Warren D. Huff

Department of Geology University of Cincinnati Cincinnati, OH 45221

Telephone: (W) 513 556-3731 (H) 513 961-6917

Fax (W) 513 556-6931 E-mail warren.huff@uc.edu

Web http://homepages.uc.edu/~huffwd/HuffPage/huff.html

Education

A.B. (Geology) Harvard College, 1959

Ph.D. (Geology) University of Cincinnati, 1963

Work Experience

| Teaching Assistant, University of Cincinnati | 1960-1962 |
|---|--------------|
| Instructor, New York University | 1966 |
| Assistant Professor, University of Cincinnati | 1963-1969 |
| Associate Professor, University of Cincinnati | 1969-1985 |
| Visiting Professor, University of Grenoble, France | 1971-1972 |
| NAS Exchange Scientist, Czechoslovak Academy of Science | 1984 |
| Visiting Professor, University of Sheffield, England | 1985-1986 |
| Professor, University of Cincinnati | 1985-Present |

Graduate Students

20 MS, 11 PhD

Michael Trippi, Jennifer Kruger, Wayne Klusman, Edward Hawkinson, Joseph Breuer, James Alpha, Dennis Bassarab, John Petering, Robin Martin, Asuman Gunal, Maureen Law, Vishnu Ranganathan, Sokari Braide, Sally Sutton, Annette Summers, Janet Bertog, Andrine Dell, Douglas McVey, Elif Müftüoglu, Heping Sun, Yangsheng Zhang, Joan Cullen-Lollis, Kenan Cetin, Michael Scharpf, Jennifer Fry, Mark Krekeler, Funda Ozlem Toprak, Brian Nicklen, John Haynes, James Milawski, Yinal Huvaj

Professional Activities

Chairman, National Science Teachers Association sectional meeting, Cincinnati, 1967
Participant, American Geological Institute International Field Institute, Italy, 1964
Participant, National Science Foundation Field Institute, Canadian Rockies, 1967
Member, State Coordinating Committee on Earth Science, Ohio Academy of Science, 1966-1972
Member, Council on Education in the Geological Sciences, American Geological Institute, 1969-1972

Chairman, Advisory Board, The Science Teacher (NSTA) 1969-1971

Member, American Association for the Advancement of Science Writing Conference, <u>The Preparation of Secondary School Teachers of Science and Mathematics</u>, 1970-1971

National Science Foundation Faculty Fellow, 1971-1972

Chairman, National Association of Geology Teachers, regional meeting, Cincinnati, 1977

Member, National Science Foundation review panel for student-originated studies program, 1978

National Academy of Sciences exchange visitor to the Czechoslovak Academy of Science, 1980

General Chairman, Geological Society of America Annual Meeting, Cincinnati, 1981

Member, Geological Society of America *ad hoc* Committee on Long-range Planning of the Annual Meeting. 1982

Member, Council of The Clay Minerals Society, 1988-1991, 2001-2004

Secretary, The Clay Minerals Society, 2005-

Member, Editorial Board, Geotimes, American Geological Institute, 1999-2005

Member, Editorial Board, Clay Minerals, Journal of the European Clay Groups, 1998-

Associate Editor, Clays and Clay Minerals, Journal of The Clay Minerals Society, 1998-

Member, Subcommission on Ordovician Stratigraphy, IUGS Commission on Stratigraphy, 1998-2002

Member, GSA Committee on Honorary Fellows, 2001-2004

Consultant to more than 25 businesses and corporations on matters of soil and clay chemistry and mineralogy

Member, AIPEA Council for 2009-2013

Fellow, The Geological Society of America, 2013

Activities at the University of Cincinnati

(major committees only)

University level

Member, Faculty Senate, 1967-1969, 1973-1975

Member, Ombudsman Search Committee, 1969-1970

Member, Search Committee for Vice Provost for Student Affairs, 1976-1977

Member, Faculty Senate Committee on State Affiliation, 1975-1977

Member, University Senate Committee on Representations and Appointments, 1975-1977

Faculty Senate representative to the University Senate, 1975-1977

Vice Chairman, Faculty Senate, 1975-1977

Chairman, Academic Affairs Committee, Faculty Senate, 1977-1979

Member, University Research Council Fellowship Committee, 1982-1983

Chairman, Faculty Senate ad hoc Committee on Research and Instructional Equipment, 1982-1983

Member, Distinguished Dissertation Fellowship Award Committee, 1984

Member, Academic Program Review Task Force, 1991-1992

Chair, University Web Tools Study Group, 1999

Member, University ITIE Awards Committee, 1999, 2000

Chair, Ad Hoc Committee on Web Tools Development, 1999-2000

Member, Academic Technology Planning Committee, 1999-

Member, First Year Experience (FYE) Steering Committee, 2000-

Member, Electronic Classroom Committee, 2001-

Member, The Academy of Fellows for Teaching & Learning, 2007-

Member Advisory Council, Center for the Enhancement of Teaching and Learning, 2009-

Member, Fellows of the Graduate School, 2007-

College level

Member, Committee on Innovation in Student Contacts, 1970-1971

Advisor to Arts & Sciences Student Tribunal, 1975-1978

Member, Student Grievance Committee, 1976-1978

Member, Arts & Sciences College Correlation Committee, 1975-1977

Member, Curriculum Review Committee, 1980-1982

Member, Arts & Sciences Undergraduate Council, 1991-present

Member, Arts & Sciences Curriculum Committee, 1991-present

Chair, Student Grievance Committee, 1993-1994

Chair, Arts & Sciences Undergraduate Council, 1994-1995

Member, Arts & Sciences Committee on Distance Learning, 2005-

Member, A&S Decanal Search Committee, 2006-2007

Member, A&S Distribution Requirements Committee 2008-2009

Chair, A&S RPT Committee, 2009-2010

Member, A&S STEM Initiative Committee, 2009-2010

Department level

Chairman, Undergraduate Policy Committee, 1971-1974

Chairman, Graduate Policy Committee, 1976-1978

Director of Graduate Studies, 1978-1980

Member, Acting Headship Committee, 1981-1982

Chairman, Analytical Instruments Committee, 1983-1984

Member, Headship Search Committee, 1982-1984

Acting Head of Department, 1984-1985

Chairman, Sedimentology Search Committee, 1991

Chairman, Surface Processes Search Committee, 1992

Director of Undergraduate Studies, 1988-1998

Director of Alumni Affairs, 2003-

Recent Teaching Accomplishments

- 1967 Present I have been continually involved with pedagogical development both at UC and within the geological profession. See above list of Professional Activities for some specific examples.
- 1970 G.W. Barbour Awardee
- 1999 Present I have participated in the development of First Year Experience programs at UC, including Freshman Seminars, and at VP Siff's request I served as chair of the committee that selected Blackboard as our course management tool.
- January 2006 I joined an experimental podcast group of UC faculty members. On the basis of that experience I began regular podcast of introductory course lectures in the spring quarter. The practice continues as part of a new distance learning course designed to meet General Education requirements.
- WebPush[©] During 2005-2006 I worked with staff members of the Faculty Technology Resources Center to develop a Flash-based software program designed to deliver online instruction via the Internet. This program is now the centerpiece of my distance learning course.

Since 2007 I have been an active member of two campus organizations: The Academy of Fellows for Teaching and Learning and the Center for the Enhancement of Teaching and Learning.

Awards and Memberships in Professional Societies

Awards

Fenneman Fellow, University of Cincinnati, 1962-1963 National Science Foundation Summer Fellow, 1962

National Science Foundation Faculty Fellow, 1971-1972

G.B. Barbour Award for excellence in teaching and student relations, University of Cincinnati, 1970

Faculty Service Award, University of Cincinnati, 1995

Elected Member, The Academy of Fellows for Teaching and Learning (AFTL), 2007

Memberships

Geological Society of America Society for Sedimentary Geology The Clay Minerals Society Mineralogical Society of America American Geophysical Union National Association of Geology Teachers Association Internationale pour L'Etude des Argiles

Grants and Contracts

NSF: Characteristics of potassium-depleted illite and illite/montmorillonite, 1966-1967

NSF: In-service Institute for Secondary School Earth Science Teachers, 1968-1969

Exxon: Design and implementation of TIPS for computer-managed instruction, 1974-1975

URC: Volcanogenic clays in eastern Bavaria and Austria, 1978

NSF: Correlation of Middle Ordovician K-bentonites of eastern North America on the basis of major and minor element distribution, 1981-1982

NSF: Correlation of Middle Ordovician K-bentonites of eastern North America on the basis of major and minor element distribution (renewal), 1982-1983

NSF: Stratigraphy of Middle Ordovician K-bentonites in the central and southern Appalachians, 1984-1987

NSF: Correlation of K-bentonite beds in the British Ordovician and Silurian stratotypes, 1985-1986

NSF: Ordovician K-bentonite stratigraphy of the central Appalachians: Implications for regional stratigraphic and tectonic synthesis, 1989-1990

NSF: The tectonomagmatic and event-stratigraphic significance of lower Paleozoic K-bentonites in the Iapetus region of N. America and NW Europe: collaborative research: 1989-1992

NSF: Ordovician and Silurian explosive volcanism in the Iapetus region: Tectonomagmatic, tectonic, event-stratigraphic & biological implications, 1992-1995

NSF: Ordovician studies in the Argentine Precordillera, 1994-95

NSF: Ordovician studies in the Argentine Precordillera, 1995-96

- NSF: Collaborative study: A test of Ordovician Iapetus paleogeographic models using K-bentonite stratigraphy and geochemistry, 1996-1998
- URC: Stereomicroscopy and the study of volcanic ash: 1998-99
- American Colloid Co: Cretaceous bentonites of the Sharon Springs Member of the Pierre Shale: 1998-1999
- NSF: Chemical fingerprinting of ash beds in the terminal Proterozoic Nama Group of Namibia: 2000-2001
- NSF: High resolution sequence and event stratigraphy of mid Silurian strata in eastern Laurentia and Avalonia: 2005-2009
- NSF: CCL1 A Coherent Multi-disciplinary Initiative to Enhance Student Learning in STEM Courses: 2010-2013: \$249,648

Research Interests

Much of my research deals with the study of K-bentonites, which are the remains of explosively erupted volcanic ash layers. These layers are now altered largely to clay minerals although some original volcanic crystals remain. I study both types of minerals to learn about the nature of the source volcanoes, many of which are several hundreds of millions years old, as well as the natural processes by which the volcanic ash layers have been buried in the earth and altered to their present form. These studies are useful in defining stratigraphic timelines as well and gauging the size and frequency of explosive volcanism throughout Earth history. In addition to studies over much of North America my K-bentonite research has involved major projects in the UK, The Republic of Ireland, Norway, Sweden, Estonia, Russia, Brazil, Argentina, Germany, Austria, Namibia and China. In addition, I have studied the origin and sources of Quaternary lake clays in southern France.

Publications

- Huff, W.D., 1962, Mineralogy of Ordovician K-bentonites in Kentucky: Clays and Clay Minerals, v. 11, p. 200-209.
- Bassarab, D.R., and Huff, W.D., 1968, Clay mineralogy of Kope and Fairview formations (Cincinnatian) in Cincinnati area: American Association of Petroleum Geologists Bulletin, v. 52, p. 520.
- Huff, W.D., 1968, Potassium extraction from illites and K bentonites: Abstracts with Programs Geological Society of America, p. 362-363.
- —, 1968, Post-depositional alteration of clay minerals in sedimentary environments: International Geological Congress, Abstracts--Congres Geologique Internationale, Resumes, v. 23, p. 232.
- Huff, W.D., and Breuer, J.W., 1968, Mineralogy and distribution of clay sediments in Great Miami River basin (Ohio-Indiana): American Association of Petroleum Geologists Bulletin, v. 52, p. 533.
- Bassarab, D.R., and Huff, W.D., 1969, Clay mineralogy of the Kope and Fairview formations (Cincinnatian) in the Cincinnati area: Journal of Sedimentary Petrology, v. 39, p. 1014-1022.

- Huff, W.D., 1969, Potassium depletion of illite and mixed illite-montmorillonite: Special Paper Geological Society of America, p. 145.
- Rhodes, F.H.T., Felsher, M., Huff, W.D. and Stone, R.O. 1971. Undergraduate Geology: A Strategy for Design of Curricula: Council on Undergraduate Education in the Geological Sciences, Publication 8, 79 p.
- Huff, W.D., 1972, Mineralogy and sedimentation of Pleistocene lake clays, Southeastern France: Abstracts with Programs Geological Society of America, v. 4, p. 548.
- —, 1972, Morphological effects on illite as a result of potassium depletion: Clays and Clay Minerals, v. 20, p. 295-301.
- —, 1973, Pleistocene clay mineral assemblages in varved lake sediments and their relationship to regional bedrock sources, southeastern France: Program and Abstracts Annual Clay Minerals Conference, v. 10, p. 50.
- —, 1973, Relationship between parent material, clay mineralogy, and deposition of Würm II lake clays, southeastern France: Congress of the International Union for Quaternary Research, p. 158.
- —, 1974, Mineralogy and Provenance of Pleistocene Lake Clay in an Alpine Region: Geological Society of America Bulletin, v. 85, p. 1455-1460.
- —, 1975, Computer managed instruction in introductory geology courses using tips: Abstracts with Programs Geological Society of America, v. 7, p. 1124-1125.
- Huff, W.D., and Fiorito, T., 1976, Computer-managed instruction in introductory geology course using TIPS: Journal of Geological Education, v. 24, p. 111-113.
- Martin, R., Huff, W.D., and Litz, P.E., 1979, A new technique for making thin sections of clayey sediments: Journal of Sedimentary Petrology, v. 49, p. 641-643.
- Huff, W.D., 1980, Volcano modeling: Rocks and Minerals, v. 55, p. 172-173.
- —, 1981, Montmorillonite-I/S transformation in Ordovician K-bentonites: Program and Abstracts Annual Clay Minerals Conference, v. 30, p. 11.
- —, 1981, Use of chemical fingerprinting in the stratigraphic correlation of Ordovician K-bentonites: Abstracts with Programs Geological Society of America, v. 13, p. 477.
- Huff, W.D., and Türkmenoglu, A.G., 1981, Chemical characteristics and origin of Ordovician K-bentonites along the Cincinnati Arch: Clays and Clay Minerals, v. 29, p. 113-123.
- Huff, W.D., and Türkmenoglu, A.G., 1982, Chemical characteristics and origin of Ordovician K-bentonites along the Cincinnati Arch; a reply: Clays and Clay Minerals, v. 30, p. 447-448.
- Huff, W.D., 1983, Correlation of Middle Ordovician K-bentonites based on chemical

- fingerprinting: Journal of Geology, v. 91, p. 657-669.
- Huff, W.D., Frost, J.K., and Kolata, D.R., 1983, Correlation of Middle Ordovician K-bentonites in the Mississippi Valley region by chemical fingerprinting: Abstracts with Programs Geological Society of America, v. 15, p. 256.
- Huff, W.D., Hosterman, J.W., and Roen, J.B., 1983, Misuse of the term "bentonite" for ash beds of Devonian age in the Appalachian Basin discussion and reply: Geological Society of America Bulletin, v. 94, p. 681-683.
- Kolata, D.R., Frost, J.K., and Huff, W.D., 1983, Correlation of K-bentonites in the Decorah Subgroup of the Mississippi Valley by chemical fingerprinting: Annual Field Conference Society of Economic Paleontologists and Mineralogists. Great Lakes Section, v. 13, p. F1-F15.
- Lollis, J.C., and Huff, W.D., 1983, Chemical fingerprinting of K-bentonites in the lower Trenton Salona Formation of central Pennsylvania: Abstracts with Programs Geological Society of America, v. 15, p. 629.
- Hay, R.L., Huff, W.D., Kolata, D.R., and Lee, M., 1984, Age of potassium metasomatism in an Ordovician tuff of the Mississippi Valley: Abstracts with Programs Geological Society of America, v. 16, p. 533.
- Huff, W.D., Frost, J.K., Kolata, D.R., and Lollis, J.C., 1984, Stratigraphic application of trace element variability in Middle Ordovician K-bentonites: Program and Abstracts Annual Clay Minerals Conference, v. 21, p. 61.
- Kolata, D.R., Frost, J.K., and Huff, W.D., 1984, Correlation of Champlainian (Middle Ordovician) K-bentonite beds from Minnesota to Kentucky and Tennessee: Abstracts with Programs Geological Society of America, v. 16, p. 563.
- Huff, W.D., 1985, Trace element variation in Ordovician K-bentonites and its use in stratigraphic correlation: 5th meeting of the European clay groups, p. 535-539.
- Braide, S.P., and Huff, W.D., 1986, Clay mineral variation in Tertiary sediments from the eastern flank of the Niger Delta: Clay Minerals, v. 21, p. 211-224.
- Cullen-Lollis, J., and Huff, W.D., 1986, Correlation of Champlainian (Middle Ordovician) K-bentonite beds in central Pennsylvania based on chemical fingerprinting: Journal of Geology, v. 94, p. 865-874.
- Huff, W.D., Frost, J.K., and Kolata, D.R., 1986, Distribution of the Ordovician Deicke and Millbrig K-bentonite beds in eastern North America: Abstracts with Programs Geological Society of America, v. 18, p. 310.
- Kolata, D.R., Frost, J.K., and Huff, W.D., 1986, K-bentonites of the Ordovician Decorah Subgroup, upper Mississippi Valley: Correlation by chemical fingerprinting, Illinois State Geological Survey Circular 537, 30 p.

- Haynes, J.T., Hay, R.L., and Huff, W.D., 1987, Compositional variations in the Middle Ordovician Deicke (T-3) and Millbrig (T-4) K-bentonites in the Southeastern United States: Abstracts with Programs Geological Society of America, v. 19, p. 203.
- Huff, W.D., Biart, B.N.M., Blakeslee, J.H., Covington, J.M., Dunn, D.A., Haggerty, J.A., Johns, M.W., Meyers, P.A., Moullade, M.R., Muza, J.P., Ogg, J.G., Okamura, M., Sarti, M., Whalen, E., Wise, S.W., Jr., and von Rad, U., 1987, Cretaceous clay mineralogy of the continental rise off the East Coast of the United States, Site 603, Deep Sea Drilling Project Leg 93: Initial Reports of the Deep Sea Drilling Project, v. 93, p. 985-988.
- Kolata, D.R., Frost, J.K., and Huff, W.D., 1987, Chemical correlation of K-bentonites in the Middle Ordovician Decorah Subgroup, upper Mississippi Valley: Geology, v. 15, p. 208-211.
- —, 1987, The Ordovician Deicke and Millbrig K-bentonite beds; regional time lines and their application to analysis of paleoenvironments: Abstracts with Programs Geological Society of America, v. 19, p. 229.
- —, 1987, Chemical correlation of K-bentonite beds in the Middle Ordovician Decorah Subgroup, Upper Mississippi Valley: Report of Investigations Minnesota Geological Survey, v. 35, p. 52-56.
- Huff, W.D., Anderson, T.B., and Morgan, D.J., 1988, Immobile trace element chemistry of Llandovery (Silurian) K-bentonites in the United Kingdom; implications for tectonic setting: Abstracts with Programs Geological Society of America, v. 20, p. 350.
- Huff, W.D., Frost, J.K., and Kolata, D.R., 1988, Use of immobile trace elements in Ordovician K-bentonites for stratigraphic, tectonic and magmatic interpretation: Abstracts SEPM Midyear Meeting, v. 5, p. 26.
- Huff, W.D., Frost, J.K., Kolata, D.R., and Trevail, R.A., 1988, Correlation of the Upper Ordovician Deicke K-bentonite bed from the Upper Mississippi Valley to the St. Lawrence Valley, Canada: Abstracts with Programs Geological Society of America, v. 20, p. 121.
- Huff, W.D., Whiteman, J.A., and Curtis, C.D., 1988, Investigation of a K-bentonite by X-ray powder diffraction and analytical transmission electron microscopy: Clays and Clay Minerals, v. 36, p. 83-93.
- Cetin, K., and Huff, W.D., 1989, Evidence for two different layer charge components in interstratified illite/smectite from Ordovician and Silurian K-bentonites: Program and Abstracts Annual Clay Minerals Conference, v. 26, p. 21.
- Haynes, J.T., Huff, W.D., and Shelton, K.L.c., 1989, The usefulness of K-bentonites as chronostratigraphic markers in Rocklandian (Upper Ordovician) strata of the Southeastern United States: Abstracts with Programs Geological Society of America, v. 21, p. 133.
- Huff, W.D., 1989, Pleistocene varves and related sediments; Lac du Trieves, Drac Valley, southeastern France: Geologie Alpine, v. 65, p. 75-104.
- Huff, W.D., and Kolata, D.R., 1989, Correlation of K-bentonite beds by chemical fingerprinting

- using multivariate statistics, *in* Cross, T.A., ed., Quantitative Dynamic Stratigraphy: Englewood Cliffs, NJ, Prentice-Hall, p. 567-577.
- Huff, W.D., and Spears, D.A., 1989, A tonstein from the Lower Limestone Group of Arran: Scottish Journal of Geology, v. 25, p. 161-172.
- Trevail, R.A., Huff, W.D., and Kolata, D.R., 1989, Facies interpretation in Ordovician carbonates of southern Ontario using K-bentonites: AAPG Bulletin, v. 73, p. 1040.
- Haynes, J.T., and Huff, W.D., 1990, Origin and tectonic setting of Ordovician bentonites in North America: Isotopic and age constraints: Discussion and reply: Geological Society of America Bulletin, v. 102, p. 1439-1441.
- Haynes, J.T., Huff, W.D., Parrish, R.R., Patchett, P.J., Roddick, J.C., and Samson, S.D., 1990, Origin and tectonic setting of Ordovician bentonites in North America; isotopic and age constraints. discussion and reply: Geological Society of America Bulletin, v. 102, p. 1439-1441.
- Huff, W.D., Anderson, T.B., Johns, W.D.c., Odin, G.S., and Rundle, C.C., 1990, Chemical correlation and K-Ar dating of illitization of Silurian K-bentonites from the Southern Uplands-Down-Longford Terrane, British Isles; implications for deformational history: Program and Abstracts Annual Clay Minerals Conference, v. 27, p. 63.
- Huff, W.D., and Kolata, D.R., 1990, Correlation of the Ordovician Deicke and Millbrig Kbentonites between the Mississippi Valley and the southern Appalachians: American Association of Petroleum Geologists Bulletin, v. 74, p. 1736-1747.
- Huff, W.D., and Morgan, D.J., 1990, Stratigraphy, mineralogy and tectonic setting of Silurian K-bentonites in southern England and Wales, *in* Farmer, V.C., and Tardy, Y., eds., Proceedings of the 9th International Clay Conference, Volume 88: Sciences Géologiques Mémoires: Strasbourg, p. 33-42.
- Kolata, D.R., Huff, W.D., and Trevail, R.A., 1990, Correlation of the Ordovician Deicke K-bentonite bed across the Michigan Basin and southern Ontario: Abstracts with Programs Geological Society of America, v. 22, p. 37.
- Spears, D.A., and Huff, W.D., 1990, Tonsteins in the UK Coal Measures: International Sedimentological Congress, v. 13, p. 519.
- Bergström, S.M., Bauert, H., Huff, W.D., Kaljo, D., and Kolata, D.R., 1991, Ordovician K-bentonites in the Iapetus region; stratigraphic and geographic distribution and trans-Atlantic relationships: Abstracts with Programs Geological Society of America, v. 23, p. 4.
- Bergström, S.M., Huff, W.D., and Kolata, D.R., 1991, Middle Ordovician K-bentonites in Baltoscandia and North America; biostratigraphic relations and paleontological implications: Abstracts with Programs Geological Society of America, v. 23, p. 296.
- —, 1991, Geologic significance of gigantic ash falls in the Ordovician of North America and northwestern Europe: Ohio Journal of Science, v. 91, p. 34.

- Bergström, S.M., Huff, W.D., and Kolata, D.R., 1991, Giant Middle Ordovician ash falls in northwestern Europe and eastern North America and their event-stratigraphic and biologic significance: Event Markers in Earth History. Joint meeting of IGCP projects 216, 293, and 303, Calgary, Programs and Abstracts, p. p. 16.
- Cetin, K., and Huff, W.D., 1991, Characterization of interlayer charge and interstratification in illite/smectite clays from K-bentonites using alkylammonium ion exchange, X-ray diffraction and transmission electron microscopy: Program and Abstracts Annual Clay Minerals Conference, v. 28, p. 27.
- Huff, W.D., Anderson, T.B., Rundle, C.C., and Odin, G.S., 1991, Chemostratigraphy, K-Ar ages and illitization of Silurian K-bentonites from the Central Belt of the Southern Uplands-Down-Longford Terrane, British Isles: Journal of the Geological Society of London, v. 148, Part 5, p. 861-868.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1991, Geodynamic implications of Middle Ordovician ultraplinian collision margin volcanism; Laurentia and Baltica: Abstracts with Programs Geological Society of America, v. 23, p. 295-296.
- Bergström, S.M., Huff, W.D., Kaljo, D., and Kolata, D.R., 1992, Silurian K-bentonites in the Iapetus region; a preliminary event-stratigraphic and tectonomagmatic assessment: Geologiska Foereningen i Stockholm Foerhandlingar, v. 114, Part 3, p. 327-334.
- Bergström, S.M., Huff, W.D., and Kolata, D.R., 1992, Ordovician K-bentonites in eastern North America, Baltoscandia, and the British Isles; a regional review: Abstracts with Programs Geological Society of America, v. 24, p. 7.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Leslie, S.A., 1992, Distribution of marine fossils in the Millbrig "Big Bentonite" interval in the Middle Ordovician of Europe and North America; no evidence of a faunal extinction event caused by a gigantic ash fall: Abstracts with Programs Geological Society of America, v. 24, p. 197.
- Cetin, K., and Huff, W.D., 1992, Composition, structure & layer charge distribution in K-bentonite illite/smectite clays; evidence from HRTEM: Abstracts with Programs Geological Society of America, v. 24, p. 198-199.
- Ciampone, M.A., Briggs, W.D., Gerke, T.L., Huff, W.D., Maynard, J.B., McVey, D.E., and Zhang, Y., 1992, Non-systematic weathering profile in the Blue Ridge Mountains, N.C.; role of geochemical variables: Abstracts with Programs Geological Society of America, v. 24, p. 214.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1992, Dynamics of a Middle Ordovician ultraplinian volcanic eruption: Eos, Transactions, American Geophysical Union, v. 73, p. 350.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1992, Gigantic Ordovician volcanic ash fall in North America and Europe: Biological, tectonomagmatic, and event-stratigraphic significance: Geology, v. 20, p. 875-878.

- Huff, W.D., Kolata, D.R., and Bergström, S.M., 1992, Eruption characteristics of the Middle Ordovician Deicke and Millbrig K-bentonites: Geological Society of America Abstracts with Programs, v. 24, p. 199.
- Kolata, D.R., Bergström, S.M., and Huff, W.D., 1992, Distribution and event-stratigraphic significance of a Middle Ordovician K-bentonite bed in North America and Baltoscandia: Abstracts with Programs Geological Society of America, v. 24, p. 27.
- Kolata, D.R., Bergström, S.M., Huff, W.D., and Anonymous, 1992, Distribution of Ordovician K-bentonites in the Iapetus region; an overview: Geological Society of America, 1992 annual meeting, v. 24, p. 196.
- Merriman, R.J., Fortey, N.J., Huff, W.D., and Morgan, D.J., 1992, Trace element characteristics of Ordovician K-bentonites in the United Kingdom and relationships with contemporaneous silicic volcanic rocks: Abstracts with Programs Geological Society of America, v. 24, p. 198.
- Zhang, Y., and Huff, W.D., 1992, Grain size as an indicator of ash source and distribution in Middle Ordovician K-bentonites of eastern North America: Abstracts with Programs Geological Society of America, v. 24, p. 267.
- Bergström, S.M., Huff, W.D., and Kolata, D.R., 1993, Occurrence and significance of K-bentonites in the Lower Silurian of Arisaig Bay, Nova Scotia: Abstracts with Programs Geological Society of America, v. 25, p. 5.
- Bergström, S.M., Huff, W.D., and Kolata, D.R., 1993, Silurian K-bentonites in North America and northwestern Europe; a trans-Atlantic comparison: Abstracts with Programs Geological Society of America, v. 25, p. 7.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Kaljo, D., 1993, The Osmundsberg K-bentonite: a widespread volcanic ash bed in the Upper Llandoverian (Lower Silurian) of northwestern Europe: Geological Society of America Abstracts with Programs, v. 25, p. 75-76.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1993, Possible climatic impact of the Middle Ordovician Millbrig-Big Bentonite ultraplinian volcanic eruption: Abstracts with Programs Geological Society of America, v. 25, p. 25.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1993, Gigantic Ordovician volcanic ash fall in North America and Europe: biological, tectonomagmatic, and event-stratigraphic significance: Reply: Geology (Boulder), v. 21, p. 383-384.
- Huff, W.D., Merriman, R.J., Morgan, D.J., and Roberts, B., 1993, Distribution and tectonic setting of Ordovician K-bentonites in the United Kingdom: Geological Magazine, v. 130, p. 93-100.
- Krekeler, M.P.S., and Huff, W.D., 1993, Occurrence of corrensite and ordered (R3) illite/smectite (I/S) in a VLGM Middle Ordovician K-bentonite from the Hamburg Klippe, central Pennsylvania: Geological Society of America Abstracts with Programs, v. 25, p. 30.

- McVey, D.E., and Huff, W.D., 1993, Use of the Deicke and Millbrig K-bentonites to resolve Middle Ordovician stratigraphic problems in the central Appalachians: Geological Society of America Abstracts with Programs, v. 25, p. 63-64.
- —, 1993, Timing of the Blount and Martinsburg foreland basin development during the Taconic orogeny based on the Deicke and Millbrig K-bentonite marker horizons: Geological Society of America Abstracts with Programs, v. 25, p. 67.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Cingolani, C.A., 1994, Ordovician K-bentonites discovered in the Precordillera of Argentina. A preliminary comparison with K-bentonite complexes in Laurentia and Baltoscandia, Program and Abstracts, Joint meeting of IGCP Projects 376 & 319 and the 2nd Circum-Atlantic, Circum-Pacific terrane conference: Nova Scotia, p. 6.
- —, 1994, Ordovician K-bentonites in Laurentia, Baltica, and the Argentine Precordillera: implications for the SWEAT hypothesis and other interpretations of the paleogeography of the Iapetus: WOGOGOB (Working group on the Ordovician geology of Baltoscandia) 94, Bornholm, abstracts volume, p. 22.
- Kolata, D.R., Huff, W.D., Bergström, S.M., and Cingolani, C.A., 1994, Ordovician K-bentonite beds discovered in the Precordillera of Argentina: Geological Society of America Abstracts with Programs, v. 26, p. 503.
- Krekeler, M.P.S., Huff, W.D., and McVey, D.E., 1994, Regional variation in the clay mineralogy of the Middle Ordovician Millbrig K-bentonite from the Appalachians to the eastern Midcontinent; implications for thermal history: Abstracts with Programs Geological Society of America, v. 26, p. 29.
- —, 1994, Origin of chert layers associated with some Middle Ordovician K-bentonite beds from the Southern Appalachians and the eastern mid-continent: Abstracts with Programs Geological Society of America, v. 26, p. 23.
- Krekeler, M.P.S., McVey, D.E., and Huff, W.D., 1994, Origin of chert layers associated with some Middle Ordovician K-bentonite beds from the southern Appalachians and the eastern Midcontinent: Geological Society of America Abstracts with Programs, v. 26, p. 23.
- —, 1994, Regional variation in the clay mineralogy of the Middle Ordovician Millbrig K-bentonite from the Appalachians to the eastern Midcontinent; implications for thermal history: Geological Society of America, Northeastern Section, 29th annual meeting: Geological Society of America, Northeastern Section, 29th annual meeting, v. 26, p. 29.
- Rapien, M., Jones, R., Krekeler, M.P.S., McVey, D.E., and Huff, W.D., 1994, Origin of internal zonation within the Middle Ordovician Millbrig K-bentonite bed at Shakertown, Kentucky: Geological Society of America Abstracts with Programs, v. 26, p. 67.
- Yost, D.A., Huff, W.D., Bergström, S.M., and Kolata, D.R., 1994, Use of mineralogical and geochemical data for high resolution stratigraphic correlation of a Middle Ordovician K-bentonite: Geological Society of America Abstracts with Programs, v. 26, p. 81.

- Zhang, Y.-S., and Huff, W.D., 1994, Grain size characteristics of a Middle Ordovician eruption and its source area, Abstracts of the Eighth International Conference on Geochronology, Cosmochronology and Isotope Geology, Volume 1107: Berkeley, U.S. Geological Survey, p. 364.
- Bergström, S.M., Cingolani, C., Huff, W.D., and Kolata, D.R., 1995, Ordovician K-bentonites in the Precordillera of Argentina; new discoveries and their stratigraphic and paleogeographic significance: Abstracts with Programs Geological Society of America, v. 27, p. 380-381.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Bauert, H., 1995, Nomenclature, stratigraphy, chemical fingerprinting, and areal distribution of some Middle Ordovician K-bentonites in Baltoscandia: Geologiska Föreningens i Stockholm Förhandlingar (GFF), v. 117, p. 1-13.
- Cetin, K., and Huff, W.D., 1995, Layer charge of the expandable component of illite/smectite in K-bentonite as determined by alkylammonium ion exchange: Clays and Clay Minerals, v. 43, p. 150-158.
- —, 1995, Characterization of untreated and alkylammonium ion exchanged illite/smectite by high resolution transmission electron microscopy: Clays and Clay Minerals, v. 43, p. 337-345.
- Friedhoff, M.J., Goldberg, R.A., Hoffman, D.L., Huff, W.D., Maynard, J.B., and Mickler, P., 1995, The Olive Hill Clay (Pennsylvanian) of eastern Kentucky; pedogenic and volcanic influences: Abstracts with Programs Geological Society of America, v. 27, p. 176.
- Goldberg, R.A., Huff, W.D., and Maynard, J.B., 1995, Characterization of clays and the genesis of kaolinite in the aquifer and glacial till at the Fernald Superfund site in Southwest Ohio: Abstracts with Programs Geological Society of America, v. 27, p. 100.
- Huff, W.D., Bergström, S.M., Cingolani, C., Davis, D.W., Droser, M.L., Finney, S.C., and Kolata, D.R., 1995, Middle Ordovician K-bentonites discovered in the Precordillera of Argentina; geochemical and paleogeographical implications: Field Trip Guidebook Pacific Section, Society of Economic Paleontologists and Mineralogists, v. 77, p. 343-349.
- Huff, W.D., and Bergström, S.M., 1995, Castlemainian K-bentonite beds in the Ningkuo Formation of the Jiangshan Province The first Lower Ordovician K-bentonites found in China: Palaeoworld, v. 5, p. 101-105.
- Huff, W.D., Bergström, S.M., Kolata, D.R., Cingolani, C., and Davis, D.W., 1995, Middle Ordovician K-bentonites discovered in the Precordillera of Argentina: Geochemical and paleogeographical implications, in Cooper, J.D., Droser, M.L., and Finney, S.C., eds., Ordovician Odyssey: Short papers for the Seventh International Symposium on the Ordovician System, Volume Book 77, The Pacific Section Society for Sedimentary Geology, p. 343-349.
- Huff, W.D., Kolata, D.R., Bergström, S.M., and Cingolani, C., 1995, K-bentonite geochemistry and paleogeography as a means of testing the proposed justaposition of North and South America during the Ordovician: Geological Society of America Abstracts with Programs, v. 27, p. 63.

- Kolata, D.R., Bergström, S.M., and Huff, W.D., 1995, The Middle Ordovician Taconian Orogeny (Blountian tectophase); associated volcanism and uplift of the Midcontinent (U.S.A.) arches and domes: Abstracts with Programs Geological Society of America, v. 27, p. 458.
- Krekeler, M.P.S., Bergström, S.M., Cingolani, C., Droser, M.L., Finney, S.C., Huff, W.D., and Kolata, D.R., 1995, Mineralogy and grain characteristics of Middle Ordovician K-bentonites from the Precordillera of Argentina: Field Trip Guidebook Pacific Section, Society of Economic Paleontologists and Mineralogists, v. 77, p. 355-356.
- Krekeler, M.P.S., Cingolani, C., Friedhoff, M., Huff, W.D., Jones, R., and Yost, D.A., 1995, Some characteristics of Middle Ordovician K-bentonites from the Precordillera of Argentina: Abstracts with Programs Geological Society of America, v. 27, p. 66.
- Krekeler, M.P.S., Cingolani, C., Friedhoff, M., Huff, W.D., and Yost, D.A., 1995, Alteration and mineralogy of Middle Ordovician volcaniclastic rocks at Del Corral Hill, Argentina: Abstracts with Programs Geological Society of America, v. 27, p. 67.
- Krekeler, M.P.S., Cingolani, C., and Huff, W.D., 1995, Middle Ordovician K-bentonites in the Argentine Precordillera; a tool in interpreting tectonics of the southern margin of Laurentia: Abstracts with Programs Geological Society of America, v. 27, p. 458.
- Krekeler, M.P.S., Friedhoff, M., Yost, D.A., Huff, W.D., and Cingolani, C., 1995, Alteration and mineralogy of Middle Ordovician volcanilastic rocks at Del Corral Hill, Argentina: Geological Society of America Abstracts with Programs, v. 27, p. 67.
- Krekeler, M.P.S., Haynes, J.T., Huff, W.D., Jones, R., McVey, D.E., and Rapien, M., 1995, Differential distribution of feldspar minerals in Middle Ordovician K-bentonites in the eastern Mid-Continent and Central Appalachians: Abstracts with Programs Geological Society of America, v. 27, p. 62.
- Krekeler, M.P.S., Huff, W.D., Kolata, D.R., Bergström, S.M., and Cingolani, C., 1995, Mineralogy and grain characteristics of Middle Ordovician K-bentonites from the Precordillera of Argentina, *in* Cooper, J.D., Droser, M.L., and Finney, S.C., eds., Ordovician Odyssey: Short Papers for the Seventh International Symposium on the Ordovician System: Volume 77, The Pacific Section Society for Sedimentary Geology, p. 355-356.
- Krekeler, M.P.S., Jones, R., Huff, W.D., and Cingolani, C., 1995, Clay mineralogy of some Middle Ordovician K-bentonites from the Precordillera of Argentina: Geological Society of America Abstracts with Programs, v. 27, p. 67.
- Krekeler, M.P.S., McVey, D.E., Jones, R., Rapien, M., Huff, W.D., and Haynes, J.T., 1995, Differential distribution of feldspar minerals in Middle Ordovician K-bentonites in the eastern Mid-continent and central Appalachians: Geological Society of America Abstracts with Programs, v. 27, p. 62.
- McVey, D.E., and Huff, W.D., 1995, Southern and central Appalachian stratigraphy interpreted with the use of the Middle Ordovician Deicke and Millbrig K-bentonite beds, *in* Cooper, J.D., Droser, M.L., and Finney, S.C., eds., Ordovician Odyssey: Short papers for the

- Seventh International Symposium on the Ordovician System, Volume 77, The Pacific Section Society for Sedimentary Geology, p. 351-353.
- McVey, D.E., Huff, W.D., Krekeler, M.P.S., and Yost, D.A., 1995, VLGM textures and clay minerals in authigenic cherts associated with Middle Ordovician K-bentonites in the Central Appalachians: Abstracts with Programs Geological Society of America, v. 27, p. 73-74.
- Sun, H., and Huff, W.D., 1995, Tectonomagmatic setting of the Osmundsberg K-bentonite (Lower Silurian) in Northwestern Europe: International Union of Geodesy and Geophysics Abstracts Volume, XXI General Assembly, Boulder, v. Week A, p. A439.
- Zhang, Y.-S., and Huff, W.D., 1995, Grain size variation in the Millbrig K-bentonite: An investigation of Ordovician eruption dynamics using image analysis, *in* Cooper, J.D., Droser, M.L., and Finney, S.C., eds., Ordovician Odyssey: Short Papers for the Seventh International Symposium on the Ordovician System, Volume 77, The Pacific Section Society for Sedimentary Geology, p. 357-358.
- Bergström, S.M., Huff, W.D., Kolata, D.R., Krekeler, M.P.S., Cingolani, C., and Astini, R.A., 1996, Lower and Middle Ordovician K-bentonites in the Precordillera of Argentina: A progress report: XIII Congreso Geológico Argentino y II Congreso de Exploración de Hidrocarburos, v. V, p. 481-490.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Ortega, D., 1996, Early Silurian (Llandoverian) K-bentonites in the Southern and Northern Appalachians; new discoveries and their significance: Abstracts with Programs Geological Society of America, v. 28, p. 504.
- Fortey, N.J., Merriman, R.J., and Huff, W.D., 1996, Silurian and late Ordovician K-bentonites as a record of late Caledonian volcanism in the British Isles: Transactions of the Royal Society of Edinburgh: Earth Sciences, v. 86, p. 167-180.
- Friedhoff, M.J., Goldberg, R.A., Hoffman, D.L., Huff, W.D., Maynard, J.B., Mickler, P., and Triplehorn, D., 1996, Polygenetic history of the Olive Hill Clay (Pennsylvanian) in eastern Kentucky: Abstracts with Programs Geological Society of America, v. 28, p. 56.
- Huff, W.D., Bergström, S.M., Kolata, D.R., and McVey, D.E., 1996, Diagenetic alteration of volcanic tephra and formation of K-bentonite; mass balance calculations: Abstracts with Programs Geological Society of America, v. 28, p. 104.
- Huff, W.D., Kolata, D.R., Bergström, S.M., and Zhang, Y.-S., 1996, Large-magnitude Middle Ordovician volcanic ash falls in North America and Europe: dimensions, emplacement and post-emplacement characteristics: Journal of Volcanology and Geothermal Research, v. 73, p. 285-301.
- Huff, W.D., Lowell, T.V., and McVey, D.E., 1996, Incorporating Web pages into undergraduate courses; challenges and hazards: Abstracts with Programs Geological Society of America, v. 28, p. 397.
- Huff, W.D., McVey, D.E., Kolata, D.R., and Bergström, S.M., 1996, Diagenetic alteration of volcanic tephra and formation of K-bentonite; mass balance calculations: Geological Society

- of America Abstracts with Programs, v. 28, p. 104.
- Kolata, D.R., Astini, R.A., Bergström, S.M., Cingolani, C.A., and Huff, W.D., 1996, Lower and Middle Ordovician K-bentonites in the Precordillera of Argentina; new discoveries and significance: Abstracts with Programs Geological Society of America, v. 28, p. 60.
- Kolata, D.R., Huff, W.D., and Bergström, S.M., 1996, Ordovician K-bentonites of eastern North America: Geological Society of America Special Paper 313, p. 1-84.
- Krekeler, M.P.S., Cetin, K., Grover, J.E., and Huff, W.D., 1996, Hydrothermal experiments on the Middle Ordovician Millbrig K-bentonite; preliminary results at 250 degrees -400 degrees C and 1Kbar pressure: Abstracts with Programs Geological Society of America, v. 28, p. 73-74.
- Krekeler, M.P.S., Prokopenko, M., Huff, W.D., Bergström, S.M., Kolata, D.R., and Cingolani, C., 1996, High-resolution stratigraphic correlation of Ordovician K-bentonites in the Argentine Precordillera based on mineralogical, geochemical & paleontological evidence: Geological Society of America, Abstracts with Programs, v. 28, p. 183.
- Maynard, J.B., Chocyk-Jaminski, M., Gaines, R.R., Huff, W.D., Krekeler, M.P., Prokopenko, M., and Summers, A.M., 1996, Bentonites in the Late Permian (Tatarian) Irati Formation of Brazil; geochemistry and potential for stratigraphic correlation: Abstracts with Programs Geological Society of America, v. 28, p. 280.
- McVey, D.E., and Huff, W.D., 1996, K-bentonite formation by alteration of rhyolitic glass: Eos, Transactions, American Geophysical Union, v. 77, p. 280.
- McVey, D.E., Huff, W.D., Krekeler, M.P.S., and Triplehorn, D.M., 1996, Characteristics of quartz grains in some Middle Ordovician K-bentonite beds from three different geographic regions: Abstracts with Programs Geological Society of America, v. 28, p. 80.
- Prokopenko, M., Bergström, S.M., Cingolani, C., Gaines, R., Huff, W.D., Kolata, D.R., and Krekeler, M.P.S., 1996, Microfossils in Middle Ordovician K-bentonites from the Precordillera of Argentina: Abstracts with Programs Geological Society of America, v. 28, p. 295.
- Shepherd, A.D., Fenster, S., and Huff, W.D., 1996, Mineralogical and chemical characteristics of the Deicke, Millbrig and other Middle Ordovician K-bentonites from Big Ridge, Etowah Co., Alabama: Abstracts with Programs Geological Society of America, v. 28, p. 98-99.
- Summers Engel, A., Badescu, A., Huff, W., Lascu, C., and Sarbu, S., 1996, Sediment studies from Movile Cave, South Dobrogea, Romania: Abstracts with Programs Geological Society of America, v. 28, p. 281.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Melchin, M.J., 1997, Occurrence and significance of Silurian K-bentonite beds at Arisaig, Nova Scotia, Eastern Canada: Canadian Journal of Earth Sciences, v. 34, p. 1630-1643.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Ortega, D., 1997, Early Silurian (Llandoverian)

- volcanism in the Iapetus east of Laurentia; evidence from K-bentonites in the Appalachians: Abstracts with Programs Geological Society of America, v. 29, p. 31.
- Bergström, S.M., Huff, W.D., Kolata, D.R., Yost, D.A., and Hart, C., 1997, A unique Middle Ordovician K-bentonite bed succession at Röstånga, S. Sweden: GFF, v. 119, p. 231-244.
- Cingolani, C.A., Huff, W.D., Bergström, S.M., and Kolata, D.R., 1997, Bentonitas potásicas Ordovícicas en la Precordillera de San Juan y su significación tectomagmática: Revista de la Asociación Argentina, v. 52, p. 339-354.
- Engle, A.S., Lascu, C., Badescu, A., Sarbu, S., Sasowsky, I., and Huff, W., 1997, A study of cave sediment from Movile Cave, southern Dobrogea, Romania, 12th International Congress of Speleology, Volume 1: La Chaux-de-Fonds, Switzerland, Swiss Speleological Society, p. 25-28.
- Huff, W.D., 1997, Silurian K-bentonites of Podolia, Ukraine: The 11th International Clay Conference Program with Abstracts, p. 38.
- Huff, W.D., Astini, R.A., Bergström, S.M., Cingolani, C., and Kolata, D.R., 1997, The Ordovician-Silurian evolution of the Iapetus Ocean; paleogeographic indications from K-bentonite bed distribution patterns: Abstracts with Programs Geological Society of America, v. 29, p. 281.
- Huff, W.D., Bergström, S.M., Cingolani, C., Gerke, T., Kolata, D.R., Krekeler, M.P.S., and Prokopenko, M.G., 1997, Geochemical and mineralogical variations in Ordovician K-bentonites from the Argentine Precordillera; explosive volcanism at the Iapetus margin: Abstracts with Programs Geological Society of America, v. 29, p. 210-211.
- Huff, W. D., Kolata, D. R., and Bergström, S. M., 1997, The Ordovician Deicke, Millbrig, and Kinnekulle K-bentonites: volume and mass balance calculations: Abstracts volume, Volcanic activity and the environment, IAVCEI, Puerto Vallarta, p. 151.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1997, Middle Ordovician K-bentonites of eastern North America; regional geologic implications: Abstracts with Programs Geological Society of America, v. 29, p. 54.
- Huff, W.D., Bergström, S.M., Kolata, D.R., Cingolani, C., and Astini, R.A., 1997, The Ordovician-Silurian evolution of the Iapetus Ocean: Paleogeographic implications from K-bentonite distribution patterns: Geological Society of America Abstracts with Programs, v. 29, p. 281.
- Huff, W.D., Davis, D.W., Bergström, S.M., Krekeler, M.P.S., Kolata, D.R., and Cingolani, C., 1997, A biostratigraphically well-constrained K-bentonite U-Pb zircon age of the lowermost Darriwilian Stage (Middle Ordovician) from the Argentine Precordillera: Episodes, v. 20, p. 29-33.
- Huff, W.D., Morgan, D.J., and Rundle, C.C., 1997, Silurian K-bentonites of the Welsh Borderlands: Geochemistry, mineralogy and K-Ar ages of illitization: Nottingham, 25 p., British Geological Survey, Technical Report, WG/96/45.

- Kolata, D.R., Bergström, S.M., and Huff, W.D., 1997, Age, origin and regional significance of the Middle Ordovician Black River-Trenton unconformity in the North American Midcontinent: Abstracts with Programs Geological Society of America, v. 29, p. 27.
- Prokopenko, M., Krekeler, M.P.S., Huff, W.D., Bergström, S.M., Kolata, D.R., Cingolani, C., and Lehnert, O.T.H., 1997, Ordovician K-bentonites in the Argentine Precordillera: origin, composition, diagenesis, and paleoenvironmental implications: Program with Abstracts, The 11th International Clay Conference, p. p. 60.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Rabano, I.e., 1998, Silurian K-bentonites in North America and Europe: Proceedings of the Sixth international graptolite conference of the GWG (IPA) and the SW Iberia field meeting 1998 of the International Subcommission on Silurian Stratigraphy (ICS-IUGS), p. 54-56.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Stephens, M.B., 1998, Early Silurian (Llandoverian) K-bentonites discovered in the Southern Appalachian thrust belt, Eastern USA; stratigraphy, geochemistry, and tectonomagmatic and paleogeographic implications: GFF, v. 120, p. 149-158.
- Bergström, S.M., Huff, W.D., and Kolata, D.R., 1998, The Lower Silurian Thorn Hill K-bentonite complex in the Southern and Central Appalachians; I, Occurrence, age, and paleogeographic implications: Abstracts with Programs Geological Society of America, v. 30, p. 6.
- Bergström, S.M., Huff, W.D., and Kolata, D.R., 1998, The Lower Silurian Osmundsberg Kbentonite. Part I: Stratigraphic position, distribution, and palaeogeographic significance: Geological Magazine, v. 135, p. 1-13.
- —, 1998, Silurian K-bentonites in North America and Europe, *in* Gutiérrez-Marco, J.C., and Rabano, I., eds., Proceedings 6th International Graptolite Conference & 1998 Field Meeting, IUGS Subcommission on Silurian Stratigraphy, Temas Geologico-Mineros ITGE, v. 23, p. 54-56.
- Huff, W.D., 1998, Individual effort, collective achievement; how are colleges and universities reacting to the growing use of information technology (IT)?: Abstracts with Programs Geological Society of America, v. 30, p. 347.
- —, 1998, Using Internet resources in an introductory geology course: Computers & Geosciences, v. 24, p. 689-692.
- Huff, W.D., Bergström, S.M., Kolata, D.R., and Muftuoglu, E., 1998, The Ordovician Millbrig and Kinnekulle K-bentonites; are they equivalent?: Abstracts with Programs Geological Society of America, v. 30, p. 191.
- Huff, W.D., Bergström, S.M., Cingolani, C., Kolata, D.R., and Prokopenko, M., 1998, Tectonomagmatic origin of some Middle Ordovician K-bentonites in the Argentine Precordillera: Eos, Transactions, American Geophysical Union, v. 79, p. 359.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1998, The Lower Silurian Thorn Hill K-bentonite complex in the Southern and Central Appalachians; 2, Mineralogy, geochemistry, and

- magmatic setting: Abstracts with Programs Geological Society of America, v. 30, p. 24.
- Huff, W.D., Bergström, S.M., Kolata, D.R., Cingolani, C., and Astini, R.A., 1998, Ordovician K-bentonites in the Argentine Precordillera: relations to Gondwana margin evolution, *in* Pankhurst, R.J., and Rapela, C.W., eds., The Proto-Andean Margin of Gondwana, Volume 142: London, Geological Society, London, Special Publications, p. 107-126.
- Huff, W.D., Bergström, S.M., Kolata, D.R., and Sun, H., 1998, The Lower Silurian Osmundsberg K-bentonite; Part II, Mineralogy, geochemistry, chemostratigraphy and tectonomagmatic significance: Geological Magazine, v. 135, p. 15-26.
- Kolata, D.R., Bergström, S.M., and Huff, W.D., 1998, The Middle Ordovician Hagan K-bentonite complex; a key to understanding the age, origin and regional significance of the Black River-Trenton unconformity: Abstracts with Programs Geological Society of America, v. 30, p. 29.
- —, 1998, Carbonate starvation events in the Illinois Basin during the Middle Ordovician: Abstracts with Programs Geological Society of America, v. 30, p. 316.
- —, 1998, Nature and regional significance of unconformities associated with the Middle Ordovician Hagan K-bentonite complex in the North American Midcontinent: Geological Society of America Bulletin, v. 110, p. 723-739.
- Kolata, D.R., Huff, W.D., and Bergström, S.M., 1998, Nature and regional significance of unconformities associated with the Middle Ordovician Hagan K-bentonite complex in the North American midcontinent: Geological Society of America Bulletin, v. 110, p. 723-739.
- Krekeler, M.P.S., Bergström, S.M., Cingolani, C., Huff, W.D., and Kolata, D.R., 1998, Petrology and volcanology of Middle Ordovician K-bentonites from Cerro Viejo, San Juan Province, Argentina and paleogeographic implications for the Argentine Precordillera: Abstracts with Programs Geological Society of America, v. 30, p. 29.
- Muftuoglu, E.B., Combs, G., Fry, J., Huff, W.D., Maynard, J.B., and Turer, D., 1998, Ordovician marine kaolinitic bands in Argentina and the Illinois Basin; tonsteins?: Abstracts with Programs Geological Society of America, v. 30, p. 63.
- Gitipour, S., Bowers, M.T., Huff, W. and Bodocsi, A., 1998, The Efficiency of Modified Bentonite Clays for Removal of Aromatic Organics from Oily Liquid Wastes: Spill Science & Technology, Vol. 4, No. 3, p. 155-164.
- Bergström, S.M., Huff, W.D., Koren', T., Larsson, K., Ahlberg, P., and Kolata, D.R., 1999, The 1997 core drilling through Ordovician and Silurian strata at Röstånga, S. Sweden: Preliminary stratigraphic assessment and regional comparison: GFF, v. 121, p. 127-135.
- Bertog, J.L., and Huff, W.D., 1999, Primary and authigenic minerals in bentonites of the Late Cretaceous Sharon Springs Member of the Pierre Shale: Abstracts with Programs Geological Society of America, v. 31, p. 4.
- —, 1999, Biotite geochemistry of the bentonites in the Sharon Springs Member of the Pierre Shale

- (Campanian, Late Cretaceous); their use in magmatic interpretation and stratigraphic correlation: Abstracts with Programs Geological Society of America, v. 31, p. 233.
- Huff, W.D., 1999, Institutional response to the use of instructional technology: Abstracts with Programs Geological Society of America, v. 31, p. 22.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1999, Mineral and chemical characteristics of Ordovician k-bentonites reveal their magmatic and tectonic origins: Abstracts with Programs Geological Society of America, v. 31, p. 22.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 1999, Silurian K-bentonites of the Dnestr basin, Podolia, Ukraine, provide evidence of Rheic margin subduction: Abstracts with Programs Geological Society of America, v. 31, p. 233.
- Huff, W.D., Bergström, S.M., Kolata, D.R., and Muftuoglu, E., 1999, K-bentonite bed preservation and its event stratigraphic significance: Acta Universitatis Carolinae. Geologica, v. 43, p. 491-493.
- Kolata, D.R., Bergström, S.M., and Huff, W.D., 1999, Diachronous interruptions of platform carbonate deposition during the Middle Ordovician (Chatfieldian) of the U.S. Midcontinent: Abstracts with Programs Geological Society of America, v. 31, p. 28.
- Pålsson, C., Bergström, S.M., Huff, W.D., Larsson, K., Ahlberg, P., and Kolata, D.R., 1999, Ordovician stratigraphy of the Röstånga 1 drill-core, Scania, southern Sweden: Acta Universitatis Carolinae Geologica, v. 43, p. 59-60.
- Bertog, J.L., and Huff, W.D., 2000, High resolution correlation of the lower Pierre Shale of South Dakota to the Sharon Springs Member of the Pierre Shale in western Kansas: Abstracts with Programs Geological Society of America, v. 32, p. 225.
- —, 2000, Recognition of a small-scale sequence within the distal sediments of the Claggett Cycle (Cretaceous; Campanian) in the northern United States Western Interior: Abstracts with Programs Geological Society of America, v. 32, p. 2.
- Cingolani, C.A., Bergström, S.M., Huff, W.D., and Kolata, D.R., 2000, Comparison of Ordovician K-bentonites in Laurentia, Baltica, Avalonia, and western Gondwana; stratigraphical, geochemical, and paleogeographic implications: International Geological Congress, Abstracts = Congres Geologique International, Resumes, v. 31, p. unpaginated.
- Huff, W.D., 2000, Colleges and universities; survival in the information age: Computers & Geosciences, v. 26, p. 635-640.
- Huff, W.D., Astini, R.A., Bergström, S.M., Cingolani, C., and Kolata, D.R., 2000, Ordovician explosive volcanism in the Argentine Precordillera; where were the volcanoes?: Abstracts with Programs Geological Society of America, v. 32, p. 18.
- Huff, W.D., Bergström, S.M., Cingolani, C., and Kolata, D.R., 2000, Ordovician K-bentonites in the Argentine Precordillera serve as useful tools for paleogeographic and paleotectonic reconstruction: Abstracts with Programs Geological Society of America, v. 32, p. 155.

- Huff, W.D., Bergström, S.M., and Kolata, D.R., 2000, Silurian K-bentonites of the Dnestr Basin, Podolia, Ukraine: Journal of the Geological Society, London, v. 157, p. 493-504.
- Kolata, D.R., and Huff, W.D., 2000, The Ordovician Sebree Trough; oceanic passage to the Midcontinent U. S: Abstracts with Programs Geological Society of America, v. 32, p. 145.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Saltzman, M.R., 2001, The Ordovician (Chatfieldian) Guttenberg carbon isotope excursion; 2, Significance for clarifying Baltoscandic and Trans-Atlantic biostratigraphic relations and the equivalence of the North American Millbrig and Baltoscandic Kinnekulle k-bentonites: Abstracts with Programs Geological Society of America, v. 33, p. 41.
- Bergström, S.M., Huff, W.D., Kolata, D.R., and Saltzman, M.R., 2001, The Guttenberg (Chatfieldian, Ordovician) (super 13) C excursion (GICE); significance for North American and Trans-Atlantic chronostratigraphic correlations and for assessment of the age relations between the North American Millbrig and the Baltoscandic Kinnekulle K-bentonites: Abstracts with Programs Geological Society of America, v. 33, p. 77-78.
- Kolata, D.R., Bergström, S.M., and Huff, W.D., 2001, Impact of the Sebree Trough on Middle and Late Ordovician paleoceanography of the Midcontinent USA: Abstracts with Programs Geological Society of America, v. 33, p. 213.
- Kolata, D.R., Huff, W.D., and Bergström, S.M., 2001, The Ordovician Sebree Trough: an oceanic passage to the Midcontinent United States: Geological Society of America Bulletin, v. 113, p. 1067-1078.
- Min, K., Renne, P.R., and Huff, W.D., 2001, ⁴⁰Ar/³⁹Ar dating of Ordovician K-bentonites in Laurentia and Baltoscandia: Earth and Planetary Science Letters, v. 185, p. 121-134.
- Saltzman, M.R., Bergström, S.M., Huff, W.D., and Kolata, D.R., 2001, The Ordovician (Chatfieldian) Guttenberg carbon isotope excursion; 1, New data from the eastern North American Midcontinent and Baltoscandia: Abstracts with Programs Geological Society of America, v. 33, p. 41.
- Applegate, P., Glover, K., Huff, W.D., King, L., Lowell, T.V., Nicklen, B.L., Sikorski, J., and Toprak, F.O., 2002, Chemical and mineralogical analysis of a Sangamon soil exposure, southwestern Ohio: Abstracts with Programs Geological Society of America, v. 34, p. 276.
- Huff, W., Bergström, S.M., and Kolata, D.R., 2002, Multiple ash accumulation events preserved in individual lower Paleozoic K-bentonites; stratigraphic implications: Abstracts with Programs Geological Society of America, v. 34, p. 135.
- Huff, W.D., Bergström, S.M., and Kolata, D.R., 2002, Clays and palaeovolcanism; K-bentonites and tectonic reconstruction: Abstracts of the General Meeting of the International Mineralogical Association, v. 18, p. 163.
- —, 2002, The event stratigraphic and tectonomagmatic application of lower Paleozoic K-bentonites: Abstracts with Programs Geological Society of America, v. 34, p. 101.

- Huff, W.D., and Lamberson, M.N., 2002, John C. Butler; the virtual geoscience professor: Abstracts with Programs Geological Society of America, v. 34, p. 298.
- Krekeler, M.P.S., and Huff, W.D., 2002, Middle Ordovician K-bentonites in the Argentine Precordillera; a review: Abstracts with Programs Geological Society of America, v. 34, p. 101.
- Manzo, D.J., Bergström, S.M., Huff, W.D., and Kolata, D.R., 2002, New data on the age and distribution of the Early Silurian (Llandoverian) Thorn Hill K-bentonite complex in the Southern Appalachians: Abstracts with Programs Geological Society of America, v. 34, p. 26.
- Pellenard, P., Deconinck, J.-F., Fortwengler, D., Hantzpergue, P., Huff, W.D., Marchand, D., and Thierry, J., 2002, Les bentonites oxfordiennes de bassin subalpin; implications stratigraphiques et geodynamiques Oxfordian bentonites in the subalpine basin; stratigraphic and geodynamic implications: Documents des Laboratoires de Geologie, Lyon, v. 156, p. 182-183.
- Toprak, F.O., and Huff, W.D., 2002, The Lower Silurian Osmundsberg K-bentonite; potential for high-resolution chemostratigraphic correlation: Abstracts of the General Meeting of the International Mineralogical Association, v. 18, p. 169-170.
- Davidson, M.M., Bullard, R.G., Davis, C., Davis, T., DeSantis, M.K., Hamilton, R., Huff, W.D., Londono, A.C., Merk, B., and Wysong, E., 2003, Clay mineral development on terrestrially deposited tephras: Abstracts with Programs Geological Society of America, v. 35, p. 320.
- Histon, K., Klein, P., Schönlaub, H.P., and Huff, W.D., 2003, Ordovician And Silurian K-Bentonites from the Carnic Alps (Austria): Geological Society of America Abstracts with Programs, v. 35, p. 174.
- Pellenard, P., Deconinck, J.-P., Huff, W.D., Thierry, J., Marchand, D., Fortwengler, D., and Trouille, A., 2003, Characterization and correlation of Upper Jurassic (Oxfordian) bentonite deposits in the Paris Basin and the Subalpine Basin, France: Sedimentology, v. 50, p. 1035-1060.
- Saltzman, M.R., Bergström, S.M., Huff, W.D., and Kolata, D.R., 2003, Conodont and graptolite biostratigraphy and the Ordovician (Early Chatfieldian, Middle Caradocian) d¹³C excursion in North America and Baltoscandia: implications for the interpretation of the relations between the Millbrig and Kinnekulle K-bentonites, *in* Albanesi, G.L., Beresi, M.S., and Peralta, S.H., eds., Ordovician from the Andes: Proceedings of the 9th International Symposium on the Ordovician System, INSUGEO: Serie Correlacion Geologica v. 17, p. 137-142.
- Huff, W.D., Kolata, D.R. and Bergstrom, S.M., 2003, Ordovician K-Bentonite Beds: How Much Rock Mass Did It Take To Produce The Volcanic Ash? In Euroclay 2003, Modena, June 22-26, 10th Conference of the European Clay Groups Association, abstracts volume, p. 102.
- Brockman, T.L., Barrow, J.R., Bonilla, A., DeSantis, M.K., Huff, W.D., Ponnaboyina, H.-P., and

- Reuter, C.J., 2004, Mineralogical and compositional variation of glauconite: Abstracts with Programs Geological Society of America, v. 36, p. 225.
- Huff, W.D., Müftüoglu, E., Bergström, S.M., and Kolata, D.R., 2004, Resolving questions of consanguinity between the late Ordovician Deicke, Millbrig and Kinnekulle K-bentonites in North America and Baltoscandia: Geological Society of America Abstracts with Programs, v. 36, p. 246.
- Su, W.-B., He, L.-Q., Baum, G.R., Huff, W.D., and Li, Z.-M., 2004, K-bentonites near the Ordovician-Silurian boundary in South China: contributing factors to the terminal Ordovician multiple-sphere crises?, Abstracts Volume, 32nd International Geological Congress: Florence, Italy, p. 989.
- Bergström, S.M., Huff, W.D., Saltzman, M.R., Kolata, D.R. and Leslie, S.A., 2004, The greatest volcanic ash falls in the Phanerozoic: Trans-Atlantic relations of the Ordovician Millbrig and Kinnekulle K-bentonites: The Sedimentary Record, v. 2, No. 4, p. 4-8.
- Huff, W.D., 2005, Explosive volcanism and its contribution to mudrock genesis: Abstracts with Programs Geological Society of America, v. 37, p. 74.
- Huff, W.D., Histon, K., Klein, P., and Schoenlaub, H.P., 2005, Paleozoic k-bentonites from the Carnic Alps (Austria): Program and Abstracts Annual Meeting of the Clay Minerals Society, v. 42, p. 56.
- Leslie, S.A., Bergström, S.M., and Huff, W.D., 2005, Volcanic ash beds discovered in the Upper Bromide Formation and Womble Shale (Ordovician) in Oklahoma: The westernmost occurrences of the Millbrig and Deicke K-bentonites?: Geological Society of America Abstracts with Programs, v. 38, p. 67.
- Marker, P.G., and Huff, W.D., 2005, What is a K-bentonite?: Abstracts with Programs Geological Society of America, v. 37, p. 143.
- Saglam, Z.J., Huff, W.D., and Kilinc, A., 2005, The origin of chert at K-bentonite-limestone contacts: a preliminary report: Program and Abstracts Annual Meeting of the Clay Minerals Society, v. 42, p. 94.
- Saylor, B.Z., Poling, J.M., and Huff, W.D., 2005, Stratigraphic and chemical correlation of volcanic ash beds in the terminal Proterozoic Nama Group: Geological Magazine, v. 142, p. 1-20.
- Toprak, F.O., and Huff, W.D., 2005, Constraining the potential respiratory health hazard of clay sized particles from large volcanic eruptions: Program and Abstracts Annual Meeting of the Clay Minerals Society, v. 42, p. 105.
- Huff, W.D., 2005, Ordovician K-bentonites: *In*: Ludvigson, G.A. and Bunker, B.J. (Eds.) Facets of the Ordovician geology of the Upper Mississippi Valley region: Iowa Geological Survey Guidebook Ser. No. 24, Guidebook for the 35th Annual Field Conference of the Great Lakes Section, Society for Sedimentary Geology (SEPM), September 23-25, 2005, p. 50-53.

- Huff, W.D., Müftüoglu, E., Bergström, S.M. and Kolata, D.R., 2005, Biotite as a discriminator between the Late Ordovician Deicke, Millbrig, and Kinnekulle K-bentonites: *In*: Ludvigson, G.A. and Bunker, B.J. (Eds.) Facets of the Ordovician geology of the Upper Mississippi Valley region: Iowa Geological Survey Guidebook Ser. No. 24, Guidebook for the 35th Annual Field Conference of the Great Lakes Section, Society for Sedimentary Geology (SEPM), September 23-25, 2005, p. 62-64.
- Leslie, S.A., Bergström, S.M., and Huff, W.D., 2006, Volcanic ash beds discovered in the upper Bromide Formation and Womble Shale (Ordovician) in Oklahoma; the westernmost occurrences of the Millbrig and Deicke K-bentonites?: Abstracts with Programs Geological Society of America, v. 38, p. 31.
- Milawski, J.E., Michaels, J., Dendramis N., McFaddin, J., Redder, M., Huff, W.D. and Lowell, T.V., 2006, Sedimentary processes associated with deglaciation near Sioux Pond Lookout, northwest Ontario, Abstracts with Programs Geological Society of American, v. 38, No. 7, p. 70
- Huff, W.D., 2006, Volcanism and its Contribution to Mudrock Genesis: Turkish Journal of Earth Sciences, V. 15, p. 111-122.
- Su Wen-Bo, Li Zhi-ming, Shi Xiao-ying, Zhou Hong-rui, Huang Si-ji, Liu Xiao-ming, Chen Xiao-yu, Zhang, Ji-en, Yang Hong-mei, Jia Liu-jing, Huff, W.D., and Ettensohn, F.R., 2006, K-bentonites and black shales from the Wufeng-Longmaxi formations (Early Paleozoic, South China) and Xiamaling formation (Early Neoproterozoic, North China) implications for tectonic processes during two important transitions: Earth Science Frontiers, v. 13, No. 6, p. 82-95 (in Chinese with English abstract).
- Williams, L.B., Srodon, J., Huff, W.D., and Hervig, R.L., 2007, Volatile light element distributions in Baltic basin bentonites: A potential connection to hydrocarbon sources: Abstracts volume, 44th Annual Meeting of the Clay Minerals Society, Santa Fe, p. 169.
- Huff, W.D., Toprak, F.Ö., Bergström, S.M. and Mundil, R., 2007, The Lower Silurian (Llandovery) Osmundsberg K-bentonite in Baltoscandia and the British Isles: Age and correlation: Abstracts volume, 44th Annual Meeting of the Clay Minerals Society, Santa Fe, p. 100.
- Nicklen, B.L., Bell, G.L. Jr. and Huff, W.D., 2007, Ancient ash beds in the type area of the Middle Permian, Guadalupe Mountains National Park, west Texas, USA: Geological Society of America Abstracts with Programs, v. 39 (6), p. 148.
- Phansalkar, N., Burns, D., Hauber, J., Huff, W., McFaddin, J., Minges, G., Mosbaugh, E., Musselman, J., Nash, D., and Nicklen, B., 2007, Mineral and chemical characteristics of some Quaternary clays and their relation to standard engineering properties: Geological Society of America Abstracts with Programs, v. 39 (6), p. 136.
- Huff, W.D. 2007, Podcasts and WebPush: Teaching an Online Course in Geology. Abstracts volume, Ohio Digital Commons for Education 2007 Conference, Columbus, p. 17.
- Bertog, J., Huff, W.D. and Martin, J.E., 2007, Geochemical and mineralogical recognition of the bentonites in the lower Pierre Shale Group and their use in regional stratigraphic correlation:

- In: J.E. Martin and D.C. Parris (Eds.) The Geology and Paleontology of the Late Cretaceous Marine Deposits of the Dakotas, Geological Society of America Special Paper 427, p. 23-50.
- Su, Wen-Bo, Li, Zhi-Ming, Ettensohn, F.R., Johnson, M.E., Huff, W.D., Wang, W., Ma, C., Li, L., Zhang, L., And Zhao, H-J., 2007, Distribution of black shale in the Wufeng-Longmaxi formations (Ordovician-Silurian), South China:Major controlling factors and implications: Earth Science-Journal of China University of Geosciences, v. 32(6), p. 819-827 (in Chinese with English abstract).
- Su Wen-bo, Li Zhi-ming, Frank R. Ettensohn, Markes E. Johnson, Warren D. Huff, Wang Wei, Ma Chao, Li Lu, Zhang Lei, and Zhao Hui-jing, 2007, Tectonic and eustatic control on the distribution of black-shale source beds in the Wufeng and Longmaxi formations (Ordovician-Silurian), South China: Frontier of Earth Science in China, v. 1(4), p. 470-481.
- Goldman, D., Leslie, S.A., Nõlvak, J., Young, S., Bergström, S.M. and Huff, W.D., 2007, The Global Stratotype Section and Point (GSSP) for the base of the Katian Stage of the Upper Ordovician Series at Black Knob Ridge, Southeastern Oklahoma, USA: Episodes, v. 30(4), p. 258-270.
- Histon, K., Klein, P., Schönlaub, H.P., and Huff, W.D., 2007, Lower Palaeozoic K-Bentonites from the Carnic Alps, Austria: Austrian Journal of Earth Sciences, v. 100, p. 26-42.
- Huff, W.D., 2008, Ordovician K-bentonites: Issues in interpreting and correlating ancient tephras: Quaternary International, v. 178, p. 276-287.
- Bergström, S. M., Toprak, F. Ö., Huff, W. D. and Mundil, R., 2008, Implications of a new, biostratigraphically well-controlled radio-isotopic age for the lower Telychian Stage of the Llandovery Series (Lower Silurian, Sweden): Episodes, v. 31 (3), p. 309-314.
- Rompicharla, K., Novita, D.I., Chen, P., Boolchand, P., Micoulaut, M. and Huff, W., 2008, Abrupt boundaries of intermediate phases and space filling in oxide glasses: Journal of Physics: Condensed Matter, v. 20, p. 1-5.
- Su Wenbo, Shihong Zhang, Huff W.D., Huaikun Li, Ettensohn F.R., Xiaoyu Chen, Hongmei Yang, Yigui Han, Biao Song, Santosh M., 2008, SHRIMP U–Pb ages of Kbentonite beds in the Xiamaling Formation: Implications for revised subdivision of the Meso- to Neoproterozoic history of the North China Craton: Gondwana Research, v. 14, p. 543–553.
- Leslie, S.A., Bergström, S.M. and Huff, W.D., 2008, Ordovician K-bentonites discovered in Oklahoma: Oklahoma Geology Notes, v. 68, no. 1 & 2, p. 4-14.
- Su, Wenbo, Huff, Warren D., Ettensohn, Frank R., Liu, Xiaoming, Zhang, Ji'en, Li, Zhiming, 2009, K-bentonite, black-shale and flysch successions at the Ordovician-Silurian transition, South China: Possible sedimentary responses to the accretion of Cathaysia to the Yangtze Block and its implications for the evolution of Gondwana: Gondwana Research, v. 15, p. 111-130.

- Potter, Paul E. Maynard, J. Barry and Huff, Warren D., 2009, Steps in the history of mudstone investigations A timeline, 1556- through 2007: Earth Sciences History, v. 28, no. 1, p. 84-107.
- Inanli, F.Ö. and Huff, W.D., 2009, Quartz crystal size distribution of the Ordovician Millbrig K-bentonite: Journal of Volcanology and Geothermal Research, v. 184, p. 285-291.
- Christidis, G.E. and Huff, W.D., 2009, Bentonites Over Time: Geological Significance And Important Characteristics: Abstracts volume, 46th Annual Meeting of The Clay Minerals Society, Billings, Montana, p. 63.
- Christidis, G.E. and Huff, W.D., 2009, Geological aspects and genesis of bentonites: Elements, v. 5, p. 93-98.
- Inanli, F.Ö., Huff, W.D., 2009, Crystal Growth History Of Quartz In The Ordovician Millbrig K-Bentonite: Abstracts volume, 46th Annual Meeting of The Clay Minerals Society, Billings, Montana, p. 100.
- Inanli, F.O., Huff, W.D., 2009, Quartz Crystal Size Distribution Of The Ordovician Millbrig K-Bentonite: Abstracts volume, 14th International Clay Conference, Castellaneta Marina, Italy, p. 116.
- Huff, W.D., Potter, P.E. and Maynard, J.B., 2009, Clays and Mudstones Since 1556: Plenary lecture delivered at the 14th International Clay Conference, Castellaneta Marina, Italy, Abstracts volume, p. 43.
- Inanli, F.Ö., Huff, W.D., and Bergström, S.M., 2009, The Lower Silurian (Llandovery) Osmundsberg K-Bentonite In Baltoscandia and the British Isles: Chemical fingerprinting and regional correlation: GFF, v. 131, p. 269-279.
- Środoń, J., Clauer, N., Huff, W., Dudek, T. and Banaś, M., 2009, K-Ar dating of the Lower Palaeozoic K-bentonites from the Baltic Basin and the Baltic Shield: implications for the role of temperature and time in the illitization of smectite, Clay Minerals, v. 44, p. 361–387.
- Huff, W.D., Bergström, S.M. and Kolata, D.R., 2010, Ordovician explosive volcanism: In: Finney, S.C. and Berry, W. (Eds.) Earth system during the Ordovician Period: Geological Society of America Special Paper 466, p. 13-28.
- Bergström, S.M., Schmitz, B., Saltzman, M.R., and Huff, W.D., 2010, The Upper Ordovician Guttenberg d¹³C excursion (GICE) in North America and Baltoscandia: Occurrence, chronostratigraphic significance and paleoenvironmental relationships: In: Finney, S.C. and Berry, W. (Eds.) Earth system during the Ordovician Period: Geological Society of America Special Paper 466, p. 37-67.
- Su, Wenbo, Li, Huaikun, Huff, W.D., Ettensohn, F.R., Zhang, Shihong, Zhou, Hongying & Wan, YuSheng, 2010, SHRIMP U-Pb dating for a K-bentonite bed in the Tieling Formation, North China, Chinese Science Bulletin, v. 55 No.29, p. 3312–3323.

- Dronov, A.V., Huff, W.D., Kanygin, A.V. and Gonta, T.V., 2011, K-Bentonites in the Upper Ordovician of the Siberian Platform: In: J.C. Gutiérrez-Marco, I. Rábano and D. García-Bellido (eds.), Ordovician of the World, Cuadernos del Museo Geominero, Instituto Geológico y Minero de España, Madrid, v. 14, p. 135-141.
- Haynes, J.T., Huff, W.D. and Melson, W.G., 2011, Major Ordovician Tephras Generated By Caldera-Forming Explosive Volcanism On Continental Crust: Evidence From Biotite Compositions: In: J.C. Gutiérrez-Marco, I. Rábano and D. García-Bellido (eds.), Ordovician of the World, Cuadernos del Museo Geominero, Instituto Geológico y Minero de España, Madrid, v. 14, p. 229-235.
- Tankersley K.B., Scarborough, V.L., Dunning, N., Huff, W., Maynard, B. and Gerke, T.L., 2011, Evidence for volcanic ash fall in the Maya Lowlands from a reservoir at Tikal, Guatemala: Journal of Archaeological Science, vol. 38, p. 2925-2938.
- Wise, J.L., Jones, M.L., Maynard, J.B., and Huff, W., 2011, The Unique Lahars From The Same Tectonic Source: Geochemical And Petrological Discriminators. Geological Society of America Abstracts with Programs, vol. 43, No. 5, p. 103.
- Bose, N.R., Cola, E.C., Culver, E., Huff, W.D., Krekeler, E.M., Longbottom, T.L., Maynard, J.B., Schneider, A.G., Sigward, D.E., and Young, S.A., 2011, Ohio's Miami And Erie Canal: A Sediment Record Of Anthropogenic And Climatic Change. Geological Society of America Abstracts with Programs, vol. 43, No. 5, p. 423.
- Jones, M.L., Maynard, J.B., Huff, W. and Gunasekera, K., 2011, Mossbauer Study Of Magnetite As Part Of A Corrosion Scale Found Within A Drinking Water Distribution System. Geological Society of America Abstracts with Programs, vol. 43, No. 5, p. 586.
- Lehnert, O., Meinhold, G., Bergström, S.M., Calner, M., Ebbestad, J., Egenhoff, S., Frisk, Å., Hannah, J.L., Högström, A., Huff, W.D., Juhlin C., Maletz J., Stein H.J., Sturkell E. and Vandenbroucke, T.A., 2012, New Ordovician-Silurian Drill Cores From The Siljan Impact Structure In Central Sweden An Integral Part Of The Swedish Deep Drilling Program, GFF, vol. 134, pp. 87–98.
- Huff, W.D. and Owen, L.A., 2012, Volcanic landforms and hazards. In: Shroder, J. (Editor in Chief), Owen, L.A. (Ed.), Treatise on Geomorphology. Academic Press, San Diego, CA, vol. 5.
- Williams, L.B., Hervig, R.L., Środoń, J., Huff, W.D., Clauer, N., 2012, Organic maturity and hydrocarbon migration recorded by nitrogen, boron and lithium trace elements and Isotopes in authigenic illite from the Baltic Basin. Abstracts volume, 49th Annual Meeting of The Clay Minerals Society, Golden, Colorado, p. 72.
- Bal Akkoca, D., Kürüm, S. and Huff, W.D. (In press), Geochemistry of volcanogenic clayey marine sediments from the Hazar-Maden Basin, Mastar Mountain, Elazig Area, Eastern Turkey. Geochemical Journal.

Williams, L.B., Środoń, J., Huff, W. D., Clauer, N. and Hervig, R.L., 2013, Light element distributions (N, B, Li) in Baltic Basin bentonites record organic sources: Geochimica et Cosmochimica Acta v. 120 p. 582–599