

## ***RESUME***

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### **EDUCATION**

1958, B.S. in geology, University of Washington (with two years of engineering).

1959, MS with honors in geology, University of Washington.

1962, Ph.D in geology: University of Washington; Thesis on Pleistocene glacial geology of the northern Puget Lowland under the direction of J. Hoover Mackin.

### **EMPLOYMENT**

1959 Joined the faculty at Western Washington University, and together with Marie Pabst, founded the *Geology* Dept.

1964 Associate Professor of *Geology*

1968 Professor of *Geology*

Appointed department chairman in 1965 and served three 4-year terms until 1977.

## **SUMMARY AND HIGHLIGHTS**

### **PUBLICATIONS**

140 publications

8 books

Presented 30 research papers at international meetings in 12 countries outside the US

### **RESEARCH GRANTS**

9 National Science Foundation Research grants (each for 2-3 years)

4 research grants from the Dept. of Interior and US Geological Survey

### **CURRENT RESEARCH PROJECTS**

Cosmogenic isotope dating of glacial deposits in New Zealand, Argentina, and Washington

Abrupt global climatic changes during the termination of the last Ice Age.

Cause of the Ice Ages

Late Ice Age alpine glaciation in the Nooksack River drainage, North Cascades, Wash.

Triggering of gigantic, deep-seated bedrock landslides in the North Cascades, Nooksack River area by shallow, intense earthquakes.

Recent faulting and seismic activity in NW Washington and SW British Columbia.

Volcanic eruptions and mudflows from Mt. Baker.

Fluctuations of alpine glaciers on Mt. Baker during the past five centuries and their relationship to global warming.

Radiocarbon reservoir effects in the Pacific NW.

Debris torrents and slope stability related to deforestation in Whatcom County.

Fluctuations of Ice Age glaciers in the Pacific NW

## OFFICES IN PROFESSIONAL SOCIETIES

### INTERNATIONAL

Director of field excursions for the 2003 International Quaternary Congress.

Associate Editor, *GEOMORPHOLOGY* (International Journal) 1987-1995.

U.S. representative to UNESCO International Geological Correlation Project, *Glaciations in the Northern Hemisphere*, (1973-76)

Member of International Geological Correlation Project, UNESCO, (1973-1990).

Member of International Quaternary Association (1965-present)

Member, Commission on genesis of glacial deposits

Member, Commission on Quaternary Stratigraphy of North America

Member of first AMQUA Council

### NATIONAL

1995-present Associate Editor, national Geological Society of America Bulletin (the primary national journal for publication of geologic research).

1986 Received national award for "*Distinguished service to the Quaternary Geology and Geomorphology Division, Geological Society of America.*"

1983-84 Elected national chairman of Quaternary Geology and Geomorphology Division, Geological Society of America

1982-83 Elected national 1st-vice-chairman of Quaternary Geology and Geomorphology Division, Geological Society of America

1981-82 Elected national 2nd-vice-chairman of Quaternary Geology and Geomorphology Division, Geological Society of America

- 1970-82 Elected national secretary of the Quaternary *Geology and Geomorphology* Division, *Geological Society of America*, 6 times (12 years total)
- 1977 Chairman of the *Geological Society of America* national meeting in Seattle
- 1970-82 National Chairman of the Quaternary *Geology and Geomorphology* Panel to select the Kirk Bryan Award for the best paper in geomorphology
- 1970-84 Member of national Quaternary *Geology and Geomorphology* Division Management Board
- 1970-81 Member of national *Geological Society of American* Committee on Grants and Awards
- 1968-70 National council member, American Quaternary Research Association.

### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

*Geological Society of America* (Fellow)  
 Quaternary *Geology and Geomorphology* Division  
*American Geophysical Union*  
*International Quaternary Assoc.*  
*American Quaternary Assoc.*

### **RESEARCH GRANTS AND AWARDS**

1996-2000 NATIONAL SCIENCE FOUNDATION Research Grant  
 1987-1990 NATIONAL SCIENCE FOUNDATION Research Grant  
 1987-1988 U.S. *Geological Survey* Research Grant  
 1983-1984 Whatcom County Research Grant  
 1981-1983 U.S. *Geological Survey* Research Grant  
 1980-1982 NATIONAL SCIENCE FOUNDATION Research Grant  
 1981-1983 NATIONAL SCIENCE FOUNDATION Research Grant  
 1978-1981 Department of Interior Research Grant  
 1974-1978 Department of Interior Research Grant  
 1972-1973 Council on Governments Research Grant  
 1971-1972 NATIONAL SCIENCE FOUNDATION Equipment grant  
 1966-1968 NATIONAL SCIENCE FOUNDATION Research Grant  
 1964-1966 NATIONAL SCIENCE FOUNDATION Research Grant  
 1961-1964 NATIONAL SCIENCE FOUNDATION Research Grant

### **PAPERS PRESENTED AT INTERNATIONAL MEETINGS**

*Geological Society of America*, Vancouver, B.C., 2000  
*Geological Society of America*, Toronto, Ont., 1998  
*International Quaternary Assoc. Congress*, Ottawa, Ontario, 1987  
*International Geological Correlation Program (UNESCO)*, Paris, France, 1982  
*International Quaternary Assoc. Congress*, Moscow, USSR, 1982

International Quaternary Assoc. Congress Field Conference, Leningrad, USSR, 1982  
 International Geological Correlation Program (UNESCO), Kyoto, Japan, 1981  
 International Geological Correlation Program (UNESCO), Kiel, West Germany, 1980  
 International Geological Correlation Program (UNESCO), Ostrava, Czech., 1979  
 International Quaternary Association Commission, Zurich, Switzerland, 1978  
 International Quaternary Congress, Birmingham, England, 1977  
 International Quaternary Association Commission, Reykjavik, Iceland, 1977  
 International Geological Correlation Program (UNESCO), Prague, Czech., 1977  
 International Geological Correlation Program (UNESCO), Stuttgart, Germany, 1976  
 International Quaternary Association Commission, Stockholm, Sweden, 1976  
 International Geological Correlation Program (UNESCO), Prague, Czech., 1976  
 International Geological Correlation Program (UNESCO), Bellingham, WA, 1975  
 International Union of Geodesy and Geophysics, Grenoble, France, 1975  
 International Geological Correlation Program (UNESCO), Prague, Czech., 1975  
 International Geological Correlation Program (UNESCO), Salzburg, Austria, 1974  
 International Quaternary Congress, Christchurch, New Zealand, 1973  
 International Geological Correlation Program (UNESCO), Koln, Germany, 1973  
 International Geological Congress, Montreal, Canada, 1972  
 International Quaternary Congress, Paris, France, 1969  
 Geological Society of America, Mexico City, Mexico, 1968  
 International Geological Congress, Prague, Czechoslovakia, 1968

## RESEARCH

### PUBLICATIONS

#### BOOKS

- Easterbrook, D. J., 1999 Surface processes and landforms: Prentice Hall Publishing Co., 546 p.
- Easterbrook, D. J., 1999, Interpretation of landforms from topographic maps and air photos: Prentice Hall Publishing Co., 193 p.
- Easterbrook, D. J., 1993, Surface processes and landforms: Macmillan Publishing Co., 520 p.
- Easterbrook, D. J., 1993, Interpretation of landforms from topographic maps and air photos: Western Washington University Press, 185 p.
- Easterbrook, D. J., 1982, Potential geologic natural landmarks, Cascade Range, Washington: Heritage Conservation and Recreation Service, Dept. of Interior, Wash. D. C., 277 p.
- Easterbrook, D. J., 1971, Geology and geomorphology of western Whatcom County, Washington: Western Washington State College Press, 68 p.
- Easterbrook, D. J., and Rahm, D. A., 1970, Landforms of Washington: Union Printing Co., 156 p.
- Easterbrook, D. J., 1969, Principles of Geomorphology: McGraw-Hill Book Co., 462 p.

## EOLOGIC JOURNAL PUBLICATIONS

- Kovanen, D. J., and Easterbrook, D. J., in press, Radiocarbon reservoir values for late Pleistocene marine shells in the Fraser Lowland of western north America, *Paleoceanography*.
- Kovanen, D. J., and Easterbrook, D. J., in press, Chronology of the multiple phases of the Sumas Stade in Fraser Lowland, British Columbia and Northwest Washington, *Quaternary Research*.
- Kovanen, D. J., and Easterbrook, D. J., in press, Holocene eruptive history of Mt. Baker, Washington, *Canadian Journal of Earth Sciences*.
- Thomas, P.A., Easterbrook, D.J., and Clark, P.U., 2000, Early Holocene glaciation on Mt. Baker, Washington State, USA: *Quaternary Science Reviews*, vol. 19, p.1043-1046.
- Easterbrook, D. J., and Kovanen, D. J., 1998, "Pre-Younger Dryas Resurgence of the southwestern Margin of the Cordilleran Ice Sheet, British Columbia, Canada"—*Comments: Boreas*, v. 27, p. 229-230, Oslo, Norway.
- Kovanen, D. J., and Easterbrook, D. J., 1996, Extensive readvance of Late Pleistocene (Y.D.?) Alpine Glaciers in the Nooksack River Valley, 10,000 to 12,000 years ago, following retreat of the Cordilleran Ice Sheet, North Cascades, Washington: *Friends of the Pleistocene, Pacific Coast Cell Field Trip Guidebook*, 74 p.
- Easterbrook, D. J., 1994, Chronology of Pre-late Wisconsin Pleistocene the Puget Lowland, Washington: *in* Lasmanis, R., and Cheney, E. S., *Regional Geology of Washington State*, Washington Division of Geology and Earth Resources, Bulletin 80, p. 191-206.
- Easterbrook, D. J., 1994, Stratigraphy and chronology of early to late Pleistocene glacial and interglacial sediments in the Puget Lowland, Washington: *in* Swanson, D. A., and Haugerud, R. A., *Geologic Field Trips in the Pacific Northwest*, Geological Society of America, p. 1J23-38
- Berger G. W., and Easterbrook, D. J., 1993, Thermoluminescence dating tests for lacustrine, glaciomarine, and floodplain sediments from western Washington and British Columbia: *Canadian Journal of Earth Science*, vol. 30, p. p. 1815-1828.
- Easterbrook, D. J., 1992, Advance and retreat of Cordilleran ice sheets in Washington, U.S.A.: *Geographie Physique et Quaternaire*, v. 46, no. 1, p. 51-68.
- Clague, J. J., Easterbrook, D. J., Hughes, O. L., and Mathews, J. V., 1992, The Sangamonian and Early Wisconsinan Stages in western Canada and Northwestern United States: *in* Clark, P. U., and Lea, P. D., *The last interglacial-glacial transition in North America: Geological Society of America Special Paper 270*, p. 253-268.

- Berger, G. W., Burke, R. M., Carver, G. A., and Easterbrook, D. J., 1991, Test of thermo-luminescence dating with coastal sediments from northern California: *Chemical Geology, Isotope Geoscience Section, Elsevier Science Publishers*, v. 87, p. 21-37.
- Easterbrook, D. J., Naeser, N. A., and Roland, J., and Carson, R. J., 1988, Application of paleomagnetism, fission-track dating, and tephra chronology to Lower Pleistocene sediments in the Puget Lowland, Washington: *in "Dating Quaternary Sediments," Geological Society of America Special Paper 227*, p 139-165 .
- Easterbrook, D. J., 1988, Paleomagnetism of Quaternary sediments: *in Dating Quaternary Sediments, Geological Society of America Special Paper 227*, 111-122.
- Easterbrook, D. J., 1988, Editor, *Dating Quaternary Sediments: Geological Society of America Special Paper 227*, 165 p.
- Blunt, D., Easterbrook, D. J., and Rutter, N. A., 1987, Chronology of Pleistocene sediments in the Puget Lowland, Washington: *Washington Division of Geology and Earth Resources Bulletin 77*, p. 321-353.
- Westgate, J. A., Easterbrook, D. J., Naeser, N. A., and Carson, R. J., 1987, The Lake Tapps tephra: an early Pleistocene stratigraphic marker in the Puget Lowland, Washington: *Quaternary Research*, vol. 28, p. 340-355.
- Easterbrook, D. J., 1986, Revision of early Pleistocene chronology in North America: *Soviet Academy of Sciences, Moscow, USSR (in Russian)*, 20 pages.
- Easterbrook, D. J., 1986, Stratigraphy and chronology of Quaternary deposits of the Puget Lowland and Olympic Mountains of Washington and the Cascade Mountains of Washington and Oregon: *in Quaternary Glaciations in the Northern Hemisphere*, Pergamon Press, p. 145-159.
- Easterbrook, D. J., and Boellstorff, J., 1984, Paleomagnetism and chronology of early Pleistocene tills in the central U.S.: *in Correlation of Quaternary Chronologies: Geobooks*, Norwich, United Kingdom, p. 73-90.
- Easterbrook, D. J., 1983 Remanent magnetism in glacial tills and related diamictons: *in Symposium volume, Genesis of glacial deposits*, Balkema Publ. Co., Rotterdam, Netherlands, p. 303-313.
- Easterbrook, D. J., 1982, Characteristic features of glacial sediments: *American Association of Petroleum Geologists Memoir 31*, p. 1-10.
- Easterbrook, D. J., 1982, Potential natural national landmarks in the Cascade Range, Washington, Oregon, and California: *U.S. National Park Service, Dept. of Interior*, 405p.
- Easterbrook, D. J., Briggs, N. A., Westgate, J. A., and Gorton, M. P., 1981, Age of the Salmon Springs Glaciation in Washington: *Geology*, vol. 9, p. 87-93.

- Easterbrook, D. J., and Boellstorff, J., 1981, Age and correlation of early Pleistocene glaciations based on paleomagnetic and fission track dating in North America: International Geological Correlation Program, Report. no. 6, Prague, Czech., p. 72-82.
- Easterbrook, D. J., 1979, The last glaciation of northwest Washington: Society of Economic, Petroleum geologists, and Mineralogists Symposium Volume, p. 177-189.
- Easterbrook, D. J., 1978, Paleomagnetism of glacial till: Symposium on genesis of glacial deposits, International Quaternary Assoc., Zurich, Switzerland.
- Easterbrook, D. J., 1978, Potential geologic natural landmarks of the North Pacific Border Province, Washington, Oregon, and California: Heritage Conservation and Recreation Service, Dept. of Interior, Washington D. C., 405 p.
- Easterbrook, D. J., 1976, Mt. Baker eruptions: *Geology*, vol.3, p. 679-682.
- Easterbrook, D. J., 1976, Middle and early Wisconsin chronology in the Pacific Northwest: Quaternary glaciation in the Northern Hemisphere, International Correlation Program Rept. 3, p. 90-98.
- Easterbrook, D. J., 1976, Geologic map of western Whatcom County, Washington: U.S. Geological Survey Map I-854-B.
- Easterbrook, D. J., 1976, Slope stability in western Whatcom County, Washington: U.S. Geological Survey Map I-854C.
- Easterbrook, D. J., and Othberg, K., 1976, Paleomagnetism of Pleistocene sediments in the Puget Lowland, Washington: Quaternary Glaciations in the Northern Hemisphere, International Correlation Program Rept. 3, p. 189-207.
- Easterbrook, D. J., 1976, Quaternary geology of the Pacific Northwest: *in* Quaternary Stratigraphy of North America, Dowden, Hutchinson, and Ross, Inc., Stroudsburg, PA., p. 441-462.
- Easterbrook, D. J., 1976, Engineering characteristics of geologic materials, western Whatcom County, Washington: U.S. Geological Survey Map I-854- D.
- Easterbrook, D. J., 1975, Stratigraphy and palynology of late Quaternary sediments in the Puget Lowland, Washington: Geological Society of America, Discussion and reply: vol. 87, p. 153-156.
- Easterbrook, D. J., 1975, The last glaciation: Guidebook for International Geological Correlation Project 73/I/24, Western Washington State College Press, Bellingham, Washington, 73 p.
- Hansen, B., and Easterbrook, D. J., 1974, Stratigraphy and palynology of late Quaternary sediments in the Puget Lowland, Washington: Geological Society of America, vol. 85, p. 587-602.
- Easterbrook, D. J., 1974, Comparisons of late Pleistocene glacial fluctuations: in Quaternary glaciations in the northern hemisphere, International Geological Correlation Project 73/I/24, Report no. 1, p. 96-109.

- Easterbrook, D. J., 1973, *Environmental geology of western Whatcom County*, Washington: Western Washington State College Press, 76 p.
- Easterbrook, D. J., 1973, *Percolation rates of earth material in western Whatcom County*, Washington: U. S. Geological Survey Map I-854-A.
- Easterbrook, D. J., 1971, *Geology and geomorphology of western Whatcom County*, Washington: Western Washington State College Press, 68 p.
- Easterbrook, D. J., 1969, *Pleistocene chronology of the Puget Lowland and San Juan Islands*, Washington: *Geological Society of America Bulletin*, v. 80, p. 2273-2286.
- Easterbrook, D. J., 1968, *Pleistocene stratigraphy of Island County*, Washington: Washington State Div. of Water Resources Bulletin, vol. 25, p.1-34.
- Easterbrook, D. J., Crandell, D. R., and Leopold, E., 1967, *Pre-Olympia stratigraphy and chronology in the central Puget Lowland*, Washington: *Geological Society of America Bulletin*, vol. 78, p. 13-20.
- Easterbrook, D. J., 1966, *Radiocarbon chronology of Late Pleistocene deposits in northwest Washington*: *Science*, vol. 152, p. 764-767.
- Easterbrook, D. J., 1966, *Glaciomarine environments and the Fraser Glaciation in NW Washington*: *Guidebook for First Annual Field Conference, Pacific Coast Section, Friends of the Pleistocene*, 52 p.
- Easterbrook, D. J., 1965, *Late Pleistocene glaciomarine environments of the Puget Lowland*, Washington: VII Congress International Association for Quaternary Research Abstracts, Seattle, Washington.
- Armstrong, J. E., Crandell, D. R., Easterbrook, D. J., and Noble, J.A., 1965, *Late Pleistocene stratigraphy and chronology in SW British Columbia and NW Washington*: *Geological Society of America Bulletin*, vol. 76, p. 321-330.
- Easterbrook, D. J., 1965, *Guidebook for field conference J., Pacific Northwest: VII Congress, International Association for Quaternary Research*, p. 68-80.
- Easterbrook, D. J., 1964, *Void ratios and bulk densities as means of identifying Pleistocene tills*: *Geological Society of America Bulletin*, vol. 75, p. 745- 750.
- Easterbrook, D. J., 1964, *Guidebook to geology of Whidbey Island*, Washington: *Geological Society of America Field Conference*, 10 p.
- Easterbrook, D. J., 1963, *Late Pleistocene glacial events and relative sea-level changes in the northern Puget Lowland*, Washington: *Geological Society of America Bulletin*,

## ABSTRACTS

- Weber, S. J., and Kovanen, D.J., 2000, *Evidence for beach deposits in the Deming sand at Bellingham Bay, Washington and their implications for late Pleistocene relative sea level changes*: *Geological Society of America Abstracts with Programs*, v. 32, no. 6, p. 74.

- Easterbrook, D. J., and Kovanen, D. J., 2000, Correlation of late Pleistocene glaciomarine drift in NW Washington and SW British Columbia and evidence of uplift rates: *Geological Society of America, Abstracts with Programs*, vol. 32, no. 6, p. 49.
- Kovanen, D. J., and Easterbrook, D. J., 2000, Rooted stumps in the Deming sand—confirmation of abrupt late Pleistocene relative sea level changes in NW Washington: *Geological Society of America, Abstracts with Programs*, vol. 32, no. 6, p. 49.
- Burrows, R. A., Kovanen, D. J., Easterbrook, D. J., and Clark, D. H., 2000, Timing and extent of cirque glaciation near Mts. Baker and Shuksan, North Cascade Range, WA: *Geological Society of America, Abstracts with Programs*, vol. 32, no. 6, p. 45.
- Easterbrook D. J., and Kovanen, D. J., 1999, Early Holocene glaciation of the North Cascades near Mt. Baker, Washington: Abstracts with program, *Geological Society of America, Abstracts with Program*, vol. 31, p.367.
- Burrows, R. A., Easterbrook, D. J., Clark, D. H., 1999, Alpine glacial chronology and paleoclimatic significance of cirque moraines near Mts Baker and Shuksan, North Cascade Range, Washington; possible early Holocene advance: Abstracts with program, *Geological Society of America, Abstracts with Program*, vol. 31, p. 57.
- Easterbrook D. J., and Kovanen, D. J., 1999, Early Holocene glaciation of the North Cascades, Washington: Abstracts with program, *Geological Society of America, Abstracts with Program*, vol. 31, p. 52.
- Kovanen, D. J., and Easterbrook, D. J., 1999, Holocene tephtras and lahars from Mt. Baker, Washington: Abstracts with program, *Geological Society of America, Abstracts with Program*, vol. 31, p. 71.
- Easterbrook D. J., and Kovanen, D. J., 1998, New radiocarbon evidence for the ages of two Sumas moraines of the Cordilleran Ice Sheet between 10,000 and 11,300 <sup>14</sup>C-yrs B.P.: Abstracts with program, *Geological Society of America*, vol. 30, no. 7, p. 165.
- Kovanen, D. J., and Easterbrook, D. J., 1998, 10,600-yr-old age of post-Cordilleran-Ice-Sheet alpine glaciers in the Nooksack Valley, North Cascades, WA.: Abstracts with program, *Geological Society of America, Abstracts with program, Geological Society of America*, vol. 30, no. 7, p. 165.
- Easterbrook, D. J., and Kovanen, D. J., 1997, New evidence for relative sea level fluctuations during the Everson Interstade and multiple stillstands of ice during the Sumas Stade in the Northern Puget Lowland, Washington: Abstracts with program, *Geological Society of America*.
- Kovanen, D. J., and Easterbrook, D. J., 1997, Major drainage changes of the Chilliwack and Nooksack Rivers of SW British Columbia, Canada and NW Washington: Abstracts with program, *Geological Society of America*.

- Thomas, P., and Easterbrook, D. J., 1997, Late Quaternary glacial advances on Mt. Baker, WA: Abstracts with program, Geological Society of America.
- Easterbrook, D. J., and Kovanen, D. J., 1996, Everson glaciomarine deposits in Fjords of the Nooksack River drainage, North Cascades, WA.: Abstracts with Program, Geological Society of America, vol. 28, p. 64.
- Kovanen, D. J., and Easterbrook, D. J. 1996, New evidence for late-glacial, post-Cordilleran-Ice-Sheet readvance of alpine glaciers in the North Cascades, Washington: Abstracts with Program, Geological Society of America, vol. 28, p. 83.
- Easterbrook, D. J., and Kovanen, D. J., 1996, Evidence for 45-km-long, post-Cordilleran-Ice-Sheet, alpine glaciers in the Nooksack North Fork, North Cascades, WA between 11,500 and 10,000  $^{14}\text{C}$ -yrs B.P.: Abstracts with Program, Geological Society of America, vol. 28, no. 27, p. 434.
- Kovanen, D. J., Easterbrook, D. J., Evenson, E.B., and Olsen, O., 1996, Evidence for two readvances of long, post-Cordilleran-Ice-Sheet, alpine glaciers between 12,000 and 10,000  $^{14}\text{C}$ -yrs. B. P. in the Nooksack Middle Fork, North Cascades, WA: Abstracts with Program, Geological Society of America, Annual Meeting, Denver, CO, vol. 28, no. 27, p. 434.
- Easterbrook, D. J., and Kovanen, D. J., 1996, Everson glaciomarine deposits in fiords of the Nooksack River drainage, North Cascades, Washington: Geological Society of America Abstracts, Portland, Oregon.
- Easterbrook, D. J., and Kovanen, D. J., 1996, Far-reaching mid-Holocene lahar from Mt. Baker in the Nooksack Valley of the North Cascades, Washington: : Geological Society of America Abstracts, Portland, Oregon.
- Kovanen, D. J., and Easterbrook, D. J., 1996, New evidence for late-glacial, post-Cordilleran-Ice-Sheet readvance of alpine glaciers in the north Washington: Geological Society of America Abstracts, Portland, Oregon.
- Engebretson, D. C., Easterbrook, D. J., and Kovanen, D. J., 1996, Triggering of very large, deep-seated, bedrock landslides by concentrated, shallow earthquakes in the North Cascades, Washington: Geological Society of America Abstracts, Portland, Oregon.
- Engebretson, D. C., Easterbrook, D. J., and Kovanen, D. J., 1995, Relationships of very large, deep-seated, bedrock landslides and concentrated shallow earthquakes: Geological Society of America Abstracts with Program, vol. 27, p. 37.
- Easterbrook, D. J., 1994, Evidence for abrupt late Wisconsin climatic changes during deglaciation of the Cordilleran Ice Sheet in Washington: Geological Society of America, Abstracts with Programs, vol. 26, no. 7, p. 511-512.
- Easterbrook, D. J., 1989, Origin of glaciomarine drift and synchronicity of lobes of the Cordilleran ice sheet: Geological Society of America Abstracts with Program, vol. 21, p. 75.

- Berger, G. W., and Easterbrook, D. J., 1989, Testing the accuracy of thermoluminescence dating procedures: *Geological Society of America Abstracts with Program*, vol. 21, p. 57.
- Spencer, P. K., Carson, R. L., Tabutt, K. D., and Easterbrook, D. J., 1989, Age of the Enterprise gravels, Wallowa Lake, northeastern Oregon: *Geological Society of America Abstracts with Program*, vol. 21, p. 147.
- Easterbrook, D. J., and McCarten, C. M., 1988, Causes of debris torrents in the Pacific Northwest: *Geological Society of America Abstracts with Program*, vol. 20, p. 157.
- Clague, J. J., Easterbrook, D. J., Hughes, O. L., and Mathews, J. V., 1988, Was there an ice sheet in the Canadian Cordillera during the early Wisconsinan?--Reexamination of the geological record: *Geological Society of America Abstracts with Program*, vol. 20, p. A4.
- Berger, G. W., Burke, R. M., Carver, G. A., and Easterbrook, 1988, Thermoluminescence analyses and paleomagnetic signatures—techniques for establishing age estimates of tectonically deformed marine terraces, northern California: *Geological Society of America Abstracts with Program*, vol. 20, p. A53.
- Syverson, T., Easterbrook, D. J., and McCarten, C., 1985, Cause of debris torrents in the Cascade foothills of Washington: *Geological Society of America Abstracts with Program*, p. 411.
- Easterbrook, D. J., 1985, Chronology and correlation of Pleistocene deposits in the northwestern U.S.: *Geological Society of America Abstracts with Program*, Orlando, Florida.
- Easterbrook, D. J., 1985, Pre-Wisconsin fission-track, paleomagnetic, amino acid, and tephra chronology in the Puget Lowland and Columbia Plateau: *Geological Society of America Abstracts with Program*, p. 353.
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- Easterbrook, D. J., 1983, Processes related to origin of debris torrents and debris chutes: *Geological Society of America Abstracts with Program*, Indianapolis, Indiana, p. 564-565.
- Easterbrook, D. J., 1983, Paleomagnetic correlation of glacial tills and other diamictos: *Geological Society of America Abstracts with Program*, Indianapolis, Indiana.
- Easterbrook, D. J., 1983, Paleomagnetic reversals in Pleistocene sediments of the Puget Lowland and Columbia Plateau, Washington: *Geological Society of America Abstracts with Program* Salt Lake City, Utah.
- Easterbrook, D. J., 1982, Revision of North American Pleistocene chronology based on paleomagnetic, fission-track, and amino acid dating: XI International Quaternary Congress Abstracts., Moscow, U.S.S.R.
- Easterbrook, D. J., 1982, North American glacial chronology: Leningrad Geological Institute, Leningrad, U.S.S.R.

- Easterbrook, D. J., 1982, *New chronology for the early Pleistocene of North America: International Geological Correlation Program*, UNESCO, Paris, France.
- Easterbrook, D. J., and Rutter, N., 1982, *Amino acid analyses of wood and shells in development of chronology and correlation of Pleistocene sediments in the Puget Lowland, Washington: Geological Society of America Abstracts with Program*, New Orleans, Louisiana, p. 480.
- Easterbrook, D. J., Westgate, J. A., and Briggs, N., 1981, *Tephrochronology, paleomagnetism, and amino-acid dating of pre-Vashon deposits in northwest Washington: Geological Society of America Abstracts with Program*, Hermosillo, Mexico.
- Easterbrook, D.J., 1981, *Paleomagnetic and amino acid chronology of North American and European Quaternary sediments: International Geological Correlation Program Abstracts*, Kyoto, Japan.
- Easterbrook, D. J., 1981, *Remanent magnetism of glacial till: International Quaternary Association Abstracts*, Jackson, Wyo.
- Easterbrook, D. J., and Rutter, N., 1981, *Amino acid ages of Pleistocene glacial and interglacial sediments in western Washington: Geological Society of America Abstracts with Program*, p. 444.
- Easterbrook, D. J., 1980, *Paleomagnetism of early Pleistocene tills in the midwestern U.S.: Geological Society of America Abstracts with Program*, vol. 12, p. 224.
- Easterbrook, D. J., 1980, *Fission-track and paleomagnetic chronology of the early Pleistocene: International Geological Correlation Project Abstracts*, Kiel, West Germany.
- Easterbrook, D. J., and Boellstorff, J., 1980, *Paleomagnetic chronology of "Nebraskan-Kansan" tills in the midwestern U.S.: Geological Society of America Abstracts with Program*, Atlanta, Georgia.
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