

## JAMES P. HIBBARD

### Home address:

1916 Lost Cove Lane  
Raleigh, NC 27603  
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### Business address:

MEAS Box 8208  
North Carolina State University  
Raleigh, NC 27695  
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**BORN:** October 8, 1951, Nyack, New York, American citizen

### EDUCATION

*Ph.D. Geology* (1988) Department of Geosciences, Cornell University, Ithaca, New York; thesis title "Deformation paths in an accretionary prism: the Tertiary Shimanto complex, Shikoku Island, Japan"; thesis supervisor Dr. D.E. Karig. Minor studies: Geotechnical Engineering

*M.Sc. Geology* (1976) Memorial University of Newfoundland, St. John's, Newfoundland. Thesis title: "The Southwestern Extension of the Dunnage Melange and its Relationship to Nearby Groups"; thesis supervisor Dr. H. Williams.

*B.A. Geology*, with honors (1973) Colgate University, Hamilton, New York graduated magna cum laude.

### ACADEMIC POSITIONS

Professor (2001-present) Dept. of Marine, Earth and Atmospheric Sciences,  
North Carolina State University, Raleigh, NC 27695-8208  
Associate Professor (1994-2001) MEAS, NCSU  
Assistant Professor (1988-1994) MEAS, NCSU

### COURSES TAUGHT

#### UNDERGRADUATE

MEA 120 Physical Geology  
MEA 140 Natural Hazards  
& Global Change  
MEA 451 Structural Geology  
MEA 435 Engineering Geology  
MEA 465 Geologic Field Camp  
MEA 491 Senior Seminar  
MEA 493 Field Camp Preparation

#### GRADUATE

MEA 789 Appalachian Geology  
MEA 500 Regional Geology  
of North America  
MEA 788 Advanced Structural Geology  
MEA 588 Regional Tectonics  
MEA 790 Geotectonics

### GRANTS AND AWARDS

**2005-2008:** National Science Foundation "A record of the timing, nature, and geometry of the Rheic Ocean in the Appalachian Carolina and Avalon zones" \$192,869

**2004-2005:** Maine Geological Survey "Origin and evolution of the Ellsworth terrane, coastal Maine" \$10,000

**2003-2004:** National Science Foundation "Lithotectonic Map of the Appalachian Orogen - Production Phase" \$24,499

- 2002-2006:** National Science Foundation “An Early Cambrian tectonothermal event in the Smith River allochthon, SW Virginia: Implications for southern Appalachian tectonics” \$148,671
- 2001-2004:** National Science Foundation “Kinematics and Geochronology of the Gold Hill Shear Zone: Implications for accretion of the peri-Gondwanan Carolina Zone in the southern Appalachians” \$89,871
- 1998-01:** National Science Foundation “Lithotectonic Map of the Appalachian Orogen” \$52,037
- 1998:** United States Geological Survey EDMAP award “Geology of the Albemarle Group, Morrow Mtn. and Badin Quadrangles, North Carolina” \$19,999
- 1998:** NCSU ETF Funds for GPS equipment (w/ T. Drake) \$48,000
- 1995-98:** National Science Foundation “Structural and isotopic characterization of the Milton belt, axial zone of the southern Appalachians“(with Scott Samson, Syracuse University) \$74,775
- 1994:** Faculty Development and Research Support Award, North Carolina State University; “Timing and nature of Paleozoic North America-Gondwana interactions” \$4965
- 1992-95:** National Science Foundation, “Isotopic and structural studies along the western boundary of the Carolina slate belt”, (with Scott Samson, Syracuse University) \$56,799
- 1992:** Maine Geological Survey; “The Millimagassett Transpression Zone”\$6000
- 1991:** Maine Geological Survey; "Geology of the Millinockett Lake-Grand Lake Seboeis region" \$5500
- 1991:** Uchida Oceanographic Research Fund, Tokyo Institute of Tech.; co-convene Muroto Internatl. Conf. on Accretionary Prisms, Muroto, Japan \$2100
- 1991:** North Carolina Japan Center; Travel award \$500
- 1990:** Faculty Research and Professional Development Fund, North Carolina State University; "A window into the geology of the mid-crust: Caswell County, NC" \$3500
- 1990:** Maine Geological Survey; "Geology of the Saddle Pond inlier, north-central Maine" \$3300

### **THESES SUPERVISED**

- 2007: Jeff Pollock, PhD. "The Neoproterozoic-early Paleozoic tectonic evolution of the peri-Gondwanan margin of the Appalachian Orogen: an integrated geochronological, geochemical, and isotopic study from North Carolina and Newfoundland"
- 2006: Gordon Box, M.S. "The structural character of the Smith River allochthon and the Lynchburg Group and implications for the nature of the Ridgeway fault near Pittsville in southwest Virginia"
- 2005: John Allen, M.S. "The Structure and kinematics of the Gold Hill fault zone in the vicinity of Waxhaw, North Carolina"
- 2003: Issac Standard, M.S. " Kinematics and timing of the Gold Hill fault zone in the vicinity of High Rock Lake, south-central North Carolina"
- 1999: Sonja Ingram, M.S. “Geology of the northern half of the Morrow Mountain quadrangle, North Carolina: A revision of the Albemarle Group

- 1998: Bart Cattanach, M.S. "Geologic history of the central Milton terrane in the Laurel Grove, Virginia area"
- 1997: Mutlu Ozdogan, M.S. "Geology of the Fall Creek thrust at the western margin of the Milton terrane near Mount Hermon, Virginia"
- 1996: Phillip Bradley, M.S. "The structural relationship between the Hyco shear zone and the Milton terrane in the South Boston, Virginia area"
- 1996: Glenn Shell, M.S. "Nature of the Carolina slate belt - Milton belt boundary in the area of Yanceyville, North Carolina"
- 1990: Mark Preddy, M.S.: "Significance of regional Mesozoic extension from brittle fractures in the Carolinas"
- In progress: M.S.: Matt Brennan, Jillian Kurek, Jeff Bowman

Graduate student committee member:

	Current	Completed/Withdrawn
Ph.D.	1	6 (2 @Duke, 2@Syracuse, UNC-CH)
M.Sc.	3 (1 @ UNC-CH)	8 (3 @ Duke, 2 @UNC-CH)
External Examiner:	1 M. Sc. thesis @ Memorial University of Nfld., St. John's, Nfld. 1 Ph.D. thesis @ Dalhousie University, Halifax, Nova Scotia	

## **PREVIOUS EMPLOYMENT**

### PROFESSIONAL POSITIONS

- Chief compiler (1983) Preliminary Geological Map of Newfoundland, Newfoundland Dept. of Mines and Energy, Mineral Development Division, St. John's, Newfoundland. Division head P.L. Dean.
- Project Geologist (1977-1982) Newfoundland Dept. of Mines and Energy, Newfoundland Mapping Division, St. John's, Newfoundland, organized and implemented a 1:50,000 scale field mapping project of the Baie Verte Peninsula encompassing a wide variety of rock terranes. Supervised 2 man parties in 1977, 1980, and 1981, 5 man party in 1978, and 6 man party in 1979. Division head Dr. R. Smyth.
- Research associate (1976) Memorial University of Newfoundland; assistant compiler of the Tectonic-Lithofacies map of the Appalachian Orogen. Supervisor Dr. H. Williams.

### OTHER TEACHING POSITIONS

- Instructor (1987) Cornell field course, Barbados, W.I.
- Instructor (1984) Cornell-Yale-Harvard field camp, Saratoga, Wyoming.
- Instructor (1975 & 1976) Memorial University of Newfoundland field camp.

### MINERAL INDUSTRY CONTRACTS

- Consultant (1983) Phillips Management Corp. on rocks of Baie Verte, Newfoundland.
- Consultant (1980) Rio Canex Ltd. on rocks of the Baie Verte area, Newfoundland.
- Contract (1975) Newfoundland Exploration Co., claim staking and soil sampling .

### SUMMER AND OTHER POSITIONS

- Research assistant (1974-1975) Energy Mines and Resources Canada; field study of melanges of central Newfoundland. Supervisor: Dr. H. Williams
- Woods Hole Oceanographic Summer Fellowship (1973) study of free-air gravity anomalies over the continental United States. Supervisor Dr. C Bowin.
- Contract (1973) Madison County Planning Board, Wampsville, New York; project

compiling and publishing guide to Madison County geology. Immediate supervisor Mr. T. Halibey.  
Field Assistant (1972) Virginia Division of Mineral Resources, Charlottesville, Virginia; field mapping of the Daleville Quadrangle. Assistant to Dr. O.S. McGuire.

### **PROFESSIONAL AFFILIATIONS**

Geological Society of America: fellow since 1991, member since 1984  
Associate Editor of Geological Society of America Bulletin, 2000-  
Member of Research Committee, 1994-1997  
Member of Nominations Committee, 2006-2009  
American Geophysical Union: member.  
Carolina Geological Society: member.  
Sigma Xi: member.

### **PROFESSIONAL ACTIVITIES:**

Symposium co-organizer and co-chair (2008) Paleozoic Accretion of Arcs and Microcontinents in the Appalachians: In Honor of Douglas W. Rankin, NE section, Geological Society of America meeting, Buffalo, New York  
Session co-organizer and co-chair (2007) Evolution of Appalachian Salients and Recesses from Reentrants and Promontories in the Continental Margin: Thirtieth Anniversary Celebration of Advances Derived from Bill Thomas' 1977 American Journal of Science Paper, Geological Society of America National meeting, Denver, Colorado  
Keynote Speaker (2007) The Map that Moved Mountains, Geological Association of Canada special conference, St. John's, NL Canada  
Session co-organizer and co-chair (2007) Recent Developments in Piedmont Geology, SE section, Geological Society of America meeting, Savannah, Georgia  
Steering Committee: Geotraverse workshop (2006), St. Louis, Missouri; NSF funded workshop to tie bedrock geology into the NSF EarthScope project.  
Special Session co-organizer & co-chair (2005) Assembling Avalon and Other Peri-gondwanan Terranes, Geological Association of Canada National Meeting, Halifax, Nova Scotia, Canada.  
Associate Editor - Geological Society of America Bulletin: (2000-  
Participant (2004) NSF sponsored workshop Research Frontiers in Appalachian Geology, Arlington, VA  
Symposium co-organizer and co-chair (2004) The Appalachian Peri-Gondwanan Realm, NE-SE Geological Society of American combined sectional meeting, McLean, VA  
Keynote Speaker (2003) Terrane Accretion along the Pacific Margin of Gondwana; conference at Cambridge University, Great Britain.  
Symposium co-organizer and co-chair (2001) Arc terranes of the Appalachians, National Geological Society of America annual meeting, Boston, Mass.  
Field trip organizer and co-leader (2001) Framing the Piedmont Zone in North Carolina and southern Virginia, SE section, Geological Society of America, Raleigh, North Carolina  
Participant (2000) Penrose Conference: The Iapetus Ocean - Its Birth, Life, and Death:

The Wilson Cycle , Edinburgh, Scotland.

National Science Foundation Tectonics Panel: panel member, 1998-2001

Symposium co-organizer and co-chair (1997) Tectonics and Isotopes in the Appalachians, Southeast Section, Geological Society of America annual meeting, Auburn, Alabama.

Honorary Board Member(1997- ) Fundy Geological Museum, Nova Scotia, Canada

Geological Society of America Research Committee: member, 1994-1997

Chief Editor (1995) ‘Current Perspectives in the Appalachian-Caledonian Orogen’ Geological Association of Canada Special Paper 41.

Participant (1995) International Geological Correlation Program Project 376 Laurentian-Gondwanan Connections Field Conference, Jujuy, Argentina

Participant (1995) GSA Penrose Conference The Argentine Precordillera: a Laurentian terrane? San Juan, Argentina

Chief convener of Geological Association of Canada Nuna Conference: (1994) ‘New Perspectives in the Appalachian-Caledonian Orogen’ Grand Falls, Newfoundland, August 12-16.

Co-leader and co-organizer of NSF Faculty Enhancement Program Workshop: (1992) “Tectonic Development of the Appalachian Orogen”

Reconnaissance of a collision zone (1991) 2 week pilot study of the collision zone between the d'Entrecasteaux Zone and the New Hebrides arc, Vanuatu, South Pacific

Co-convener and field trip leader (1991) Muroto International Conference on Accretionary Prisms, Tokyo and Muroto, Japan

Field trip leader (1990) COSEN Summer field trip: Geology of the Newfoundland Appalachians, involving undergraduate students and faculty from Furman University, Davidson College, Ohio Wesleyan University, University of South Carolina, Millsaps University, and North Carolina State University

Participant (1988) DELP Symposium, Tectonics of Eastern Asia and Western Pacific Continental Margin, Tokyo, Japan

Participant (1988) oceanographic cruise: Intra-arc basins of the Philippines. Co-chief scientists S. Lewis and D. Sarewitz.

Participant (1986) Kaiko Conference on Subduction Zones, Tokyo and Shimizu, Japan.

Participant (1984) Penrose Conference on Structural Styles and Deformational Fabrics of Accretionary Complexes, Eureka, California.

Field trip co-leader (1983) NATO-IGCP Symposium trips "Notre Dame Bay Island Arc, Ophiolite, and Melange Complexes" and "Trans-Newfoundland Trip".

Participant (1979) IGCP Appalachian-Caledonide meeting, Blacksburg, Virginia and participated in field trip of southern Appalachians.

Field trip co-leader (1978) G.A.C. Newfoundland Sect. Field Trip to the Baie Verte Peninsula.

*Invited lectures: Keynote Speaker, The Map that Moved Mountains, Geological Association of Canada special conference, St. John's, NL Canada, 2007); Geological Society of America Northeast Section meeting (2007 - Theme Session in honor of Dr. James Skehan) Geophysical Union Fall Meeting (2006 - GeoFrame: A Geologic Framework for EarthScope's USArray); Geological Society of America Northeast Section meeting (2006 - Time Slices through the Appalachian Orogen); Geological Association*

of Canada National Meeting (2005 - Assembling Avalon and other peri-Gondwanan Terranes); Geological Society of America Northeast Section meeting (2005 - The Taconic orogeny); Geological Society of America National Meeting, Denver (2004 - Ray Price Symposium); University of Iowa (2003); *Keynote Speaker*, Terrane Accretion along the Pacific Margin of Gondwana (British Antarctica Survey and Geological Society-Cambridge, UK, 2003); University of Tennessee (2003); East Carolina University (2003); University of Kentucky (2002 - 1st Brown Lecture on Appalachian Tectonics); University of Georgia (2001); Bowdoin College (2000 - Appalachian Symposium); SE Section Geological Society of America (2000); UNC-Chapel Hill (1999); NE Section, Geological Society of America (1998); SE Section Geological Society of America (1994); Duke U. (1993); UNC-Charlotte (1993); Assembly of Gondwana-NSF sponsored workshop, UNC-Chapel Hill (1993), NE Section Geological Society of America (1993); Furman U. (1993); Kyushu U., Japan (1991); U. South Carolina, Aiken (1991); John Wesley Powell Society, Washington D.C. (1990); Virginia Polytechnical Institute (1989); U. Vermont (1988); Duke U. (1988); U. South Carolina, Columbia (1980); Atlantic Geoscience Institute Annual Meeting (1978); U. Georgia (1976).

**Reviewer:** (ongoing) Geological Survey of Canada, Virginia Dept. of Mineral Resources Map Series, North Carolina Geological Survey, Geological Society of America Bulletin, Geology, Geological Society of America Special Papers, Geological Society of America Map and Chart Series, Geological Association of Canada Special Volumes, Journal of Structural Geology, Tectonics, Tectonophysics, American Journal of Science, Journal of Geology, Journal of Geodynamics, Geol. Soc. London Special Volumes, Canadian Journal of Earth Sciences, Economic Geology, Chemical Geology, The Island Arc, Southeastern Geology, ODP Volume, Journal of Geoscience Education, National Science Foundation, American Chemical Society, NSERC Canada, NATO International Scientific Exchange Grants.

**External Reviewer for Promotion/Tenure** for faculty at: University of Kentucky (associate to full), University of Waterloo (associate to full), University of Maine, Farmington (assistant to associate), The College of William and Mary (assistant to full, tenure), Université de Québec, Québec (equiv. of assoc. to full), St. Mary's University, Wolfville, Nova Scotia (assoc. to full), Memorial University of Newfoundland, St. John's, Nfld. (assoc. to full).

**PUBLICATIONS** (\*=grad student co-author; \*\*=undergraduate co-author)

**JOURNALS, VOLUMES, and TEXTS**

Hibbard, J., Henika, W., Beard, J., and Horton, J.W., 2008, The Western Piedmont; *in* Bailey, C. and Berquist, R., eds., *The Geology of Virginia*, Virginia Dept. of Mineral Resources

Horton, J.R., Jr., Owens, B.E., Hackley, P.C., Burton, W.C., Sacks, P.E., Hibbard, J.P., and Bailey, C.M., 2008, The Eastern Piedmont; *in* Bailey, C. and Berquist, R., eds., *The Geology of Virginia*, Virginia Dept. of Mineral Resources

Allen, J., Hibbard, J., and Boland, I., 2008, Structure, kinematics, and timing of the Gold Hill fault zone in Hancock, South Carolina, and Waxhaw, North Carolina, *South Carolina Geology*, v. , p.

- Hibbard, J., van Staal, C., and Rankin, D., 2007, A comparative analysis of pre-Silurian crustal 'building blocks' of the northern and southern Appalachians, *American Journal of Science*, v. 307, p. 23-45.
- Hibbard, J., van Staal, C., and Miller, B., 2007, Links between Carolina, Avalonia, and Ganderia in the Appalachian peri-Gondwanan Realm, in Sears, J., Harms, T., and Evenchick, C., eds., *From Whence the Mountains?: Inquiries into the Evolution of Orogenic Systems: A Volume in Honor of Raymond A. Price*, GSA Special Paper 433, p. 291-311.
- Tikoff, B., van der Pluijm, B., Hibbard, J., Keller, R., Mogk, D., Selverstone, J., and Walker, D., 2006, An integrated geologic framework for EarthScope's US Array, *EOS*, v. 87, n. 23, p. 221-225.
- Hibbard, J., van Staal, C., Rankin, D., & Williams, H., 2006. Geology, Lithotectonic Map of the Appalachian Orogen (South), Canada-United States of America. Geological Survey of Canada, Map 02096A, scale 1:1500000.
- Hibbard, J., Miller, B., Tracy, R., & Carter, B., 2006. The Appalachian peri-Gondwanan realm: A paleogeographic perspective from the south. In Vaughan, A. & Leat, P. (eds.) *Terrane Processes at the Pacific Margin of Gondwana*. Geological Society of London Special Volume. 246, 97-112.
- Carter, B., Hibbard, J., Tubrett, M., and Sylvester, P., 2006. LA-ICP-MS U-Pb Geochronology of detrital zircons within the Smith River Allochthon and Lynchburg Group, southern Appalachians: Implications for the Early Cambrian evolution of the eastern Laurentian margin, *Precambrian Research*, v. 147, p. 279-304.
- Hibbard, J., van Staal, C., Rankin, D., & Williams, H., 2004. A new lithotectonic map of the Appalachian orogen. *The Professional Geologist*, p. 45-49.
- Hibbard, J., 2004, The Appalachian Orogen, in van der Pluijm, B. and Marshak, S., 2nd edition, *Earth Structure: An Introduction to Structural Geology and Tectonics*, WCB/McGraw Hill, 582-592.
- Pollock, C.J.\*, Stewart, K. G., Hibbard, J., Wallace, L.\*, and Giral, R.\*, 2004, Structural relationship of high-angle reverse and thrust faults in a Laramide uplift: Sierra Nacimiento, New Mexico, *New Mexico Bureau of Geology and Mineral Resources, Bulletin 160*, p. 97-112.
- Hibbard, J., Tracy, R.J., and Henika, W.S., 2003, Smith River allochthon: A southern Appalachian peri-Gondwanan terrane emplaced directly on Laurentia? *Geology*, 31, 215-218.
- Hibbard, J., Stoddard, E.F., Secor, D., Jr., and Dennis, A., 2002, The Carolina Zone: Overview of Neoproterozoic to early Paleozoic peri-Gondwanan terranes along the eastern flank of the southern Appalachians: *Earth Science Reviews*, 57, p. 299-339.
- Hibbard, J., 2000, Docking Carolina: Mid Paleozoic accretion in the southern Appalachians, *Geology*, 28, 127-130.
- Coler, D.\*, Samson, S., and Hibbard, J., 2000, The Chopawamsic and Milton terranes: Correlative Ordovician arc terranes built on ancient continental crust, southern Appalachians, *Journal of Geology*, 108, p. 363-380.
- Wortman, G.\*, Samson, S., and Hibbard, J., 2000, Precise U-Pb zircon constraints on the early magmatic history of the Carolina terrane, *Journal of Geology*, 108, p.

- Hibbard, J., Shell, G.\*, Bradley, P.\*, Samson, S., and Wortman, G.\* 1998, The Hyco shear zone in North Carolina and southern Virginia: Implications for the Piedmont Zone - Carolina Zone boundary in the southern Appalachians: *American Journal of Science*, v. 298, p. 85-107.
- Wortman, G.\*, Samson, S., and Hibbard, J., 1998, Precise U-Pb zircon timing constraints on the kinematic development of the Hyco shear zone: Implications for the central Piedmont shear zone, southern Appalachian Orogen: *American Journal of Science*, v. 298, p. 108-130.
- Vines, J.\*\*\*, Hibbard, J., and Shell, G.\*, 1998, Structural geology of the High Rock granite; Implications for displacement along the Hyco shear zone, North Carolina, *Southeastern Geology*, v 37, 163-176.
- Wortman, G.\*, Samson, S., and Hibbard, J., 1996, Discrimination of the Milton belt and Carolina terrane in the southern Appalachians: a Nd isotopic approach, *Journal of Geology* 104, p. 239-247.
- Hibbard, J. and Samson, S., 1995, Orogenesis exotic to the Iapetan cycle in the southern Appalachians, 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, p 191-205.
- Samson, S., Hibbard, J., and Wortman, G.\*, 1995, Nd isotopic evidence for juvenile crust in the Carolina terrane, southern Appalachians, *Contributions to Mineralogy and Petrology* 121, 171-184.
- Hibbard, J., St. Julien, P., and Triecienski, W. Jr., 1995, Intensely deformed interior parts of the Humber Zone Miogeocline, in Williams, H. (ed.), *The Canadian Appalachian Region*, Geological Society of America DNAG volume F-1, 114-139.
- Williams, H., Kidd, W., and Hibbard, J., 1995. Springdale Belt - Mic Mac Lake area, in Williams, H. (ed.), *The Canadian Appalachian Region*, Geological Society of America DNAG volume F-1, 394-395.
- Hibbard, J., 1994. Kinematics of Acadian deformation in the northern and Newfoundland Appalachians. *Journal of Geology*, p. 215-228.
- Hibbard, J. & Hall, S.\*, 1993, Early Acadian sinistral shear in north-central Maine, to *Journal Geological Society*, London, 150, 815-818.
- Hibbard, J., Laughland, M.\*, Kang, S.\*, & Karig, D., 1993, Thermal imprint of spreading ridge subduction on the upper structural levels of an accretionary prism; southwest Japan, in Underwood, M. (ed.), *Thermal Maturity of an Accretionary Prism, the Shimanto Belt of Southwest Japan*, Geological Society America, Special Paper 273, 83-101.
- Hibbard, J. & Larue, D., 1993, Organic geochemistry and thermal maturity of the Nabae subbelt, Upper shimanto Belt, based on Rock-Eval pyrolysis, in Underwood, M. (ed.), *Thermal Maturity of an Accretionary Prism, the Shimanto Belt of Southwest Japan*, Geological Society of America Special Paper 273, 115-120.
- Underwood, M., Hibbard, J., and DiTullio, L.\*, 1993, Geologic summary and conceptual framework for the study of thermal maturity within the Upper Shimanto accretionary complex, Shikoku, Japan, in Underwood, M. (ed.), *Thermal Maturity of an Accretionary Prism, the Shimanto Belt of Southwest Japan*, Geological Society of America Special Paper 273, 1-24.

- Underwood, M., Byrne, T., Hibbard, J., DiTullio, L.\*, and Laughland, M.\*, 1993, The effects of ridge subduction on the thermal structure of accretionary prisms: An example from the Upper Shimanto Belt, Japan, in Underwood, M. (ed.), *Thermal Maturity of an Accretionary Prism, the Shimanto Belt of Southwest Japan*, Geological Society of America Special Paper 273, 151-168.
- Hibbard, J., Karig, D., and Taira, A., 1992, Oligocene-Miocene geology of the Shimanto accretionary prism, Murotomisaki, southwest Japan, *The Island Arc*, 1, 133-147.
- Underwood, M., Laughland, M.\*, Byrne, T., Hibbard, J., & DiTullio, L.\*, 1992, Thermal Evolution of the Tertiary Shimanto Belt, Muroto Peninsula, Shikoku, Japan, *The Island Arc*, 1, 116-132
- Hibbard, J. and Karig, D., 1990, An alternative model for the early Miocene evolution of the southwest Japan plate margin, *Geology*, 18, 170-174.
- Hibbard, J. and Karig, D., 1990, Structural and magmatic responses to spreading ridge subduction; and example from southwest Japan, *Tectonics*, 9, 207-230.
- Hibbard, J., 1988, Stratigraphy of the Fleur de Lys Belt, northwestern Newfoundland, in Winchester, J. (ed.), *Later Proterozoic Stratigraphy of the North Atlantic Lands*, Blackie and Son Ltd., Glasgow, 200-211.
- Hibbard, J., and Karig, D., 1987, Sheath-like folds and progressive fold deformation in Tertiary sedimentary rocks of the Shimanto accretionary complex, Japan, *Journal of Structural Geology*, 9, 845-857.
- Byrne, T., & Hibbard, J., 1987, Landward vergence in accretionary prisms: the role of the backstop and thermal history, *Geology*, 1163-1167.
- Contributor to: Williams, G., Fyffe, L., Wardle, R., Colman-Sadd, S., and Boehner, R. (eds.), 1985, *Lexicon of Canadian Stratigraphy, Volume VI, Atlantic Region*, Canadian Society of Petroleum Geologists, Calgary.
- Dallmeyer, D., & Hibbard, J., 1984, Geochronology of the Baie Verte Peninsula, Newfoundland: implications for the tectonic evolution of the Humber and Dunnage Zones of the Appalachian Orogen, *Journal of Geology*, 92, 489-512.
- Hibbard, J., 1982, Significance of the Baie Verte Flexure, Newfoundland, *Geological Society of America Bulletin*, 93, 790-797.
- Hibbard, J., & Williams, H., 1979, Regional Setting the Dunnage Melange, north-central Newfoundland, *American Journal of Science*, 279, 993-1021.  
NOTE: This paper also included in Fairbridge, R. (ed.), *Ophiolitic Melanges, Benchmark Papers in Geology*, Hutchinson & Dowden, New York.
- Hibbard, J., Stouge, S., & Skevington, D., 1977, Fossils from the Dunnage Melange, north-central Newfoundland, *Canadian Journal of Earth Sciences*, 14, 1176-1178.
- Williams, H., Hibbard, J., & Bursnall, J., 1977, Geologic setting of asbestos bearing ultramafic rocks along the Baie Verte Lineament, Newfoundland, *Geological Survey of Canada paper 77-1A*, 351-360.
- Williams, H., & Hibbard, J., 1976, The Dunnage Melange, Newfoundland, *Geological Survey of Canada paper 76-1A*, 183-185.

### **BOOK REVIEWS**

- Hibbard, J., 1998, Review of *Central and Southern Appalachian Sutures: Results of the EDGE Project and Related Studies*, *Tectonophysics*, 290, p. 325-328.

## FIELD TRIP GUIDEBOOKS

- Hibbard, J., Pollock, J., Allen, J., and Brennan, M., 2008, The Heart of Carolina: stratigraphic and tectonic studies in the Carolina terrane of central North Carolina, Geological Society of America Field Trip Guidebook, SE Section Meeting, Charlotte, NC, 54 p.
- Henika, W. Hibbard, J., and Beard, J., 2006, Geology in the Southside Virginia Piedmont, Virginia Field Conference Guidebook no. 6, 28 p.
- Hibbard, J., McMenamin, M., Pollock, J., Weaver, P., Tacker, C., Miller, B., Samson, S., and Secor, D., 2006, Significance of a new Ediacaran fossil find and U-Pb zircon ages from the Albemarle Group, Carolina terrane of North Carolina, *in* Bradley, P., Wooten, R., Latham, R., and Gay, K., eds., Carolina Geological Society Annual Field Trip Guide, p. 29-33.
- Pollock, J. and Hibbard, J., 2006, Geochemistry of the Stony Mountain Gabbro, North Carolina: implications for the early Paleozoic evolution fo Carolina, *in* Bradley, P., Wooten, R., Latham, R., and Gay, K., eds., Carolina Geological Society Annual Field Trip Guide, p. 69-78.
- Hibbard, J.P., Stewart, K.G., and Henika, W.S., 2001, Framing the Piedmont zone in North Carolina and southern Virginia: *in* Hoffman, C.W., ed., Field Trip Guidebook, 50th Annual Meeting, Southeastern Section Geological Society of America, Raleigh, North Carolina, p. 1-26.
- Wilkins, J.K.\*, Shell, G.\*, and Hibbard, J.P., 1995, Geologic contrasts across the central Piedmont suture in north central North Carolina, *in* Dennis, A., Geology of the western part of the Carolina terrane, South Carolina Geology, v.38, 1-9.
- Hibbard, J., 1993, The Milton belt-Carolina slate belt boundary; The northern extension of the Central Piedmont Suture?, *in* Hatcher, R. and Davis, T. (eds.), 1993 Carolina Geological Society Guidebook, 85-89.
- Hibbard, J., 1992, Introduction to the tectonic development of the Appalachian Orogen, *in* NSF Workshop on Tectonic Development of the Appalachian Orogen, p. 1-1 - 1-15.
- Hibbard, J., 1992, Newfoundland Appalachian Transect, *in* NSF Workshop on Tectonic Development of the Appalachian Orogen, p. 5-1 - 5-51.
- Stewart, K. and Hibbard, J., 1992, Late Cretaceous thrust faulting at the eastern edge of the San Juan Basin, NM, San Juan Basin IV: New Mexico Geological Society Guidebook, 43.
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#### **OTHER PUBLICATIONS**

Hibbard, J., 1974, Geology of Madison County, Madison County Planning Board, Wampsville, New York, 42 p.

#### **OTHER AWARDS & SCHOLARSHIPS**

Most Outstanding Graduate Student Award (1987-1988) Cornell University Department of Geological Sciences.

Stearns Award (1987; 1985) for geological studies around the Pacific rim, G.S.A.

Elected to Sigma Xi (1985)

Sigma Xi Grant-in-Aid (1985) from national chapter.

Sigma Xi Grant-in-Aid (1985) from Cornell chapter.

Excellence in Teaching Award (1984) from Tau Beta Pi, the Cornell Society of Engineers.

Elected to Phi Beta Kappa, Eta Chapter (1973)

Colgate University scholarship (1973) study of Mexican volcanoes and glaciers.