

CURRICULUM VITAE
FRANK ROBERT ETTENSOHN

OFFICE

Department of Earth & Environmental Sciences
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MILITARY SERVICE

CPT., U.S.A.R. (Corps of Engineers), 1970–1977 (active duty, 1970–1971), Ret.

EDUCATION

Ph.D., University of Illinois at Urbana-Champaign, 1975

Dissertation: *Stratigraphic and Paleoenvironmental Aspects of Upper Mississippian Rocks (Newman Group), East-Central Kentucky* (Adviser: D.B. Blake)

M.S., University of Cincinnati, 1970

Thesis: *Pre-Illinoian Glacial Lake Clays of the Cincinnati Region* (Adviser: R.H. Durrell)

B.S. in Geology (High Honors), University of Cincinnati, 1969

APPOINTMENTS

Editor in Chief, Journal of the Kentucky Academy of Science, 2021–

Visiting Professor, Chengdu University of Technology, Chengdu, China, May, 2015

Embassy Science Fellow, U.S. Department of State, Ukraine, 2014

Senior Petroleum Geologist, Energy Programs, Bureau of Energy Resources, U.S. Department of State, Jefferson Science Fellow, 2013–2014

Director, University of Kentucky Honors Program, 2008–2012

Fulbright Lecturer/Researcher, Tribhuvan University, Kirtipur, Nepal, Feb.–Aug. 2006

Visiting Professor, Escuela Superior Politecnica del Litoral (ESPOL), Guayaquil, Ecuador, Dec., 2005–Jan., 2006

Visiting Professor, China University of Geosciences, Beijing, May–Aug., 2005; June, 2006; Dec., 2008–Jan., 2009; May–July, 2010; June–July, 2012; May, 2015; Mar., 2018; June, 2019; Dec., 2019–Jan., 2020.

Math and Science Education Program Faculty, U.K. College of Education, 1999–present

Chairman, Department of Geological Sciences, University of Kentucky, 1997–2005

Professor of Geological Sciences, University of Kentucky, 1987–present
Fulbright Lecturer/Researcher, Novosibirsk State University, Novosibirsk, R.F.S.S.R.,
Soviet Union, Feb.–June 1989
Acting Chairman, Department of Geological Sciences, University of Kentucky, 1985–86
Associate Professor of Geology, University of Kentucky, 1981–87
Field-Camp Director, University of Kentucky Geology Field Camp, Crested Butte,
Colorado, 1977–81, 1984–85, 1992–93, 1995, 1997–98, 2001, 2009, 2011, 2013, 2015,
2017, 2019
Assistant Professor of Geology, University of Kentucky, 1975–81
Graduate Teaching Assistant, University of Illinois, 1971–75
High-School Math Teacher, Greenhills-Forest Park City School District, Cincinnati,
Ohio, 1971
Combat Engineer Platoon Leader, Ft. Belvoir, Virginia, 1970–1971
Part-time Teaching Assistant, University of Cincinnati, Cincinnati, Ohio, 1970

TEACHING

Sedimentary and General Geology; courses taught at various times include:

Stratigraphy (undergraduate/graduate, U.S. and China)
Geology of Gas Shales (graduate, China)
Sedimentary Petrology (undergraduate/graduate)
Advanced Stratigraphy (graduate)
Carbonate Petrography (graduate, U.S. and China)
Freshman Discovery Seminar (Dinosaurs & Disasters; The Kentucky-Bahama
Connection: undergraduate)
Honors (World Food Issues III; Living within Limits)
Dinosaurs and Disasters (undergraduate)
Field Geology and Summer Field Camp (undergraduate)
Geology for Elementary Teachers (undergraduate)
Mankind's Place in the Universe (undergraduate)
Landforms (undergraduate)
Sedimentary Geology (undergraduate, U.S. and Nepal)
Historical Geology (undergraduate)
Introductory Geology (undergraduate, U.S. and China)
Introductory Geology Laboratory (undergraduate)

Seminar in Geological Sciences (undergraduate and graduate)
Global Tectonics (graduate, Nepal)
Micropaleontology (graduate)
Paleoecology (graduate)
Paleoecology Seminar and Bahamas Field Trip (graduate)
Seminar on Structure and Tectonics (graduate)
Invertebrate Paleobiology and Evolution (Paleontology) (undergraduate/graduate)
Ecology (Arts and Sciences Minicollge: Modern Studies Curriculum, undergraduate)
Natural Science II (Arts and Sciences Minicollge: Modern Studies Curriculum, undergraduate)
Topics in Structure and Tectonics: Integrating Sedimentary Petrography and Isotope Geochemistry with Evidence from the Field and Literature to Attack a Geologic Problem (graduate)
Topics in Tectonics and Stratigraphy: Clastic Sedimentary Petrology as a Tool in Developing Tectonic Context (graduate)

UNIVERSITY AND PROFESSIONAL ACTIVITIES

Amer. Institute of Professional Geol. Certified Professional Geologist CPG-11978, 2019–present
Kentucky Academy of Science, Vice President, 2018; President-elect, 2019; President, 2020; Past-president, 2021.
Science Advisory Committee, Living Arts & Science Center, 2013–present
Geological Society of Kentucky, President, 2016; Past President, 2017; President-elect, 2020; President, 2021.
DoS/NAS Jefferson Science Fellowship Review Panel, 2015–2017
Phi Kappa Phi, President, U.K. Chapter, 2015–2017
Cralle Foundation/Joan Cralle Day Fellowship Faculty Review Committee, 2013
North American Commission on Stratigraphic Nomenclature (G.S.A. rep.), 2012–2015
U. K. International Advisory Council, 2009–2012
Kentucky Section, AIPG, Vice President, 2009; President Elect, 2010; President, 2011; Past President, 2012
Editorial Board, *Kaleidoscope*, 2008–present
Kentucky Academy of Science, Geology Section, Section Secretary, 2007, 2014; Section Chair, 2008, 2015; Vice President, 2018; President-Elect, 2019; President, 2020
Academic Area Advisory Committee for the Physical and Engineering Sciences, 2007–

2009, 2017-2020

Senate Hearing Panel on Privilege and Tenure, 2007–2010

College of Education, Dept. of Curriculum & Instruction Faculty Search Committee, 2007–2008

Council for the International Exchange of Scholars, Specialist (Geology) Peer Review Committee, 2007– 2010

A&S Social Sciences Advisory Committee, Fall, 2006

Journal-Journeys Program, 2006–2007

U.K. Honors Program, 2005–2013; Director, 2008-2012

U. K. AMSTEMM Program Advisory Board, 2005–present

Graduate Council, University of Kentucky, 2004–2005

Appalachian Math-Science Partnership (AMSP) Science Advisory Council, 2003–2007

Kentucky NSF EPSCoR, Research Enhancement Grant Review Panel, 2003–2006, 2013–2014

Posters-at-the-Capitol Mentor, Frankfort, KY, 2002–2003, 2006–2007

Fayette County Math, Science, and Technology Center Research Program Mentor, 2002–2003

U.K. College of Arts & Sciences General Curriculum Committee, 2002–2003

Joint Chairman, Joint Annual Meeting, North-Central and Southeastern Sections, Geological Society of America, Lexington, KY, 2001–2002

Chairman, Field Trip Committee, Joint Annual Meeting, North-Central and Southeastern Sections, Geological Society of America, Lexington, KY, 2001–2002

Educational Testing Service Validation/Standard-Setting Panel in Earth and Space Sciences, 2000

Kentucky NCUR Advisory Board, 1999–2001

Lexington Area Science Education Reform (LASER) Summer Science Program, 1999

Chair, Review Committee for the Kentucky Geological Survey, 1999

Invited Session Chair, International Symposium on Deltas, Cairo, Egypt, 1999

The President's Initiative on Undergraduate Education, 1998–1999

UK Task Force on Mathematics, Science, and Technology Education, 1998–1999

KET Professional Development Seminars in Earth Science, 1998–2002

Committee on Research and Policy, Kentucky Water Resources Research Institute, 1998–2001

Arboretum Advisory Board, 1997–1999

Standards-based Pre-service Elementary Science Education Project, 1996

College of Arts & Sciences Area A Curriculum Committee, 1995–1997

Academic Area Advisory Committee for the Physical and Engineering Sciences, 1994–1997

Technical editor, *Journal of Paleontology*, 1994–1997

Science Education Initiative Committee, Undergraduate Studies, University of Kentucky, 1994–1997

Council for the International Exchange of Scholars, Geology Discipline Committee, 1993–1996 (Chairman, 1994–1996)

Scientific Advisor, Kentucky Paleontological Society, 1993–present

Registered Professional Geologist #0318 in Kentucky, 1993–present

Arts & Sciences – U.S.P. Pilot Study Project (Modern Studies Curriculum), 1992–1997

Board of Directors, Institute for Mining and Minerals Research, 1992–1994

Director of Undergraduate Studies, Department of Geological Sciences, 1992–1997

Member, Eastern Oil Shale Symposium Technical Advisory Committee, 1992–1995

College of Arts and Sciences Area Committee in Math and Sciences, 1991–1994

Director of Graduate Studies, Department of Geological Sciences, 1991–1992

Vice President and Board of Directors, Kentucky State Museum of Natural History, 1991–present

Ad Hoc Member, Lexington Campus Research Advisory Committee, 1991

Appalachian Explorers Program: 1991, 1994

Member, Organizing Committee, International Symposium on Black Shale Basins and Related Mineral Deposits (IUGS-IGCP Project 254), 1991

Established and ran a short course on black shales for geologists from Mobile Oil Co., Summer 1991

Dept. of Earth & Environmental Sciences, Geology Graduate Studies Committee, 1977–present ; Geology Faculty Secretary, 1981–1982; Geology course-scheduling coordinator, 1983–1987; Personnel & Budget Committee, 1986–89, 1993–4, 1997–2005, 2007–08; Awards Committee (Chairman), 1989–2005; Curriculum Committee, 1989–1990, 2018–2021

Library Liaison, 1989–2015

Committee to Evaluate and Review School of Biological Sciences, College of Arts and Sciences, 1989–1990

Committee on Earth Science Education in Kentucky, 1987–1989

University Committee to evaluate bond-issue grants, 1987

Committee to evaluate Academic Advising and Student Records Offices, College of Arts and Sciences (subcommittee chairman), 1986–1987

Invited to attend G.S.A. Penrose Conferences, 1977, 1986

PEW Foundation Board (Faculty Scholars), 1985–1996

University Undergraduate Council, 1985–1987

Tenure and promotion review – Wayne State University; College of William and Mary; SUNY at Fredonia; University of Kansas; University of West Virginia; University of Mississippi; Quaid-I-Azam University, Pakistan; University of Wah, Pakistan; Hashemite University, Jordan; Yarmouk University, Jordan

Acting Chairman, Aug., 1985–Jan., 1986

University representative to Appalachian Basin Industrial Associates, 1983–1991

Invited colloquium speaker – Houston Geological Society, Pennsylvania Association of Petroleum Geologists, Kentucky Geological Society, Ft. Worth Geological Society, Univ. of Oklahoma, Univ. of Tennessee, Ohio State University, Morehead State University, Eastern Kentucky Univ., Appalachian State, Tulane, Indiana University, Univ. of Illinois, Univ. of Cincinnati, V.P.I., Univ. of West Virginia, Transylvania University, University of Kentucky, Washington Geological Society, Kentucky Paleontological Society, Indiana Geological Survey, U.S. Geological Survey, U.S. State Department, National Academy of Sciences, China University of Geosciences, Chengdu Institute of Technology, SINOPEC, Oklahoma State University, Oklahoma City Geological Society: various times since 1982

Graduate Faculty, 1983–present

Governor's Scholars Advisory Committee, 1982

Grant/Scholarship proposal review in stratigraphy and paleontology, biotic surveys and inventories, surficial processes, and systematic biology for – National Academy of Sciences, N.S.F., U.S.G.S., Petroleum Research Fund, U.S. Civilian Research Development Foundation, National Geographic Society, Hubert Humphrey Fellowship, National Environmental and Resources Council (United Kingdom), Kentucky-NSF EPSCoR, DoS/NAS Jefferson Science Fellowship Review Panel, Swiss Excellence Scholarship for Foreign Scholars, and the Croatian National Science Foundation: various times since 1981

Bahamas Field Trip, 1979–present

Session convener at Geological Society of America regional and national meetings, various times since 1979

Consultant, environmental geology and black-shale geology, limestones, petroleum geology, mortars and building stone, 1979–1980, 2001–2005, 2014–2015

Text-book reviews in general geology, historical geology, field geology and paleontology for Freeman, Burgess, Wiley, Allen and Unwin, and West publishing companies, various times since 1977

Thesis and dissertation advisor (35 M.S., 12 Ph.D.), 1976–present

Faculty Advisor, Sigma Gamma Epsilon, 1976–present

Associate Member, Graduate Faculty, 1976–1982; Full Member, 1983–present

Field trip leader for IX-ICC and national and regional A.A.P.G., G.S.A., Kentucky Section, A.I.P.G. and Kentucky Soc. of Prof. Geologists meetings, 1976, 1979, 1981, 1984, 1992, 2002, 2004, 2007, 2009, 2010, 2011, 2012, 2013

Director, Elementary Geology Lab, 1976–1977, 1991–1992

Undergraduate advising, 1975–2005

Review journal articles for – *A.A.P.G. Bulletin*; *Geological Journal*; *Geosphere*; *Journal of Sedimentary Petrology*; *Southeastern Geology*; A.G.U. Antarctic Research Series; *Journal of Paleontology*; *Journal of Geology*; *Geology*; *Sedimentary Geology*; *Paleobiology*; *G.S.A. Bulletin*; G.S.A. Special Papers; *New York State Museum Bulletin*; *Ohio Journal of Science*; S.E.P.M. *Contributions in Sedimentology and Paleontology*; *Tectonophysics*; *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*; *Palaios*; *Bulletins of American Paleontology*; *Journal of Sedimentary Research*; Canadian Society of Petroleum Geology *Memoirs*; *Sedimentary Basins of the World Series*; American Association of Petroleum Geologists *Memoirs*; *American Journal of Science*; *Carbonates and Evaporites*; *Ore Geology Reviews*; *Applied Geochemistry*; *Arabian Journal of Geosciences*; *Marine and Petroleum Geology*; *International Journal of Mining Science and Technology*; *Journal of the Kentucky Academy of Sciences*; *ACS Earth and Space Chemistry*; and *Journal of Geodynamics*: various times since 1975

Geology Undergraduate Studies Committee, 1975–1977, 1989–present

Coordinator, Annual Sedimentation Seminar, 1975–1976

PROFESSIONAL AFFILIATIONS

AAAS (Fellow)

European Geosciences Union

Geological Society of Washington

American Association of Petroleum Geologists (AAPG)

American Geophysical Union (AGU)

Amer. Institute of Professional Geologists (AIPG) (Vice President, Kentucky Section, 2009; President-Elect, 2010; President, 2011); CPG, 2019

American Geological Institute (AGI)

Geological Society of America (Fellow)

Geological Society of Kentucky (formerly Kentucky Society of Professional Geologists); (Eastern Sect.: Treasurer, 1977–78; Vice-President, 1978–79; President, 1984–85) President-elect, 2015–2016; President, 2016–2017; President-elect, 2020.

International Association of Sedimentologists (IAS)

International Palaeontological Association

Kentucky Academy of Science, Vice President, 2018, pres. Elect, 2019 (Geol. Section: Secretary, 1978–80, 2006–2007, 2014; President, 1979–80, 2007–08, 2015)

Palaeontological Association

Paleontological Research Institution (PRI)

Paleontological Society (Pres., Southeastern Section and paleo Council, 1983–1984)

Sigma Gamma Epsilon (Tarr Award, 1969; Advisor, Chi Chapter, 1975–present)

Fulbright Association

National Association of Geology Teachers

National Earth Science Teachers Association

Phi Beta Kappa

Phi Kappa Phi (Univ. of KY Chapter: Membership Chair, 2009; Scholarship Com., 2010–12, Chair, 2011–12; President elect, 2013–14; President, 2015–16)

ACADEMIC HONORS, AWARDS, GRANTS

\$124,590 – Norwegian Petroleum Directorate, The Paleozoic Barents Sea Project: When the Arctic meets the Bluegrass, 5/2020–12/2022

A.I.P.G. Ben H. Parker Memorial Distinguished Service Medal, 2019

A.A.P.G. Grover E. Murray Distinguished Educator Award, 2018

Albert Nelson Marquis Lifetime Achievement Award, 2018

A.A.A.S. Fellow, 2015–2016

\$5000 – Rubicon Geological Consulting Grant to complete and publish a black-shale core-logging manual for Kentucky, 2015

Kentucky Geologist of the Year (Kentucky Geological Society), 2013–2014

Embassy Science Fellow, U.S. Department of State, Kiev, Ukraine, 2014

Jefferson Science Fellowship, U.S. Dept. of State, 2013–2014

College of Arts & Sciences Distinguished Professor, 2014

\$16,900 – Women and Philanthropy Scholarships for Honors students' travel abroad, 2013

Service Award, Kentucky Society of Professional Geologists, 2011

Presidential Award, Amer. Institute of Professional Geologists, Kentucky Section, 2011

\$21,000 – Women and Philanthropy Scholarships for Honors students' travel abroad, 2011

Superlative Award, Distinguished University Scientist, Kentucky Academy of Science, 2010

Lifetime Achievement Award, Amer. Institute of Prof. Geologists, Kentucky Section, 2009

Educator of the Year Award, Eastern Section, A.A.P.G., 2008

Invited Keynote Speaker for topical session T61, Aspects of the tectonic setting and structural history of shale basins that lead to unconventional reservoir rock, at 2008 G.S.A. Annual Meeting, Houston, TX

A.I. Levorsen Best Paper Award, 2007, A.A.P.G. Eastern Section Meeting, Lexington, KY.

A.I. Levorsen Best Paper Award, 2006, A.A.P.G. Eastern Section Meeting, Buffalo, NY.

\$35,740 - **Ettensohn, F.R.**, agreement through NSF Appalachian Math-Science Partnership (AMSP) for salary and salary savings to help develop and implement summer institutes and college training courses in the earth sciences for elementary and high school teachers in the Appalachian region, 9/1/2003 – 8/30/2007.

\$2,368,748 - Brion, G., **Ettensohn, F.R.**, and Fryar, A.E., Kentucky Environmental Research and Education Consortium (KEREC): University of Kentucky Environmental Research and Training Laboratories (ERTL): NSF/EPSCoR, 3/1/2002 – 2/28/2005.

\$1800 - **Ettensohn, F.R.**, Undergraduate Investigation of Early Cretaceous Dinosaur Trackways in Sattler, Texas: Heritage Museum of the Texas Hill Country, 6/1/2002– 8/30/2003.

\$51,929 - **Ettensohn, F.R.**, Krupa, J., and Stevens, J.T., Understanding Scientific Process through Modeling Past and present Causes in the Earth, Life and Environmental Sciences for Middle- and High-School Teachers, Central Kentucky: Kentucky Council on Postsecondary Education, 1/1/01– 6/30/02.

\$59,986 - **Ettensohn, F.R.**, Krupa, J., and Stevens, J.T., A Kentucky-Wide Approach to Middle School Professional Development in the Sciences, Central Kentucky: Kentucky Council on Postsecondary Education, 1/1/99 – 6/30/00.

\$53,814 - **Ettensohn, F.R.**, Troland, T., and Stevens, J.T., Teacher Professional Development in the Earth and Space Sciences for Core-Content Assessment in High School Science, Central Kentucky: Kentucky Council on Postsecondary Education, 1/1/98 – 6/30/99.

Who's Who of Emerging Leaders in America; Who's Who in America, 1992-present

\$15,000 grant from the U.S. Bureau of Mines - Feasibility Study for Producing a Photographic Core-Logging Manual for the Devonian-Mississippian Oil and Gas Shales of Kentucky and Nearby Areas, 1990–1991

\$1500 grant from the Mable Pew Myrin Trust, U.K. Appalachian Studies Program - Distribution and Significance of the Portwood Member of the New Albany Shale, 1989–1990

Fulbright Lectureship, Soviet Union, 1989; Nepal, 2006

\$3,963 REU Supplement from the National Science Foundation - The Tectonic Significance of a Devonian Sedimentary Breccia in a Cratonic Black-Shale Sequence (New Albany Shale), Central Kentucky, 1988

\$1,500 Summer Teaching Improvement Grant, University of Kentucky, 1988

\$1600 grant from Lake-Ronel Oil Co., Texas - Characterization and Paleoenvironmental Interpretation of the Louisville Limestone, West-Central Kentucky, 1987 – 1988

\$82,569 - **Ettensohn, F.R.**, Use of Interbasinal Relationships in the Devonian-Mississippian Black-Shale Sequence to Decipher the History of the Acadian Orogeny:

NSF – 6/1986-5/1989.

\$29,313, Appalachian Basin Industrial Associates in research assistantships, 1983–1991

Fellow, Geological Society of America, 1982–present

Who's Who in the South and Southeast, 1982–present

American Men and Women of Science, 1982–present

\$200 Grant for Educational Improvement (Univ. of Kentucky Mini-grant), 1977–1978

\$343,472 grant from Department of Energy - Stratigraphic and paleoenvironmental analysis of the Upper Devonian-Lower Mississippian black shales of Eastern Kentucky, 1976-1980

\$1,000, Penrose Bequest Research Grant - Paleoenvironmental analysis of Mississippian carbonates in east-central Kentucky, 1974

Sigma Xi, 1974

Research Grant from Shell Oil Company, 1973

Phi Kappa Phi (Graduate Honorary; U.K. Charter member), 1973-present

\$1,200, Penrose Bequest Research Grant - Paleoenvironmental analysis of Mississippian carbonates in east-central Kentucky, 1973

\$500 Sigma-Xi grant-in-aid-Paleoenvironmental analysis of Mississippian carbonates in east-central Kentucky, 1973

University of Illinois Fellow, 1971–1974

Fenneman Fellow, University of Cincinnati, 1969–1970

University of Cincinnati Scholarship, 1969–1970

Phi Beta Kappa, 1969

Sigma Gamma Epsilon (Geology Honorary), 1969

W.A. Tarr Award for outstanding student in geology, University of Cincinnati, 1969

University of Illinois Summer Field Camp Scholarship, 1968

Awards from Bucher Fund in Geology, University of Cincinnati, 1966–1968

Wurlitzer Foundation Fellow, University of Cincinnati, 1965–1969

McMicken Honorary Scholarship, University of Cincinnati, 1965–1966

CONSULTING

Subsurface carbonate systems and characterization, carbonate quarry location, petrography of mortars and building stones for conservationists, porosity of carbonate building stones, core and geophysical log characterization, weathering phenomena in building stone and bricks, reservoir characterization.

PUBLICATIONS: PAPERS, GUIDEBOOKS, MAPS, REVIEWS, and CHARTS

*Refereed; (coauthor *italics*: former or present student collaborators and presenters)

- 1974** ***Ettensohn, F.R.**, 1974, The pre-Illinoian lake clays of the Cincinnati region: Ohio Journal of Science, v. 74(4), p. 214-226.
- 1975** ***Ettensohn, F.R.**, 1975, The autecology of *Agassizocrinus lobatus*: Journal of Paleontology, v. 49 (6), p. 1044-1061.
- 1976** ***Ettensohn, F.R.**, 1976, New Mastodon finds from southwestern Ohio: Ohio Journal of Science, v. 76 (2), p. 71-72.
- 1977** **Ettensohn, F.R.**, 1977, Synsedimentary tectonic activity in the upper Newman Limestone and Pennington Formation, *in* Dever and others, Kentucky Geological Society Guidebook, Annual Fall Field Conference, p. 18-29.
- Ettensohn, F.R.**, Fulton, L.P., and Kepferle, R.C., 1977, Use of the scintillometer and gamma-ray logs for correlation from the subsurface to the surface in black shale, *in* Schott and others, Proceedings, First Eastern Gas Shales Symposium, D.O.E., Morgantown, W.VA.: MERC/SP-77/5, p. 678-690.
- 1978** *Kepferle, R.C., **Ettensohn, F.R.**, and Wilson, E.N., 1978, Preliminary stratigraphic cross section showing radioactive zones in the Devonian black shales in the southern part of the Appalachian Basin: U.S. Geological Survey Chart OC-85.
- ***Ettensohn, F.R.**, and Glass, H.D., 1978, Clay-mineral stratigraphy of pre-Illinoian lake clays from the Cincinnati region: Journal of Geology, v. 86, p. 393-402.
- ***Ettensohn, F.R.**, 1978, Acrothoracic barnacle borings from the Chesterian of eastern Kentucky and Alabama: Southeastern Geology, v. 20 (1), p. 27-31.
- 1979** ***Ettensohn, F.R.**, and Peppers, R.A., 1979, Palynology and biostratigraphy of Pennington shales and coals (Chesterian) at selected sites in northeastern Kentucky: Journal of Paleontology, v. 53 (2), p. 453-474.
- ***Ettensohn, F.R.**, Fulton, L.P., and Kepferle, R.C., 1979, Use of scintillometer and gamma-ray logs for correlation and stratigraphy in homogeneous black shales: Geological Society of America Bulletin, v. 90, p. 828-849.
- Ettensohn, F.R.**, and Dever, G.R., Jr., eds., 1979, Carboniferous geology from the Appalachian Basin to the Illinois Basin through eastern Ohio and Kentucky: Guidebook for Field Trip No. 4, (includes 11 articles authored or co-authored by Ettensohn), IX International Congress of Carboniferous Stratigraphy and Geology, Lexington, KY, 93 p.
- 1980** ***Ettensohn, F.R.**, 1980, An alternative to the Barrier-Shoreline model for deposition of Mississippian and Pennsylvanian rocks in northeastern Kentucky: Geological Society of America Bulletin, v. 91, p. 130-135 (pt. II, v. 91, p. 934-1056).
- Dillman, S.B.*, and **Ettensohn, F.R.**, 1980, Structure contour map on the base of the Ohio Shale in eastern Kentucky: Morgantown Energy Technology Center, U.S. Department of Energy, 1 sheet, scale 1:370,000, METC/EGSP Series No. 507.
- Dillman, S.B.*, and **Ettensohn, F.R.**, 1980, Structure contour map on the base of the West Falls Formation (Rhinestreet Shale, Unit 7) in eastern Kentucky: *ibid.*, METC/EGSP Series No. 508.
- Dillman, S.B.*, and **Ettensohn, F.R.**, 1980, Structure contour map on the base of the

Java Formation/Olentangy Shale (Unit 6) in eastern Kentucky: *ibid.*, METC/EGSP Series No. 509.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Structure contour map on the base of the lower Huron Shale Member (Unit 5) of the Ohio Shale in eastern Kentucky: *ibid.*, METC/EGSP Series No. 510.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Structure contour map on the base of the middle Huron Shale Member (Unit 4) of the Ohio Shale in eastern Kentucky: *ibid.*, METC/EGSP Series No. 511.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Structure contour map on the base of the upper Huron Shale Member (Unit 3) of the Ohio Shale in eastern Kentucky: *ibid.*, METC/EGSP Series No. 512.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Structure contour map on the base of the Three Lick Bed (Unit 2) of the Ohio Shale in eastern Kentucky: *ibid.*, METC/EGSP Series No. 513.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Structure contour map on the base of the Cleveland Shale Member of the Ohio Shale in eastern Kentucky: *ibid.*, METC/EGSP Series No. 514.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Isopachous map of the Devonian black-shale sequence (New Albany-Chattanooga-Ohio Shale) in eastern Kentucky: *ibid.*, METC/EGSP Series No. 515.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Isopachous map of the Rhinestreet Shale (Unit 7) in eastern Kentucky: *ibid.*, METC/EGSP Series No. 516.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Isopachous map of the Upper Olentangy Shale (Unit 6) in eastern Kentucky: *ibid.*, METC/EGSP Series No. 517.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Isopachous map of the middle Huron Shale Member (Unit 5) of the Ohio Shale in eastern Kentucky: *ibid.*, METC/EGSP Series No. 518.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Isopachous map of the upper Huron Shale Member (Unit 4) of the Ohio Shale in eastern Kentucky: *ibid.*, METC/EGSP Series No. 519.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Isopachous map of the Three Lick Bed (Unit 3) of the Ohio Shale in Eastern Kentucky: *ibid.*, METC/EGSP Series No. 520.

Dillman, S.B., and **Ettensohn, F.R.**, 1980, Isopachous map of the Three Lick Bed (Unit 2) of the Ohio Shale in eastern Kentucky: *ibid.*, METC/EGSP Series No. 522.

***Ettensohn, F.R.**, 1980, *Paragassizocrinus*: Systematics, phylogeny, and ecology: Journal of Paleontology, v. 54, p. 978-1007.

Barron, L.S., and **Ettensohn, F.R.**, 1980, A bibliography of the paleontology and paleoecology of the Devonian-Mississippian black-shale sequence in North America: Technical Information Center, U.S. Department of Energy, DOE/METC/5202-13 (UGR File #418), 86 p.

1981 **Ettensohn, F.R.**, and *Barron, L.S.*, 1981, Depositional model for the Devonian-

Mississippian black-shale sequence of North America: A tectono-climatic approach: Technical Information Center, U.S. Department of Energy, DOE/METC/12040-2, 80 p.

***Ettensohn, F.R.**, 1981, *Crininicaminus haneyensis* gen. et. sp. nov., a new agglutinated worm tube from the Chesterian of east-central Kentucky: *Journal of Paleontology*, v. 55, p. 479-482.

*Broadhead, T.W., and **Ettensohn, F.R.**, 1981, A new *Brockocystis* (Echinodermata: Rhombifera) from the Lower Silurian (Llandovery) of Kentucky: *Journal of Paleontology*, v. 55, p. 773-779.

Barron, L.S., and **Ettensohn, F.R.**, 1981, Paleoecology of the Devonian-Mississippian black shale sequence in eastern Kentucky: Technical Information Center, U.S. Department of Energy, DOE/ET/12040-151, 75 p.

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Ettensohn, F.R., and *Li, J.*, 2019, The origin and significance of the Lower Mississippian Sunbury Shale in east-central United States: American Association of Petroleum Geologists 48th Annual Eastern Section Meeting, Program with Abstracts, p. 57–58.

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Ettensohn, F.R., Clayton, G., and Mason, C.E., 2020, Latest Devonian alpine glaciation from the central Appalachian Basin and its possible influence on coeval black-shale deposition: Geological Society of America Abstracts with Programs, v. 52 (6); doi: 10.1130/abs/2020AM-352512;
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2021

Martins, G., **Ettensohn, F.R.**, and Knutsen, S.-M., 2021, Appalachian-Basin analogs as a tool for understanding the geology of the Barents Sea shelf: Geological Society of America Abstracts with Programs., v. 53 (2): doi: 10.1130/abs/2021SE-362211.

Ettensohn, F.R., 2021, Using the confluence of flexural models, biostratigraphy and absolute dating to determine the duration of clastic-wedge formation in two Appalachian tectophases: Geological Society of America Abstracts with Programs., v. 53 (2): doi: 10.1130/abs/2021SE-362329.

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Martins, G., **Ettensohn, F.R.**, and Knutsen, S.-M., 2021, Understanding the tectonostratigraphic development of the Upper Permian–Middle Jurassic clastic succession on the Barents Sea Shelf: Geological Society of America Abstracts with Programs, v. 53 (6); doi: 10.1130/abs/2021AM-365012.

- 2022** Ettensohn, F.R., Li, J., and Gilliam, W., 2022, Neoacadian tectonism and the origin of the Sunbury Shale, east-central United States: Geological Society of America Abstracts with Programs, v. 54.

THESES AND DISSERTATIONS DIRECTED

- 1978** Paleoenvironmental study of the Chaffee Group (Upper Devonian) in northeast Gunnison County, Colorado (David M. Rettew: M.S.)
Stratigraphy of the Upper Devonian-Lower Mississippian shale sequence in the eastern Kentucky outcrop belts (Dennis R. Swager: M.S.)
A petrographic study of the Upper Devonian-Lower Mississippian black shales in Eastern Kentucky (Michael L. Miller: M.S.)
- 1980** Echinoderms from the lower part of the Pennington Formation (Chesterian) in south-central Kentucky (Donald R. Chesnut: M.S.)
Subsurface geology of the Upper Devonian-Lower Mississippian black-shale sequence in Eastern Kentucky (Scott B. Dillman: M.S.)
Stratigraphy and paleoenvironments in the Lower Silurian Brassfield Formation of Eastern Kentucky (Larry A. Gorden: M.S.)
- 1981** Paleoenvironmental analysis of the Oregon Formation (Middle Ordovician) in central Kentucky (Mark A. Horrell: M.S.)
Stratigraphic and paleoenvironmental aspects of the Bedford-Berea sequence and Sunbury shale in eastern Kentucky (Tim D. Elam: M.S.)
- 1982** Pedogenic carbonates (Caliche) in the Lower Newman limestone (Mississippian) of northeastern and east-central Kentucky: Evidence for subaerial exposure, weathering and soil formation (Jeff Grow: M.S.)
Paleontology and paleoecology of the Upper Devonian-Lower Mississippian black-shale sequence in Eastern Kentucky (Lance S. Barron: M.S.)
- 1984** Evidence for pedogenesis in Pleistocene-Holocene carbonates on San Salvador Island, Bahamas (A.P. Hale: M.S.)
- 1985** Paleoenvironmental analysis of the Bedford-Berea sequences (Devonian-Mississippian), northeastern Kentucky and south-central Ohio (Jack Pashin: M.S.)
Tempestites and depositional interpretations of the Middle Ordovician Curdsville Limestone of Central Kentucky (E.A. Grossnickel: M.S.)
Stratigraphic relationships between the Devonian-Mississippian black-shale sequence in the Appalachian and Illinois basins (K.L. Geller: M.S.)
- 1986** Characterization and origin of the Garrard Siltstone (Upper Ordovician), central and eastern Kentucky (G. Jacobs: Ph.D.)
Echinoderm systematics and paleoecology, Lexington limestone and parts of the Clays Ferry Formation (Middle Ordovician), central Kentucky (C.A. Smith: M.S.)
- 1987** A preliminary paleoecological study of the Cincinnati (Maysvillian) crinoid garden (A. Axon; M.S.)

- Stratigraphy and paleoenvironments, Sawatch Formation (Cambrian), Cement Creek area, Gunnison County, Colorado (M.K. Allex: M.S.)
- 1988** Lithofacies and paleoenvironments, Lower Pennsylvanian rocks, Kentucky State Route 80 near the Rockcastle River (B.C. Amig: M.S.)
- Stratigraphic analysis of the Carboniferous rocks of the central Appalachian Basin (D.R. Chesnut: Ph.D., with N. Rast)
- 1990** Reevaluation of the Bedford-Berea sequence in Ohio and adjacent states: Epeiric sedimentation and relaxational tectonics in a foreland basin (J.C. Pashin: Ph.D.)
- Characterization and paleoenvironmental interpretation of the Louisville and Lego formations, west-central Kentucky (D. Phelps: M.S.)
- 1992** Paleocology of a Cincinnatian (Upper Ordovician) crinoid-garden community from southwestern Ohio (A. Axon: Ph.D.)
- 1995** Paleoenvironmental interpretation of the Brannon Member, Middle-Upper Ordovician Lexington Limestone, Bluegrass Region of Central Kentucky (M.A. Kulp: M.S.)
- Tectonic implications of the erosional and depositional features in Upper Meramecian and Lower Chesterian (Mississippian) carbonate rocks of south-central and east-central Kentucky (G.R. Dever, Jr.: Ph.D.)
- The Portwood Member (Upper and Middle Devonian) of the New Albany Shale of central Kentucky: Nature and origin (S.F. Barnett: Ph.D.)
- 1996** Stratigraphy and sedimentology of the Silurian (Wenlockian) Laurel Member of the Salamonie Dolomite in Kentucky and adjacent southeastern Kentucky (R.T. Hendricks: M.S.)
- 1997** Structural control on the origin and nature of the Brassfield Formation (Lower Silurian) west of the Cincinnati Arch (W.M. Andrews, Jr.: M.S.)
- 1998** Petrography, facies stratigraphy, and depositional environments of the Big Lime (Middle and Upper Mississippian) on the Pine Mountain Overthrust, Southeastern Kentucky (E.S. Johanson: M.S.)
- "Reef" occurrence and sequence stratigraphy, Upper Ordovician Bardstown Member, Drakes Formation, north-central Kentucky (S.R. Schmidt: M.S.)
- 2000** Subsurface characterization of a new clastic, gas-producing unit at the base of the Big Lime in southeastern Kentucky and northeastern Tennessee (M.B. Vest: M.S.)
- 2001** The nature and origin of the Devils Hollow Member, Lexington Limestone, central Kentucky (J.M. Kasl: M.S.)
- The origin of the Cane Run Bed, Lexington Limestone, central Kentucky (H.E. Jewell: M.S.)
- 2002** Penecontemporaneous faulting within the Pennsylvanian Pikeville to Four Corners Formations, Breathitt Group, southeastern Kentucky (G.C. Cornett: M.S.)
- Origin of the middle tongue of the Tanglewood Member, Lexington Limestone, and its soft-sediment deformation, Middle Ordovician, central Kentucky (A.K. Stewart: M.S.)

- 2003** Origin of a Late Ordovician edriasteroid firmground, Sulphur Well Member, Lexington Limestone, central Kentucky (M.J. Dahlem: M.S.)
- 2004** The sedimentation, stratigraphy, and petrology of a coal-ash pond in Carroll County, Kentucky (R.B. Jewell: M.S.)
- 2006** Developing a temporal framework for the Upper Ordovician Lexington Limestone, central Kentucky, U.S.A.: Biostratigraphy, chemostratigraphy, and event-stratigraphy (J. Coates: Ph.D.)
- 2008** From clastic to carbonates: Tectonic and eustatic controls on the transition from the Borden delta to the Slade carbonate platform (D.B. Wilhelm: M.S.)
- 2010** Carbonate stratigraphy of the lower part of the Slade Formation (Mississippian) and the soft-sediment deformation in the St. Louis Member, Kentucky, U.S.A. (co-advised with C. Jianping, China University of Geosciences, Beijing) (M. Zeng: Ph.D.)
- 2011** Lithostratigraphic and paleoenvironmental framework of the Upper Ordovician Lexington Limestone, Bluegrass Region, central Kentucky (M. Clepper: Ph.D.)
Depositional and stratigraphic significance of marine, green-clay, mineral facies in the Lower–Middle Mississippian Borden and Fort Payne formations, western Appalachian and eastern Illinois Basins, Kentucky (D. Udgate: Ph.D.)
- 2012** Geology of the Eau Claire Formation and Conasauga Group in part of Kentucky and analyses of their suitability as cap rocks for deeper CO₂ sequestration (R. Bandy: M.S., co-advised with Steve Greb)
- 2014** The nature and origin of cyclicity in the Cleveland Member of the Ohio Shale (Upper Devonian), northeastern Kentucky, U.S.A. (A. O’Byrne: M.S.)
- 2017** The Oligocene West Elk Breccia: Evidence for massive volcanic debris avalanches in the eastern Gunnison River valley, west-central Colorado, U.S.A. (P. Whalen: M.S.)
Interpretation of the depositional environments and soft-sediment deformation in the upper tongue of the Tanglewood Member (Upper Ordovician) of the Lexington Limestone, central Kentucky, U.S.A. (D.R. Koirala: Ph.D.)
- 2018** Occurrence and attributes of two echinoderm-bearing faunas from the Upper Mississippian (Chesterian; lower Serpukhovian) Ramey Creek Member, Slade Formation, eastern Kentucky, U.S.A. (A.W. Harris: Ph.D.)

In Progress

The systematics and paleoecology of *Edriocrinus* (C. Herbert: M.S.)

Tectono-stratigraphic development of the Barents Sea shelf: When Arctic meets the Appalachians (G. Martins: Ph.D.)

Three-dimensional mapping of the upper Lexington Limestone, central Kentucky (S. Davis: M.S.)