christopher and Laird, Jo, SILURO-DEVONIAN IGNEOUS ROCKS OF THE EASTERNMOST THREE TERRANES IN SOUTHEASTERN NEW ENGLAND: EXAMPLES FROM NE MASSACHUSETTS AND SE NEW HAMPSHIRE: *in* Thompson, Peter, J., ed., Guidebook to Field Trips in New Hampshire, Adjacent Maine and Massachusetts, Geological Society of America, Northeastern Section, Univ. of New Hampshire, 2007, pp. 23-43.
- Castle, R.O., Hepburn, J.C., and Kopera, J., BEDROCK GEOLOGIC MAP OF THE LAWRENCE QUADRANGLE: Preliminary Geologic Map, Massachusetts Geologic Survey (4⁺). Map and accompanying text, 1/24,000, 2007.
- Castle, R.O., Hepburn, J.C., and Kopera, J., BEDROCK GEOLOGIC MAP OF THE READING QUADRANGLE: Preliminary Geologic Map, Massachusetts Geologic Survey (4⁺). Map and accompanying text, 1/24,000, 2007.
- Castle, R.O., Hepburn, J.C., and Kopera, J., BEDROCK GEOLOGIC MAP OF THE SOUTH GROVELAND QUADRANGLE: Preliminary Geologic Map, Massachusetts Geologic Survey (4⁺). Map and accompanying text, 1/24,000, 2007.
- Castle, R.O., Hepburn, J.C., and Kopera, J., BEDROCK GEOLOGIC MAP OF THE WILMINGTON QUADRANGLE: Preliminary Geologic Map, Massachusetts Geologic Survey (4⁺). Map and accompanying text, 1/24,000, 2007.
- Kopera, J.P., DiNitto, R.G. and Hepburn, J.C., BEDROCK GEOLOGIC MAP OF THE MARLBOROUGH QUADRANGLE, MASSACHUSETTS: Massachusetts Geologic Survey (4⁺), Map GM-06-01, 2006 (revised in online version 2008).
- Hepburn, J. Christopher, THE PERI-GONDWANA NASHOBA TERRANE OF EASTERN MASSACHUSETTS: AN EARLY PALEOZOIC ARC-RELATED COMPLEX AND ITS ACCRETIONARY HISTORY: *in* Hanson, L.S., ed., Guidebook to Field Trips from Boston, MA to Saco Bay, ME, 96th New England Intercollegiate Geological Conference, Salem, MA, 2004, pp. 17-38.
- Kohut, E.J. and Hepburn, J.C., MYLONITES AND BRITTLE SHEAR ZONES ALONG THE WESTERN EDGE OF THE AVALON TERRANE WEST OF BOSTON: *in* Hanson, L.S., ed., Guidebook to Field Trips from Boston, MA to Saco Bay, ME, 96th New England Intercollegiate Geological Conference, Salem, MA, 2004, pp. 89-110.
- Karabinos, P., Stoll, H.M. and Hepburn, J. Christopher, THE SHELBURNE FALLS ARC – LOST ARC OF THE TACONIC OROGENY: *in* Brady, J.B. and Cheney, J.T., eds., Guidebook for Field Trips in the Five College Region, 95th Annual Meeting of the New England Intercollegiate Geological Conference, Amherst, MA, 2003, pp. B3-1 – B3-17.
- Karabinos, P. and Hepburn, J.C., GEOCHRONOLOGY AND GEOCHEMISTRY OF THE SHELBURNE FALLS ARC: THE TACONIC OROGENY IN WESTERN NEW ENGLAND: *in* West, D.P., Jr., and Bailey, R.H., eds., Guidebook for Geological Field Trips in New England, Geological Society of America, 2001, pp. H-1 - H-20.
- Goldstein, A. and Hepburn, J.C., POSSIBLE CORRELATIONS OF THE NORUMBEGA FAULT SYSTEM WITH FAULTS IN SOUTHEASTERN NEW ENGLAND: *in* Ludman, A., and West, D. P., Jr., eds., Norumbega Fault System in the Northern Appalachians: Geological Society of America, Special Paper #331, 1999, pp. 73-83.

- Karabinos, Paul, Samson, Scott, D., Hepburn, J. Christopher and Stoll, Heather, M, TACONIAN OROGENY IN THE NEW ENGLAND APPALACHIANS: COLLISION BETWEEN LAURENTIA AND THE SHELBURNE FALLS ARC: Discussion and Reply, Geological Society of America, *Geology*, V27, #4, 1999, pp. 381-382.
- Hepburn, J. Christopher and Bailey, Richard, H., THE AVALON AND NASHOBA TERRANES OF EASTERN MASSACHUSETTS: *in* Murray, Daniel, P., ed., Guidebook to Field Trips in Rhode Island and Adjacent Regions of Connecticut and Massachusetts, 90th New England Intercollegiate Geological Conference, Univ. of Rhode Island, Kingston, RI, 1998, pp. C3-1 - C3-24.
- Skehan, James, W., Rast, Nicolas, Kohut, Edward, Hepburn, J. Christopher and Grimes, Stephen, PRECAMBRIAN AND PALEOZOIC MYLONITES OF THE BOSTON AVALON: *in* Murray, Daniel P., ed., Guidebook to Field Trips in Rhode Island and Adjacent Regions of Connecticut and Massachusetts, 90th New England Intercollegiate Geological Conference, Univ. of Rhode Island, Kingston, RI, 1998, pp. A3-1 - A3-24.
- Karabinos, P., Samson, S.D., Hepburn, J.C. and Stoll, H.M., TACONIAN OROGENY IN THE NEW ENGLAND APPALACHIANS: COLLISION BETWEEN LAURENTIA AND THE SHELBURNE FALLS ARC: Geological Society of America, *Geology*, v.26, 1998, pp. 215-218.
- Thompson, J.B., Jr., Rosenfeld, J.L., Hepburn, J.C., and Trzcienski, W.E., HOW DOES NEW HAMPSHIRE CONNECT TO VERMONT?: *in* Grove, T.W., Mango, H.N., and Hasenohr, E.J., eds., Guidebook for Field Trips in Vermont and Adjacent New Hampshire and New York, New England Intercollegiate Geological Conference, 89th Annual Meeting, 1997, p. C1-1 - C1-17.
- Hepburn, J.C., Dunning, G.R. and Hon, R., GEOCHRONOLOGY AND REGIONAL TECTONIC IMPLICATIONS OF SILURIAN DEFORMATION IN THE NASHOBA TERRANE, SOUTHEASTERN NEW ENGLAND: *in* Hibbard, J.P., van Staal, C.R. and Cawood, P.A., eds., Current Perspectives in the Appalachian-Caledonian Orogen: Geological Association of Canada, Special Paper 41, 1995, p. 349-366.
- Hepburn, J.C., Hon, R., Dunning, G. R., Bailey, R. H., and Galli, K., THE AVALON AND NASHOBA TERRANE (EASTERN MARGIN OF THE APPALACHIAN OROGEN IN SOUTHEASTERN NEW ENGLAND): *in* Cheney, J.T. and Hepburn, J.C. (editors), Field Trip Guidebook for the Northeastern United States: 1993 Boston GSA, Geological Society of America, 1993, Vol. 2, pp. X1-X31.
- Robinson, P., Ratcliffe, N.M., and Hepburn, J.C., A TECTONIC-STRATIGRAPHIC TRANSECT ACROSS THE NEW ENGLAND CALEDONIDES OF MASSACHUSETTS: *in* Cheney, J.T. and Hepburn, J.C. (editors), Field Trip Guidebook for the Northeastern United States: 1993 Boston GSA, Geological Society of America, 1993, Vol. 1, pp. C1-47.
- Trzcienski, W.E., Jr., Thompson, J.B., Jr., Rosenfeld, J.L., and Hepburn, J.C., THE CHICKEN YARD LINE / WHATELY FAULT DEBATE: FROM SPRINGFIELD, VERMONT TO WHATELY, MASSACHUSETTS: *in* Robinson, P. and Brady, J. B. (editors), Guidebook for Field Trips in the Connecticut Valley Region of Massachusetts and Adjacent States, 84th New England Intercollegiate Geologic Conference, Univ. of Mass., Amherst, 1992, vol. 2, pp. 291-30.
- Hepburn, J.C., Hon, R. and Hill, M., TECTONOMAGMATIC PROVINCES WITHIN THE EASTERN MARGINAL ZONE OF THE APPALACHIAN-CALEDONIDE OROGEN, SOUTHEASTERN NEW ENGLAND: *in* Destombes, J. (editor), L'Orogène Calédonien. Le Maroc et l'orogène paléozoïque, Symposium de Rabat, Notes et Memoires du Service Geologique du Maroc #335, 1991, pp. 145-160.
- Durfee Cardoza, K., Hepburn, J. C. and Hon, R., GEOCHEMICAL CONSTRAINTS ON THE PALEOTECTONIC SETTINGS OF TWO LATE PROTEROZOIC MAFIC VOLCANIC SUITES, BOSTON-AVALON ZONE, EASTERN MASSACHUSETTS: *in* Socci, A., Skehan, J.W., S.J. and Smith, G.W., (editors), Geology of the Composite Avalon Terrane of Southern New England, Geological Soc. of America, Special Paper #245, 1990, pp.113-131.
- Zen, E-an (leader), Hepburn, J.C., Kidd, W.S.F., Robinson, P., Skehan, J.W., S.J., and Thompson, J.B., Jr., (co-leaders), TECTONOSTRATIGRAPHIC TERRANES IN THE NORTHERN APPALACHIANS: THEIR DISTRIBUTION, ORIGIN, AND AGE; EVIDENCE FOR THEIR EXISTENCE: Field Trip Guidebook for Excursion T359, 28th International Geologic Congress, American Geophysical Union, Washington, D.C., 1989, 68 p.

- Rodgers, J., Grasso, T. and Jordan, W.M.,(leaders), Hepburn, J.C., Belt, E.S., Johnson, M.E., and Friedman, G.M., (associate leaders), BOSTON TO BUFFALO, IN THE FOOTSTEPS OF AMOS EATON AND EDWARD HITCHCOCK: Field Trip Guidebook for Excursion T169, 28th International Geologic Congress, American Geophysical Union, Washington, D.C., 1989, 99p.
- Hepburn, J.C., THE CONNECTICUT VALLEY-GASPÉ SYNCLINORIUM IN SOUTHEASTERNMOST VERMONT: *in* Bothner, W.A. (editor) Guidebook for field trips in southwestern New Hampshire, southeastern Vermont and north-central Massachusetts, 80th New England Intercollegiate Geologic Conference, Keene, New Hampshire, 1988, p.256-267.
- Hepburn, J.C., Hill, M. and Hon, R., THE AVALONIAN AND NASHOBA TERRANES, EASTERN MASSACHUSETTS, U.S.A: AN OVERVIEW: *in* Barr, S. (editor), Special Volume on "The Avalon Terrane of the Northern Appalachian Orogen", Atlantic Geoscience Society, Maritime Sediments and Atlantic Geology, v.23, 1987, p. 1-12.
- Hepburn, J.C., Hon, R. and Hill, M.D., IGNEOUS ROCKS OF EASTERN MASSACHUSETTS: PETROGENEOUS AND TECTONIC SIGNIFICANCE: Final Report on NSF Collaborative Research, NSF Grant EAR8212760, NSF Washington, D.C., 1987, 2 Volumes.
- Hon, R., Hepburn, J.C., Bothner, W.A., Olszewski, W.J., Gaudette, H.E., Dennen, W.H. and Loftenius, C., MID-PALEOZOIC CALC-ALKALINE IGNEOUS ROCKS OF THE NASHOBA BLOCK AND MERRIMACK TROUGH: *in* Newburg, D.W. (editor), Guidebook for Field Trips in Southwestern Maine, 78th New England Intercollegiate Geologic Conference, Lewiston, Maine, 1986, pp. 37-52.
- Hepburn, J.C., GEOLOGY OF THE GUILFORD DOME AREA, BRATTLEBORO QUADRANGLE SOUTHEASTERN VERMONT: Vermont Geological Society, Volume 4, 1985, p.131-139.
- Hepburn, J.C. and Munn, B., A GEOLOGIC TRAVERSE ACROSS THE NASHOBA BLOCK, EASTERN MASSACHUSETTS: *in* Hanson, L. (editor), Geology of the Coastal Lowlands Boston, Massachusetts to Kennebunk, Maine: New England Intercollegiate Geological Conf., 76th Ann. Mtg., Salem, Massachusetts, 1984, pp. 103-123.
- Hill, M., Hepburn, J.C., Collins, R.D. and Hon, R., IGNEOUS ROCKS OF THE NASHOBA BLOCK, EASTERN MASSACHUSETTS: *in* Hanson, L. (editor), Geology of the Coastal Lowlands Boston, Massachusetts to Kennebunk, Maine, New England Intercollegiate Geological Conference, 76th Annual Meeting, Salem, Massachusetts, 1984, pp. 61-80.
- DiNitto, R.G., Hepburn, J.C., Durfee Cardoza, K. and Hill, M., THE MARLBORO FORMATION IN ITS TYPE AREA AND ASSOCIATED ROCKS JUST WEST OF THE BLOODY BLUFF FAULT ZONE, MARLBOROUGH AREA, MASSACHUSETTS: *in* Hanson, L. (editor), Geology of the Coastal Lowlands Boston, Massachusetts to Kennebunk, Maine, New England Intercollegiate Geological Conference, 76th Annual Meeting, Salem, Massachusetts, 1984, pp. 271-291.
- Hepburn, J.C., Trask, N.J., Rosenfeld, J.L. and Thompson, J.B., Jr., GEOLOGY OF THE BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE: Vermont Geological Survey, Bulletin #32, 1984, 162p. with 2 Colored Plates, Geologic Map and Cross Sections.
- Goldsmith, R., Grew, E.S., Hepburn, J.C. and Robinson, G.R., Jr., FORMATION NAMES IN THE WORCESTER AREA, MASSACHUSETTS: U.S. Geological Survey Bulletin #1529-11, 1982, pp. H43-H56.
- Hepburn, J.C. and Rehmer, J., THE DIAGENETIC TO METAMORPHIC TRANSITION IN THE NARRAGANSETT AND NORFOLK BASINS, MASSACHUSETTS AND RHODE ISLAND: *in* Boothroyd, J.C. and Hermes, O.D. (editors), Guidebook to Geological Field Studies in Rhode Island and Adjacent Areas, 73rd New England Intercollegiate Geological Conf., Univ. of Rhode Island, 1981, pp. 47-65.
- Hepburn, J.C., CARBONIFEROUS DEPOSITS NEAR WORCESTER, MASSACHUSETTS: *in* Cameron, B., (editor), Carboniferous Basins of Southeastern New England: Field Trip Guidebook No. 5, 9th International Cong. Carboniferous Stratigraphy and Geology, Amer. Geol. Inst., Falls Church, VA, 1979, pp. 41-44.
- Hepburn, J.C., THE CARBONIFEROUS DEPOSITS NEAR WORCESTER, MASSACHUSETTS: *in* The Mississippian and Pennsylvanian (Carboniferous) Systems in the United States - Massachusetts, Rhode Island and Maine: Skehan, J.W., Murray, D.P., Hepburn, J.C., Billings, M.P., Lyons, P.C. and Doyle, R.G. (editors), U.S. Geological Survey Professional Paper #1110A, 1979, pp. 1-30.

- Murphy, D.P., Hepburn, J.C. and Rehmer, J.A., METAMORPHISM OF THE NARRAGANSETT BASIN: *in* Skehan, J.W., Murray, D.P. and Rider, T.H. (editors), Evaluation of Coal Deposits in the Narragansett Basin, Massachusetts and Rhode Island, U.S. Bureau of Mines Final Report for Contract No. J0188022, 1979, pp. 39-47.
- Hepburn, J.C., RECONNAISSANCE BEDROCK GEOLOGIC MAP OF THE SHREWSBURY QUADRANGLE, WORCESTER COUNTY, MASSACHUSETTS: U.S. Geological Survey, Open File Report #78-951, 1978, 14p.
- Hepburn, J.C. and DiNitto, R.G., PRELIMINARY BEDROCK GEOLOGIC MAP OF THE MARLBOROUGH QUADRANGLE, WORCESTER AND MIDDLESEX COUNTIES, MASSACHUSETTS: U.S. Geological Survey, Open File Report #78-222, 1978, 29p.
- Bombolakis, E.G., Hepburn, J.C. and Roy, D.C., FAULT CREEP AND STRESS DROPS IN SATURATED SILT-CLAY GOUGE: *Journal of Geophysical Research*, vol. 83, 1978, pp. 818-829.
- Hepburn, J.C., LOWER PALEOZOIC ROCKS WEST OF THE CLINTON-NEWBURY FAULT ZONE, WORCESTER AREA MASSACHUSETTS: *in* Cameron, B. (editor), Geology of Southeastern New England, New England Intercollegiate Geological Conference, 68th Annual Meeting, Guidebook, Science Press, Princeton, N.J., 1976, pp. 366-382.
- Hepburn, J.C., TECTONIC AND METAMORPHIC CHRONOLOGY OF THE DEVONIAN AND SILURIAN ROCKS IN THE GUILFORD DOME AREA, SOUTHEASTERN VERMONT: *in* Harwood, D.S. (editor), Tectonic studies of the Berkshire Massif, Western, Massachusetts, Connecticut and Vermont, U.S. Geological Survey Prof. Paper 888, 1975, pp. 31-49.
- Rehmer, J.A. and Hepburn, J.C., QUARTZ SAND SURFACE TEXTURAL EVIDENCE FOR A GLACIAL ORIGIN OF THE SQUANTUM TILLITE, BOSTON BASIN, MASSACHUSETTS: Reply: *in* FORUM, *Geology*, vol. 3, 1975, pp. 154-155.
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- Hepburn, J.C., GEOLOGY OF THE GUILFORD DOME AREA, SOUTHEASTERN VERMONT: *in* Doolan, B.L. and Stanley, R.S. (editors), Guidebook for field trips in Vermont, New England Intercollegiate Geological Conference, 64th Annual Meeting, 1972, pp. 231-243.
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Edited Volumes:

- Cheney, J.T. and Hepburn, J.C. (editors), FIELD TRIP GUIDEBOOK FOR THE NORTHEASTERN UNITED STATES: 1993 BOSTON GSA (Geological Society of America), 2 Volumes, Chaps. A-EE, 1993, Geological Society of America, Univ. of Massachusetts Press, Amherst, Massachusetts, 833 p.

Published Abstracts:

- CHARACTERIZING THE SOUTHWESTERN EXTENT OF THE NORUMBEGA FAULT SYSTEM, A MID-PALEOZOIC CRUSTAL-SCALE STRIKE-SLIP FAULT SYSTEM IN THE NEW ENGLAND APPALACHIANS, Gentry, E.N, Kuiper, Y.D., Holm-Denoma, C.S., and Hepburn, J.C., Geological Society of America, Abstracts with Programs, 2018, accepted for presentation at the Northeastern Section meeting, March, 2018.
- DETRITAL ZIRCON ANALYSIS OF BASEMENT IN THE COST NO. G-1 WELL, GEORGES BANK, OFFSHORE MASSACHUSETTS, FRAGMENTS OF WEST AFRICAN CRUST?, Kuiper, Y.D., Thompson, M.D., Barr, S.M., White, C.E., Hepburn, J.C. and Crowley, J. L., Geological Society of America, Abstracts with Programs, 2017, Vol. 49, No. 2, doi: 10.1130/abs/2017NE-289931.
- CONSTRAINTS ON DEVONIAN-CARBONIFEROUS DEFORMATION IN THE NASHOBA TERRANE, EASTERN MASSACHUSETTS, Buchanan II, John Wesley, Kuiper, Yvette D., Hepburn J. Christopher, and Williams, Michael L., Geological Society of America, Abstracts with Programs, 2017, Vol. 49, No. 2, doi: 10.1130/abs/2017NE-290834.

- DUCTILE EXTRUSION OF THE NASHOBA FORMATION DURING CONVERGENCE OF THE AVALON TERRANE WITH THE COMPOSITE LAURENTIAN MARGIN, EASTERN MASSACHUSETTS, Buchanan II, J.W., Kuiper, Y.D., Williams, M.L., and Hepburn, J.C., Geological Society of America, Abstracts with Programs, 2016, Vol. 48, No. 7, doi: 10.1130/abs/2016AM-284455.
- LINKING THE STRUCTURAL HISTORY OF THE ROCKY POND SLICE TO THOSE OF THE NASHOBA TERRANE AND MERRIMACK BELT OF EASTERN MASSACHUSETTS, He, Tammy, Kuiper, Y., and Hepburn, J. Christopher, Geological Society of America, Abstracts with Programs, 2016, Vol. 48, No. 7, doi: 10.1130/abs/2016AM-286892.
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SELECTED MISCELLANEOUS RECOGNITION BY AND/OR SERVICE TO PROFESSION:

Received the Distinguished Service Award from the Geological Society of American, 2016

Member of the Geological Society of America Foundation Board of Trustees, 2011- 2015

Appointed member of the Geological Society of America national committee to plan for the 125th year celebration of the Society in 2013, 2009 - 2013

Appointed member of the Geological Society of America, Annual Program Committee 2008-2011; Chair, 2011

Appointed member of Geological Society of America Geoscience Education Accreditation Committee 2006-2008

Elected to the Geological Society of America Council, 2002-2006.

Appointed to the Executive Committee, Geological Society of America for term 2003-2006

Appointed member of the Program Oversight Committee, Geological Society of America, 2003-2006

Chair, Geological Society of America Nominations Committee, 2004-2006

Appointed member of the Audit Committee, Geological Society of America, 2003-2006

Appointed Chair Geological Society of America Sections *Ad Hoc* Committee by the President of the GSA, 2004-2005.

General Chairman of the Geological Society of America National Meeting held in Boston in November, 2001.

Elected as a Fellow in the American Association for the Advancement of Science (AAAS).

Elected as a Fellow in the Geological Society of America.

Elected as a Fellow in the Geological Society of London.

Biography listed in "Outstanding Young Men of America", 1978

Co-convener of special symposium at the Geological Society of America Northeastern Section Annual meeting, March 2007.

Co-organizer of all-day symposium honoring Fr. James W. Skehan, S.J. at Geological Society of America, Northeastern Section meeting, March 2007.

Co-convener of Association of Engineering Geologists, Northeastern Section Annual meeting, March 2006 and 2007.

Elected "Member-at-Large" on the governing board of the Geological Society of America, Northeastern Section, 1983-85.

Invited Participant in the Geological Society of America sponsored Penrose Conference on "The Iapetus Ocean - Its Birth, Life and Death: The Wilson Cycle" in Edinburgh, Scotland, Sept. 2001.

Member of the Advisory Board to the Massachusetts State Geologist for Geological Mapping, 2004 – 2015.

Member of the Advisory Board to the Vermont State Geologist, 1980-1994.

Co-Chairman, Field Excursion Committee and member of the "local committee" for Geological Society of America National meeting in Boston, 1993.

Invited Field Excursion Leader and Co-leader for Geological Society of America, Natl. Meeting field trips, Boston, MA, 1993.

Field Trip Leader for New England Intercollegiate Geological Conference Field Trips in Vermont, 1972, 1997; Boston, 1976; Rhode Island, 1981, 1998; Eastern Massachusetts, 1984, 2004, 2014; Maine, 1986; New Hampshire, 1988; Western Massachusetts, 1992, 2003.

Invited field excursion leader, "Siluro-Devonian igneous rocks of the easternmost three terranes in southeastern New England: examples from NE Massachusetts and SE New Hampshire," Geological Society of America, Northeastern Section Annual Meeting, Durham, NH, March, 2007

Service to Boston College

Selected Service to Department of Geology and Geophysics/Department of Earth and Environmental Sciences

Acting Chairman of the Department of Earth & Environmental Sciences, Jan. 2012 – June, 2012.

Chairman of the Department of Geology and Geophysics, Jan. 1, 1980-June 30, 1989 & June 1, 1995- June 30, 2001.

Chairman of the Search Committee for a new faculty member, 2011

Chairman of Departmental Search Committee for two new faculty members, 1996-1997.

Departmental Graduate Committee, 1991-5, 2001-2011; Chairman, 1992-1995, 2009

Search Committee for new Director of Weston Geophysical observatory, 1992-1993.

Search Committee for new faculty member, 1993-94, 1995-96, 2002-2003, 2004-2005, 2008-2009

Selected Service to the College/University:

Appointed by University Provost as Chairman, University Council on Teaching, 2002- June 2012

Elected member, Faculty Review Panel, 2002-2005

Member Boston College Committee for accreditation review-NEASC, 2006-2007

Member of Advisory Committee on Electronic Course Evaluations 2005- 2013

Member, Strategic Planning for the Sciences Committee 2004-2005

Chairman, Search Committee to find a new Chairperson for the Physics Department, 1994-95.

Elected faculty representative to the University Budget Committee, 1990-92, 1996-98.

Member of the Board of Chairpersons, College Arts and Sciences, Jan. 1980-June 1987; Sept. 1988-June 1989, June 1995-June 2001, Jan. 2012 – June 2012.

Member Executive Committee, Board of Chairpersons, 1996, 1988-89, 1985-86, 1981-82, 2000-01.

Member A & S Committee to Evaluate Faculty Fellowship and 80% Sabbatical Applications, 1990, 2001, 2002.

Member A & S *Ad Hoc* Committee to read and review Scholar of the College theses for awards, 2001-2005.

Appointed to the Administrative Board for Academic Integrity for the College of Arts and Sciences, 1992-94.

Member, subcommittee of the Board of Chairpersons on budget matters and chair, subcommittee looking into capital equipment and service contracts, 1988-89.

Appointed member, University Search Committee for a new Academic Vice President, 1987.

Member, College of Arts and Sciences Goals for the 1990's Committee, 1985-86.

Member, University Review Committee for the Goals of the 1990's statements, 1985-86.

Represented the College of Arts and Sciences to the Board of Trustees, Academic Affairs Subcommittee, on The Goals of the 1990's., spring 1986.

Elected Member Faculty Senate, College of Arts and Sciences, 1984-1987.

Member University Research Council, 1980-86.