

PROFESSIONAL VITA OF JOHN L. SEXTON
(4/11/13)

I. PERSONAL

- A. Date and Place of Birth: May 21, 1942; Carmi, IL
- B. Present Home Address: 1309 Tanglewood Drive, Herrin, IL, 62948
- C. Present University Department: Geology (Southern Illinois University)

II. EDUCATION

- 1964 B.S. Clarion State College (Physics)
- 1971 M.A. Indiana University (Geophysics)
- 1974 Ph.D. Indiana University (Geophysics-Seismology)

III. PROFESSIONAL EXPERIENCE

- 1969-73 Indiana University, Ph.D. Program, Bloomington, IN
- 1973-75 Senior Geophysicist, Research, Texaco, Inc., Houston, TX
- 1975-78 Assistant Professor of Geophysics, Department of Geology, Southern Illinois University, Carbondale, IL
- 1978-82 Assistant Professor of Geophysics, Department of Geosciences, Purdue University, West Lafayette, IN
- 1982-85 Supervisor of Exploration Systems, ARCO Exploration Company, Northeastern Region, Dallas, TX
- 1985-91 Associate Professor of Geophysics, Southern Illinois University, Carbondale, IL
- 1991-Present Professor of Geophysics, Southern Illinois University, Carbondale, IL

IV. TEACHING EXPERIENCE

A. Courses Taught at Southern Illinois University

- | | |
|---|-------------------------------|
| Elementary Exploration Geophysics | Theory of Seismology |
| Engineering Geology | Numerical Methods Seismology |
| Applied Seismology | Borehole Geophysics, Geo 440 |
| Gravity and Magnetism | Graduate Seminar 542A |
| Field course in Geophysics | Inverse Methods in Geophysics |
| Archaeological Geophysics | Environmental Geophysics |
| Computer Methods in Geophysics | Earthquake Seismology |
| Advanced Topics in Geophysics | Seismic Reflection Processing |
| Geophysical Studies of Midcontinent Rift | Geology and the Environment |
| Geophysical Studies of New Madrid Rift | The Dynamic Earth Geology 220 |
| Geology 440 (numerous times) | 3 D reflection Seismology |
| Applied Geophysics (formerly Elementary Exploration Geophysics Geo 436) | |
| Courses Taught at Purdue University | |
| Geophysical Exploration | Introduction to Seismology |
| Seismic Exploration | Geophysics Seminar |

- B. Teaching and Training Grants
IPRB grant for Computer System for Applied Geophysics Research and Teaching
(2009-2010) \$17250
- C. Teaching Awards and Honors
- Arco Award for Teaching and Research Contributions to Scientific Education
(\$5,000) (by Geophysics faculty of Purdue University from Industry funds, 1981)
- D. Current Graduate Faculty Status: Direct Dissertation
- E. Number of Master's and Ph.D. Students Supervised: 27- Masters 1- Ph.D.

Currently supervisor on 4 MS Committees and on other 1 PhD and 3 MS

Served on many other MS and PhD committees

Served on PhD committee R. Dass Civil Engineering Dept, SIU (2003)

- F. Names of Masters and PhD Students Who Have Completed Masters Theses and
Doctoral Dissertations under your Direction

Masters at Purdue University

James Baldwin

Paul B. Jones

Masters at SIUC

David Malicki

E.P. Frey

Harvey Henson

Scott Wendling

Russell Pederson

Paul Dial

Yu Bo Du

Ed Zaengle

Shiping Wang

Mamadou Coulibaly

Ryan Fairfield

N'Guessan Rector Koffi

Adam LeGrande

Robert Bodziak

Yvonne Griffin

Steve Cochran

Karyn Kasprzak

Marshall Lake

Sarah Mueller

Jason McClain

Milton Smith

Alicia Stanfill

Dominic Smith

Shibaji Chatterjee

Samantha Kroenke (2011)

Currently supervising 4 MS students

PhD Students at SIUC
Jianjun Zhang (1996)

(note: there were no Geophysics applicants to the ERP PhD program)

V. University Service

A. Department Committees

Space Committee 1985-2000, 2002
Speakers Committee 1985- various years
Computer Committee 1985-1999, 2002
Curriculum Committee 1986- (3 sub committees)
PhD Admissions Committee 1988-1991, 1996- 1998 (Chairman 1992-1993)
MS Admissions Committee 1989-1990, 1995-2000 and 2007-2010
Geophysics Search Committee 1989
PhD Preliminary Exam Committee 1991-2000
Geology Brochure Committee 1991
Long Range Planning Committee 1996-2000
Geology Scholarship Committee 2001- (Chairman 2007)
Geophysics Search Committee 2008
Various other committees

B. College and University Committees and Councils

College of Science Dissertation Awards Committee 1987- 2012
College of Science Outstanding Dissertation Award Committee 1994-1997
College of Science Outstanding Researcher Selection Committee 1986-1990
ORDA Review Committee for Mathematics and Natural Sciences 1987-1992
A Grievance Committee 1987-1988
College of Science Personnel Committee 1998-2000
College of Science Operating Paper Committee 2000
College of Science Curriculum Committee 2004-2013
College of Science Outstanding Teacher Award Committee (2009-

C. Other: I served on numerous committees at SIUC and at Purdue university

VI. A. Membership in Professional Associations

Seismological Society of America
Society of Exploration Geophysicists
American Geophysical Union
Sigma Xi

Illinois Geological Society 2011-

B. Offices Held and Honors Awarded in Professional Associations

Member of GLIMPCE Seismic Subcommittee 1986-
Member of Geophysics Interacting Committee IBUD Project (1986)
Member of IBUD Site Selection Committee (1986)
Member of Society of Exploration Geophysicists International Affairs
Committee (1992-1993); Recorder of minutes (1992-1993); Co-Chairman of
Eastern European Subcommittee; and member of two other committees

- C. Consultantships
 Bureau of Reclamation, 1981-1986
 T&C Energy Investments, 1985
 Energy Resources of Indiana, Inc., 1987
 Amax Coal Company, 1988
 Carr, Tabb, and Pope, 1989
 R.A. Nack and Associates, 1990
 Peabody Coal Company 2004-2005
- D. Evaluation of Manuscripts For Journals ; Book publishers; Grant proposals:
 Reviewed Grant proposal for IMMRRRI
 Reviewed several papers for Bulletin of the Seismological Society of America
 Reviewed several papers for Journal of Geophysical Research
 Reviewed several papers for Geophysics
 Reviewed 3 research proposals for USGS NEHERP program (1991)
 Reviewed 1 manuscript for Seismological Research Letters (1992)
 Reviewed 1 manuscript for Journal of Engineering Geology (1996)
 Reviewed Masters thesis for ORAU (Oak Ridge Associated Universities) (2004)
 Reviewed 1 Manuscript for Journal of Precambrian Research (2006)
 Reviewed 5 Manuscripts for Proceedings of Highway Geophysics Conference (2006)
 Reviewed two research proposals for research projects in Azerbaijan for U.S. Civilian Research and Development Foundation (CRDF) 2007)

 Reviewed one manuscript for online journal Geosphere (2008)
- E. Papers and presentations at Professional Meetings:
 Sexton, J.L., J. Mead, and A.J Rudman, Feasibility of Midwest Crustal Studies Based on Earthquake Surface Wave Ellipticities, Presented at Indiana Academy of Science Meetings, November 14-15, 1972, University of Notre Dame, South Bend, Indiana.
 Sexton, J.L., and R.D. Cole, Maximum Entropy Spectrum Analysis of Varbed Oil Shale, Green River Formation, Colorado: (Abstract), Geological Society of America (GSA North-Central Section Annual Meeting, Carbondale, Illinois, April, 1977).
 Steele, Sheila, Sexton, J.L. and W.C. Hood, Radon Profiles of the New Madrid Seismic Region (abstract), Seismological Society of America (SSA 73rd Annual Meeting, 1978).
 Steele, Sheila, Hood, W.C. and J.L. Sexton, Spatial and Temporal Radon Flux in the New Madrid Seismic Zone (abstract), American Geophysical Union (AGU Midwest Meeting, September, 1978).
 Sexton, John L., Frey, E.P., and D. Malicki, Feasibility of High Resolution Seismic Reflection Surveying in the Vicinity of Reelfoot Scarp in Northwestern Tennessee (abstract), Geological Society of America (GSA South-Central Section Annual Meeting, Mountain View, Arkansas, April, 1979).
 Sexton, John L., Baldwin, J. L., Braile, L. W., Hinze, W. J., Keller, G. R., Crustal Seismic Studies in the Wabash River Valley Area, (abstract) Geological Society of America (GSA South-Central Section Annual Meeting-Mountain View, Arkansas, April, 1979).

- Braile, Lawrence W., Hinze, William J., Sexton, John L., Keller, G. R., and Lidiak, E. G., Seismo-Tectonics of the New Madrid Seismic Zone and its Extension - An Overview (abstract) Geological Society of America (GSA North-Central Section Annual Meeting, Bloomington, Indiana, April, 1980).
- Baldwin, J.L., Sexton, J.L. and Braile, L.W., Crustal Seismic Studies Related to the Northeast Extension of the New Madrid Seismic Zone, (abstract) Geological Society of America (GSA North-Central Section Annual Meeting, Bloomington, Indiana, April, 1980).
- Sexton, J.L. and W. J. Hinze, A Magnetic Profile Map of the United States (poster paper), American Geophysical Union Midwestern Meeting, DeKalb, Illinois, September, 1980.
- Sexton, John L., J. L. Baldwin, L. W. Braile, W. J. Hinze, and G. R. Keller, Crustal Models of the Wabash River Valley Area from Seismic Refraction Data (abstract), 1980.
- Sexton, John L., J. L. Baldwin, and L. W. Braile, Seismic Wave Propagation Studies in the Wabash River Valley Area using Coal Mine Blast Sources (abstract), Seismological Society of America, Eastern Section, Annual Meeting, The Pennsylvania State University, State College, Pennsylvania, October, 1980.
- Sexton, J. L., W. J. Hinze, R. R. B. von Frese and L. W. Braile, Long Wavelength Aeromagnetic Map of the U.S.A., American Geophysical Union, Spring Meeting, Baltimore, Maryland, May 25-29, 1981.
- von Frese, R.R.B., W. J. Hinze, J. L. Sexton and L. W. Braile, U.S. Aeromagnetic and Satellite Magnetic Anomaly Comparisons, IAGA Meeting, Edinburgh, Scotland, 1981.
- Hinze, W. J., J. L. Sexton, R. R. B. von Frese and L. W. Braile, Correlation of Regional Geologic Features with Long-Wavelength Magnetic Anomalies, Geological Society of America National Meeting, Cincinnati, Ohio, November 2-5, 1981.
- Sexton, John L. and P. B. Jones, High Resolution Seismic Reflection Surveying on Reelfoot Scarp, Geological Society of America National Meeting, Cincinnati, Ohio, November 2-5, 1981.
- Braile, L. W., W. J. Hinze, J. L. Sexton, G. R. Keller and E. G. Lidiak, Seismotectonics of the Midcontinent USA, Geological Society of America National Meeting, Cincinnati, Ohio, November 2-5, 1981.
- Jones, Paul B. and J. L. Sexton, Evidence from Seismic Reflection Data and Synthetic Seismogram Model Studies for Recurrent Faulting in the New Madrid Area (abstract), Geological Society of America North-Central Meeting, West Lafayette, Indiana, April 29-30, 1982.
- Sexton, John L., L. W. Braile, and W. J. Hinze, Seismic Reflection Surveying in the Wabash River Valley (abstract), Geological Society of America North-Central Meeting, West Lafayette, Indiana, April 29-30, 1982.
- Sexton, John L., Braile, L.W. and W.J. Hinze, Seismic Reflection Surveying in the Wabash River Valley (abstract), Geological Society of America North-Central Meeting, West Lafayette, Indiana, April 29-30, 1982.
- Sexton, John L., Reflection Surveying in the New Madrid Rift Complex, DOSECC Meeting, St. Louis, MO, February 23-27, 1986. (This was a poster paper.)
- Sexton, John L., R.P. Meyer, John Karl, Ann Trehu, P. Morel-a-l'Heusser, Observations of airgun shots at Lake-Bottom and Land Seismographs in the Great Lakes Region, Project GLIMPCE, August, 1987, Poster paper, International Union of Geodesy and Geophysics, Vancouver, British Columbia, Canada.

- Sexton, John L. with other members of the GLIMPCE Program. May, 1987, Poster Paper, GLIMPCE Special Display, Poster Booth #Sp-2., Geological Society of America Annual Meeting, Phoenix, AZ.
- Sexton, John L., Results from seismic reflection methods for detection of reactivated structures associated with seismicity in the New Madrid seismic zone, National workshop on seismogenesis in the eastern United States, sponsored by NSF, University of Illinois at Urbana-Champaign, April 12-13, 1988. (Abstract).
- McGinnis, L.D., Cannon, W.F., Dickas, A.B., Ervin, C.P., Green, A., Hinze, W.J., Milkereit, B., Morey, G.B., Mudrey, M.G., Nyquist, J., Sexton, J.L., Wang, H.F., Geophysical and Tectonic study of Sedimentary Basins and the Upper Crust Beneath Lake Superior (abstract), American Geophysical Union, v. 70, no. 15, p. 272, April, 1989, Annual Spring Meeting, Baltimore, MD.
- Morel-a-l'-Huissier, P., Hajnal, Karl, J.H., Mereau, R.F., Meyer, R.P., Sexton, J.L., Trehu, A., Ervin, C.P., Hutchinson, D.R., Green, A.G., GLIMPCE 1986 Seismic Refraction Experiment: an Introduction to the Data, (abstract), American Geophysical Union, v. 70, no. 15, p. 273, April 11, 1989, Annual Spring Meeting, Baltimore, MD.
- Wendling, S.A., and Sexton, J.L., Velocity Filtering of wide-angle Reflection/Refraction Data from GLIMPCE Lake Superior Line A Seismic Experiment, (abstract), American Geophysical Union, v. 70, no. 15, p. 273, April 11, 1989, Annual Spring Meeting, Baltimore, MD.
- Bowden J.B. and Sexton, J.L., Wide Angle Reflection / Refraction Experiment in the Illinois basin (abstract), American Geophysical Union, v. 70, no. 15, p. 277, April 11, 1989, Annual Spring Meeting, Baltimore, MD.
- Hinze, W.J., Braile, L.W., McGinnis, L.D., Cannon, W.F., Milkereit, B., Sexton, J.L., Wang, H.F., Structure of the Midcontinent Rift System in Eastern Lake Superior: Results from 8-second Reflection Seismic Data and Gravity and Magnetic Anomalies (abstract), American Geophysical Union, v. 70, no. 15, p. 277, April, 1989, Annual Spring Meeting, Baltimore, MD.
- Mudrey, M.G., McGinnis, L.D., Ervin, C.P., Nyquist, J., Dickas, A.B., Morey, G.B., Green, A.G., Sexton, J.L., Structure of the Midcontinent Rift System in Western Lake Superior: Results from 8-second Reflection Seismic data and Gravity and Magnetic Anomalies (abstract), American Geophysical Union, v. 70, no. 15, p. 278, April, 1989, Annual Spring Meeting, Baltimore, MD.
- Henson, H. and Sexton, J.L., High Resolution Seismic Reflection Surveying of Coal Seams in Southeastern Illinois, Presented at Annual meeting of the Society of Exploration Geophysicists, Dallas, TX, 1989, Published in Expanded abstracts of meeting.
- McGinnis, L.D., Sexton, J.L., Nyquist, J., Mudrey, M.G., Morey, G.B., Milkereit, B., Hinze, W.H., Green, A., Ervin, C.P., Dickas, A.B., Cannon, W.F., Tectonics of Sedimentary Basins and Upper Crust Beneath Lake Superior (abstract), Institute on Lake superior Geology, May, 1989.
- Sexton, John L., Met with Argonne/GNI seismic reflection research group at Madison, Wisconsin, at Wisconsin Geological Survey. Presented interpretation of GNI data, August, 1989.
- Henson, Harvey, Jr. and Sexton, John L., Interpretations of Subsidiary Faulting along the Cottage Grove Fault System from High Resolution Seismic Reflection Profiles, GSA North-Central Meeting, Macomb, IL, April 26-27, 1990, Presentation and Published Abstract.

- Du, Yubo, Sexton, John L., and Henson, Harvey, Jr., Geotomographic Exploration of Floor Strata in an Underground Coal Mine, GSA North-Central Meeting, Macomb, IL, April 26-27, 1990, Presentation and Published Abstract.
- Wang, Shiping, Sexton, John L., and Henson, Harvey, Jr., In-mine Seismic Studies of Floor Strata Beneath a Coal Pillar, GSA North-central Meeting, Macomb, IL, April 26-27, 1990, Presentation and Pulished Abstract.
- Sexton, John L., Henson, Harvey, Jr., and Flanagan, Kathryn, Relationship Between Topography and Deep Crustal Rift Structure Beneath Lake Superior, Penrose Conference on "Large Lakes and Their Stratigraphic Records", Lake Tahoe, September 9-13, 1990, Lake Tahoe, CA, (Poster Session).
- Sexton, John L. and Henson, Harvey, Jr., Geophysical-Geomorphology Studies in the New Madrid Seismic Zone, XXII General Assembly of the European Seismological Commission, Barcelona, Spain, September 16-22, 1990, Presentation and Published Abstract.
- Sexton, John L. and Henson, Harvey, Jr., Interpretation of Seismic Reflection and Gravity Profile Data in Lake Superior, 35th International Geophysical Symposium, Varna, Bulgaria, October 2-5, 1990.
- Sexton, John L., Henson, Harvey, Jr., and Dial, Paul, Shedlock, Kaye, Mini-Sosie High Resolution Reflection Surveys of the Bootheel Lineament in the New Madrid Seismic Zone, Fall meeting of the American Geophysical Union, San Francisco, CA, December 3-7, 1990, Poster Session and Published Abstract, Transactions, American Geophysical Union (EOS). 71, 14.
- Henson, Harvey, Jr., Sexton, John L., and Victory, Denise, Mini-Sosie High Resolution Reflection Surveys Along the Blytheville Arch in the New Madrid Seismic Zone, Spring meeting of the American Geophysical Union, Baltimore, MD, May, 1991, Poster Session and Published Abstract, Transactions of the American Geophysical Union, (EOS), p. 273.
- Du, Yu Bo, Sexton, John L., Henson, Harvey, Jr., and Wang, Shiping, Seismic Tomographic Exploration of Floor Strata in an Underground Coal Mine, Spring Meeting of the American Geophysical Union, Baltimore, MD, May, 1991, Published Abstract, Transactions of the American Geophysical Union, (EOS), p. 193.
- Sexton, John L. and Henson, Harvey, Jr., Relationship Between Bedrock Topography and Deep Crustal Rift Structures Beneath Lake Superior, Annual Geological Society of America Meeting, October 1991, San Diego, CA, Poster Session and Published Abstract, Program with Abstracts.
- Sexton, John L., Henson, Harvey, Jr., Dial, Paul, Victory, Denise, and Shedlock, K.M., (1991), Mini-Sosie High Resolution Seismic Reflection Survey in the New Madrid Seismic Zone, Poster Session and Published Abstract, Program and Abstracts, 63rd Ann. Mtg. Eastern Seis. Soc. Am., p. 81, October 14, 1991, Memphis TN.
- Sexton, John L., Henson, Harvey, Dial, Paul, and Victory, Denise, Neotectonic Investigations of Structures in the New Madrid Seismic Zone Using the Mini-Sosie High Resolution Reflection Method, International Union of Geodesy and Geophysics, Vienna, Austria, August, 1991, Poster Paper and Short Oral Presentation.
- Sexton, J.L. and Henson, H., New Madrid Seismic Zone Geophysical Research at Southern Illinois University at Carbondale, CUSEC Special Volume on CUSEC/FEMA Research Summit Workshop, Memphis, TN, July 29-30, 1992.
- Sexton, J.L. and Henson,H., Use of High Resolution Seismic Reflection in Premine Study of Shallow Coal Deposits at 4th Conference on Ground Control for Midwestern U.S. Coal Mines, Mt. Vernon, IL, Nov. 2-4, 1992

- Sexton, J.L., Du, B.Y., Henson, H., and Wang, S., Seismic Tomographic Investigations of Floor Strata Beneath a Coal Pillar in an Underground Coal Mine at 4th Conference on Ground Control for Midwestern U.S. Coal Mines, Mt. Vernon, IL Nov. 2-4, 1992.
- Sexton, J.L., Du, B.Y., Henson, H. and Wang, S., Seismic Refraction Tomography Experiment for Evaluation of the Structure and Seismic Velocity of Floor Strata Beneath a Coal Pillar in an Underground Coal Mine at Coal, Energy and Environment Meeting, Ostrava, Malenovice, Czechoslovakia, Oct. 12-16, 1992.
- Sexton, J.L. and Henson, H., Seismic Reflection and Gravity Profile Models of Data from Lake Superior, at AGU Spring Meeting, May 12-16, 1992, Montreal, Canada, EOS Transactions Supplement, vol. 73, no. 14, p. 320.
- Sexton, John L., presented two one hour long research lectures on the New Madrid Seismic Zone at ETH in Zurich, Switzerland, in December, 1994.
- Sexton, J.L., Henson, H., Jr., Green, A., Lehmann, F., Coulibaly, M., and Horstmeyer, H., Georadar profiling in the Chott Rharsa Basin of Southern Tunisia, Society of Exploration Geophysicists International Conference, St. Petersburg, Russia, July, 1995. (Poster Presentation).
- Sexton, J.L., Henson, Jr., H., Dial, P., Koffi, R., and Coulibaly, M., Seismic reflection and georadar investigation of Sikeston Ridge in the New Madrid Seismic Zone, SSA, April 1996, St. Louis, Seismological Research Letters, vol. 67, no. 2, Abstracts Supplemental pages, March/April, 1996.
- Sexton, J.L., Henson, Jr., H., Koffi, R., Coulibaly, M., and Nelson, J., Seismic reflection and georadar investigation of Barnes Creek area in southeastern Illinois, SSA, April 1996, St. Louis, Seismological Research Letters, vol. 67, no. 2, Abstracts Supplemental pages, March/April, 1996.
- Henson, Jr., H., Sexton, J.L., Byer, G., Graham, Q., Coulibaly, M., and Koffi, R., Georadar investigation of filled karst in a limestone quarry, Geological Society of America 45th annual Southeastern Section Mtg., Geophysics Theme Session, March 14-15, 1996, Jackson, MS, Abstracts with Programs, vol. 28, no. 2, p. 15, Feb. 96.
- Coulibaly, M., Sexton, J.L., Henson, Jr., H., Lehman, F., and Green, A., Acquisition and processing of georadar from the Chott Rharsa Basin of southern Tunisia, Geological Society of America 45th annual Southeastern Section Mtg., Geophysics Theme Session, March 14-15, 1996, Jackson, MS, Abstracts with Programs, vol. 28, no. 2, p. 8, Feb. 96.
- Sexton, J.L., Henson, Jr., H., Fairfield, R., Corruccini, R., and Armstrong, D., Magnetic surveying of New Seville archaeological sites near St. Ann's Bay, Jamaica, W.I., Geological Society of America 45th annual Southeastern Section Mtg., Geophysics Theme Session, March 14-15, 1996, Jackson, MS, Abstracts with Programs, vol. 28, no. 2, p. 43, Feb. 96.
- Lehmann, F., Horstmeyer, H., Green, A., Sexton, J.L., Coulibaly, M., Georadar Data from the Northern Sahara Desert: Problems and Processing Strategies, GPR '96, October, 1996, Tokyo Japan, GPR' 96 Proceedings.
- Zhang, J. and Sexton, J.L., 1996, Tomographic inversion using matrices with application to Lake Superior, EOS, presented (Poster Session) at Spring Meeting AGU, Baltimore, MD.
- Henson, Harvey, Jr., Sexton, John L., Henson, Melissa A., and Jones, Paul, 1997, Georadar Investigation of Karst in a Limestone Quarry near Anna, Illinois, Society of Exploration Geophysicists International Exposition and 67th Annual Meeting, November 13 - 18, 1997, Dallas, Texas, extended abstracts, 5 pages.

- Koffi, N'guessan, Sexton, John L., Henson, Harvey, Jr., Coulibaly, Mamadou, and le Grande, Adam, Investigations of the Barnes Creek Fault Zone in southeastern Illinois, Geological Society of America 31st Annual North Central Mtg., May 1-2, 1997, University of Wisconsin, Madison, WI, Abstracts with Program, p. 52.
- Fairfield, Ryan, Sexton, John L., Henson, Harvey, Jr., Corruccini, Robert, and Pasquariello, Ray, Digital Filtering and Image Processing of Magnetic Data Collected at Two Caribbean Archaeological Sites, Geological Society of America 31st Annual North Central Mtg., May 1-2, 1997, University of Wisconsin, Madison, WI, Abstracts with Program, p. 52.
- Sexton, John L., Henson, Harvey, Jr., Koffi, N'guessan, Coulibaly, M., and Dial, Paul, Shallow Seismic Reflection and Georadar Surveys for Active Tectonic Studies in the New Madrid Seismic Zone (USA), 29th General Assembly of IASSPEI, August 18-29, 1997, Thessalonika, Greece, Abstracts with Program, page 106.
- Bodziak, R.M., Sexton, J.L., LeGrande, A.C., Ananthnaryan, S., and Tabor, E.C., 1999, A Comparative Study of Several Seismic Source Types Across the Maunie Fault in the Wabash Valley Seismic Zone, Transactions of the Illinois State Academy of Science, v.90, p23.
- Bodziak, R.M., Sexton, J.L., Ananthnaryan, S., and LeGrande, A.C., 1999, Seismic Reflection Studies in the Wabash Valley Seismic Zone, Abstracts for the Geological Society of America North Central Section Meeting, v.31, no.5, p.67, Champaign, IL.
- Sexton, J.L., Bodziak, R., LeGrande, A., and Ananthnaryan, S., Neotectonics of the Wabash Valley Seismic Zone, Invited paper presented at the Conference on Earthquake Hazard Awareness for the Wabash Valley Seismic Zone, September 2, 1999, Vincennes, IN.
- Sexton, John L., Coulibaly, M., and Bodziak, Robert, 2002, Coincident Georadar and Shallow Seismic Reflection Profiles over Faults in the New Madrid and Wabash Valley Seismic Zones, Poster presentation and abstract for Annual meeting of The Seismological Society of America, April 17-19, 2002, Victoria, British Columbia, Canada. Abstract in Seismological Research Letters, V.73, no.2, April, 2002, p230.
- Sexton, John L., Smith III, Milton, and Bodziak, Robert, 2002, A Geological and Geophysical Study of the Maunie Fault in the Wabash Valley Seismic Zone, Presentation and abstract, AAPG (with SEG, EAEG, EPEX, EGS) Cairo 2002 International Conference, October 27-30, 2002, Cairo, Egypt, Program with abstracts.
- Sexton, John L., Lake, M.A., Mueller, S.E., McClain, J., Carpenter, P.J., and Baldwin, J.H., 2003, Georadar Studies of the Farrenburg and Commerce Geophysical Lineaments in the New Madrid Seismic Zone, Poster presentation and abstract for the 2003 annual Eastern Section of the Seismological Society of America, October 19-21, 2003, University of Toronto, Toronto, Canada, Abstract published in Proceedings of the meeting.
- Lake, M.A. and John L. Sexton, 2003, Georadar Studies in the New Madrid Seismic Zone, Poster presentation and abstract for the 2003 6th Annual AAPG/SEG Student Expo, October 4-5, 2003, Houston, Tx.

- Lake, Marshall A., Sexton, John L., Mueller, Sarah E., McClain, Jason, Baldwin, John N., Carpenter, Phillip J., and Harris, James B., 2004, Georadar Profile Studies of Quaternary Deformation Associated with the Farrenburg and Commerce Geophysical Lineaments in the New Madrid Seismic Zone, Oral presentation and abstract for 2004 annual meeting of the North Central Section of the Geological Society of America, April 2-4, St. Louis, Mo. Geological Society of America Abstracts with Program, V. 36, No. 3, p48.
- Baldwin, John N., Witter, Robert C., Vaughn, James D., Harris, James B., Sexton, John L., Lake, Marshall A., and Forman, Steven L., 2004, Quaternary Deformation Associated with the Commerce Geophysical Lineament, Holly Ridge, Idalia, Missouri, Oral presentation and abstract for the 2004 annual meeting of the North Central Section of the Geological Society of America, April 2-4, St. Louis, Mo. Geological Society of America Abstracts with Program V. 36, No. 3 p47.
- Lake, Marshall A. and John L. Sexton, 2004, Georadar Profile Studies of Quaternary Deformation Associated with the North and South Farrenburg and Commerce Geophysical Lineaments in the New Madrid Seismic Zone, 2004 7th Annual AAPG/SEG Student Expo, Norman Oklahoma, April 22-24, 2004. Program with abstracts.
- Mueller, S. E., Sexton, J. L., McClain, J. P., Silverman, M., Two Dimensional Seismic Reflection Modeling of Small-Offset and Flexural Faulting Associated with the Rough Creek Fault Zone in Western Kentucky, AAPG/SEG Student Expo Abstracts, Houston, Texas, October 2005.
- McClain, J. P., Sexton, J. L., Mueller, S. E., Silverman, M., Correlation of Seismic Reflection Data with Synthetic Seismograms from Sonic, Density, & Resistivity Logs in Western Kentucky, AAPG/SEG Student Expo Abstracts, Houston, Texas, October 2000
- Sexton, J. L., Smith, M., Mueller, S. E., McClain, J. P., A Geophysical Study of the Maunie Fault in the Wabash Valley Fault Zone, SSA Eastern Section, University of Memphis, Memphis, Tn, Annual Meeting Abstracts with Programs, Vol. 77, Pg. 9. 2005.
- Mueller, S. E., Sexton, J. L., McClain, J. P., Silverman, M., Two Dimensional Seismic Reflection Modeling of Small-Offset and Flexural Faulting Associated with the Rough Creek Fault Zone in Western Kentucky, AAPG/SEG Student Expo Abstracts, Houston, Texas, October 2005.
- McClain, J. P., Sexton, J. L., Mueller, S. E., Silverman, M., Synthetic Seismograms from Sonic, Density & Resistivity Logs for the Illinois Basin in Western Kentucky, Grand Junction Colorado, GSA Rocky Mountain Section Abstracts with programs, Vol. 37, No. 6, Pg. 4, April 2005.
- Mueller, S. E., Sexton, J. L., McClain, J. P., Silverman, M., Shallow Faulting Associated with the Rough Creek Graben in Western Kentucky, AAPG/SEG Student Expo Abstracts, University of Oklahoma, Norman, Oklahoma, March 2005.
- McClain, J. P., Sexton, J. L., Mueller, S. E., Silverman, M., Density Based Synthetic Seismograms for the Illinois Basin in Western Kentucky, AAPG/SEG Student Expo Abstracts, University of Oklahoma, Norman, Oklahoma, March 2005.

Sexton, John L., Yvonne K. Griffin and William I. Woods, Geophysical Surveying on the Southern Terrace of Cahokia's Monks Mound, Joint Meeting of the South-Central and North-Central Sections of the Geological Society of America, 41st annual meeting for each, April 11-13, 2007, University of Kansas, Lawrence, Kansas, Session No. 40, Geological Society of America Abstracts with Program, Vol. 39, No. 3, p72.

Stanfill, Alicia F., John L. Sexton, and Marc Silverman, Seismic Reflection Investigation of the Inman East Fault in the Wabash Valley Fault Zone, Joint Meeting of the South-Central and North-Central Sections of the Geological Society of America, 41st annual meeting for each, April 11-13, 2007, University of Kansas, Lawrence, Kansas, Session No. 43, Geological Society of America Abstracts with Program Vol. 39, No. 3, p77.

Smith, Dominic and J.L. Sexton, Magnetics and Electromagnetics on Monks Mound at the Cahokia World Heritage Site near St. Louis, Missouri, GSA Northcentral Regional Meeting, Evansville, In, Abstracts with Program, Vol.40 , No 5 , Pg 86 , April 23-25, 2008.

Smith, Dominic, J.L. Sexton and S. Chatterjee, Magnetics and Electromagnetics on Monks Mound at the Cahokia World Heritage Site near St. Louis, Missouri, AAPG/SEG 2008 Student Expo, Rice University, Houston, Tx , Program with Abstracts, Pg 22, October 8-9, 2008.

Chatterjee, Shibaji and John L. Sexton, Seismic Reflection and Drillhole Study of the Herald-Phillipstown Fault in the Wabash Valley, AAPG/SEG 2008 Student Expo, Rice University, Houston Tx, Program with Abstracts, pg 21, October 8-9, 2008.

Sexton, J.L., Geophysics with Applications to Petroleum Exploration, IPRB Conference on Petroleum Exploration, June, 2010 (Illinois Petroleum Resources Board) Rend Lake Conference Center.

Ranaweera, Chamila, John L. Sexton, and Cory Cantrell, Seismic Reflection Survey of a Carbonate Mudmound Adjacent to the Aden Oil Field, Illinois, AAPG/SEG 2013 Student Expo, University of Oklahoma, Norman, Oklahoma, March 15, 2013

F. Invited Lectures and Conferences:

Sexton, John L., Invited to speak at Department of Geological Sciences, University of Wisconsin -Milwaukee for March 25, 1981.

Sexton, John L., Hilberman, Fred, Three-Dimensional Seismic Reflection in Exploration and Engineering Problems (abstract) Paper presented at Fourth Annual Invitational Seminar on Engineering Uses of Geophysical Data, Sponsored by Fairfield Industries, Inc., Houston, Texas, February, 1979.

Sexton, John L., Invited to speak at Department of Geology at Indiana University - Bloomington, April 9, 1981.

Sexton, John L., High Resolution Reflection Surveying in the New Madrid Area, invited paper, Symposium on Earthquake and Related Features of the Mississippi River Valley, The University of Tennessee at Martin, April 24, 1981.

Sexton, John L., Invited paper for Symposium on Mid-Continent Tectonics. "High Resolution Seismic Reflection Surveying in the New Madrid Seismic Area", Geological Society of America Annual Meeting, November 2-6, 1981, Cincinnati, Ohio.

- Hinze, W. J., Braile, L. W. Sexton, J. L., Keller, G. R., Lidiak, E. G., Regional Seismotectonics Near the Intersection of the New Madrid Fault Zone and the 38th Parallel Lineament, Invited paper for presentation at Symposium on Earthquakes and Related Features of the Mississippi River Valley, The University of Tennessee at Martin, April 24, 1981.
- Sexton, John L., Wabash River Valley Seismic Reflection Survey, DOSECC Meeting, Champaign, IL, April 1-4, 1986. (I was invited to present the lecture before the Geophysics Interacting Committee, associated with the Illinois Basin Ultradeep Drillhole (IBUD)).
- Sexton, John L., Seismic reflection survey in the Wabash Valley, March 5, 1987, (Invited talk), Illinois Oil and Gas Association Meeting, Mt. Vernon, IL.
- Sexton, John L., Seismic reflection studies of near surface and basement faults in the New Madrid rift complex, April 15, (Invited talk), Indiana -Kentucky geological Society, Inc., Evansville, IN.
- Sexton, John L., Seismic reflection studies of rifts and coal seams, 1987, Society of Mining Engineers, (Invited talk), Evansville, IN.
- Sexton, John L., Results from seismic reflection methods for detection of reactivated structures associated with seismicity in the New Madrid seismic zone, National workshop on seismogenesis in the eastern United States, sponsored by NSF, University of Illinois at Urbana-Champaign, April 12-13, 1988. (abstract).
- Sexton, John L., Invited to participate in meeting on Rifting in the Midcontinent USA, at Bloomington, IN, September, 1989.
- Sexton, John L., Invited to participate in national workshop for Intensified Study of the New Madrid Seismic Zone, November, 1989, Memphis State University, Sponsored by USGS.
- Sexton, John L., Invited to Participate in 1989 GSA Field trip to New Madrid Seismic Zone, November, 1989.
- Sexton, John L., and Henson, Harvey, Jr., Interpretation of Seismic Reflection and Gravity Profile Data in Lake Superior, 35th International Geophysical Symposium, October 2-5, 1990, Varna, Bulgaria.
- Sexton, John L., Invited to participate in Penrose Conference on "Large Lakes and their Stratigraphic Record," Lake Tahoe, CA, September, 1990.
- Sexton, John L., Invited to give a talk at Northwestern University in January. The talk was on "Seismic Reflection Studies in the New Madrid Rift Complex," (Jan., 1991).
- Sexton, John L., Invited to present a colloquium at Department of Geology, University of Illinois on "High Resolution Seismic Reflection Studies of the Botheel Lineament-New Madrid Seismic Zone," February 14, 1992.
- Sexton, J.L. and Henson, H., New Madrid Seismic Zone Geophysical Research at Southern Illinois University at Carbondale, CUSEC Special Volume on CUSEC/FEMA Research Summit Workshop, Memphis, TN, July 29-30, 1992.
- Sexton, J.L., Du, B.Y., Henson, H. and Wang, S., Seismic Refraction Tomography Experiment for Evaluation of the Structure and Seismic Velocity of Floor Strata Beneath a Coal Pillar in an Underground Coal Mine at Coal, Energy and Environment Meeting, Ostrava, Malenovice, Czechoslovakia, Oct. 12-12, 1992.
- Sexton, J.L. and Henson, H., Seismic Reflection and Gravity Profile Models of Data from Lake Superior, at AGU Spring Meeting, May 12-16, 1992, Montreal, Canada, EOS Transactions Supplement, vol. 73, no. 14, p. 320.

Sexton, John L., presented two one hour long research lectures on the New Madrid Seismic Zone at ETH in Zurich, Switzerland, in December, 1994.

Sexton, J.L., Bodziak, R.M., LeGrande A., and Ananthnaryan, S., Neotectonics of The Wabash Valley Seismic Zone, Invited paper presented at the Conference on Earthquake Hazard Awareness for the Wabash Valley Seismic Zone, September 2, 1999, Vincennes, In.

Sexton, John L. Invited paper presented at the Illinois Petroleum Resources Conference on Geology of Petroleum for Teachers, June, 2010, Rend Lake Conference Center, Geophysics with Applications to Petroleum Exploration

Sexton, John L. Invited talk presented at Illinois Geological Society Meeting April 28, 2011 in Grayville, Illinois. Geophysical Studies of the Wabash Valley Fault Zone

Kronke, Samantha, Cantrell, Cory, Smith, Richard, and Sexton, John L., Part 2 A Study of the Herald Phillipstown Fault in Wabash Valley using Drillhole, 2-D, and 3-D Seismic Reflection Data, Geological Society Meeting, April 28, 2011, in Grayville, Illinois.

VII. COMMUNITY SERVICE

Attended two workshops on earthquake preparedness in southern Illinois, 1986

Have been interviewed by local newspaper, radio, and television reporters on earthquake hazards of southern Illinois numerous times

Presented earthquake awareness lectures for high school teachers and several groups

Presented earthquake discussion to 4th grade class at Our Lady of Mt. Carmel school in Herrin, Il

The following lectures:

Lecture: Why do earthquakes occur in Southern Illinois? Science and literacy program at Elverado High School, Elkhart, Il, 2/2/91

Lecture: Earthquake mechanics and New Madrid seismicity, Earthquake and Preparedness Conference at Rend Lake Community College, Ina, IL, 11/8/90, sponsored by Illinois Department of Public Health

Lecture: The mechanics of earthquakes and New Madrid Seismicity, Earthquake Preparedness Conference for emergency Services Personnel at Southeastern Illinois College, Harrisburg, IL, 6/5/90

Lecture: Earthquake Awareness, Health and Emergency Fair at Anna, IL, 9/13/90.

Lecture: Seismicity in the southern Illinois area, Parish Park Christian Church, Marion, IL
Geology and seismology tours of the Department of Geology with exhibits and displays and demonstrations of research facilities for large (200+) and small (5+) groups ranging in ages from kindergartners to senior citizens.

Member of Board of Directors of the Marion, IL chapter of Habitat for Humanity (1998-2000)

Member of Site Selection and Building Committees for Marion chapter of Habitat for Humanity (1998-2000)

Served as Science Fair Judge for the Regional Science Fair held at SIUC and the State Science Fair held at UI in Champaign-Urbana, 2002

Served as science fair judge at SIU science fair 2004

Presented 2 hour talk on "The New Madrid Seismic Zone" to the group "Learning in Retirement" December, 2005 (invited talk)

Science Fair Judge at SIU 2006, 2007, 2008, 2009, 2010, 2012, 2013

Sexton John L. Invited paper presented at the Illinois Petroleum Resources Conference on Geology of Petroleum for Teachers, June, 2010, Rend Lake Conference Center, Geophysics with Applications to Petroleum Exploration

VIII. RESEARCH

- A. Research interests and specialties: Reflection and refraction seismology, Midcontinent tectonics, coal geophysics, archaeological geophysics, earthquake seismology, digital signal processing, high resolution seismic reflection and ground penetrating radar studies of various geological structures in the New Madrid and Wabash Valley Seismic Zones.
- B. Current Research Projects: Wabash Valley Seismic Zone seismic reflection and radar studies, Geophysical studies at the Cahokia site, southern Illinois deep seismic wide angle reflection and refraction studies, seismic reflection studies of Lake Superior, Geophysical studies of Structures associated with the New Madrid Seismic Zone
- C. Research Grants Applied For: (2004-2013)
 - Grant for seismic interpretation software from Seismic Micro Technology (SMT) \$65000 Requested and received seismic reflection data from Peabody Energy valued at approximately \$270,000 (2005-2007).
 - Requested and received 2D and 3D seismic and borehole data from Royal Drilling Company (\$1,000,000 estimated value) (2008-2013)
 - Requested and received software grant for Petra and Petra-Seis interpretation software (\$24000) (2008-2013)
 - Requested and received Funding for Computers for Research and teaching from Illinois Petroleum Resources Board (IPRB) (\$17250) (2010)
 - Requested and received VisualVoxAT (Attribute Studio) 3D seismic interpretation software from Geomodeling Technology Inc (\$44,000) (2009-2013)
 - Requested and received Vista Seismic Processing Software package (\$65,000) 2012-2013
 - Requested and received GeoSyn seismic modeling software package (\$??) (2012-2013)
 - Requested and received \$17,250 for research and teaching computer system for Applied Geophysics from IPRB (Illinois Petroleum Resources Board, (2009-2010)

D. Research Grants Received:

- NSF Undergraduate Research project (1975 with others) (\$8,000) for the detection of abandoned underground coal mines using geophysical methods
- Earthquake seismic equipment from USGS for establishment of permanent seismic station at Southern Illinois University (1976), John L. Sexton
- NSF Grant for scientific equipment to upgrade Geophysics Program at Southern Illinois University with matching funds from University (\$25,000) (1977) John L. Sexton
- High resolution seismic reflection surveying in northwestern Tennessee (\$24,000), USGS (1978) John L. Sexton, Principal investigator
- High resolution seismic reflection surveying in the New Madrid seismic area (\$72,445), USGS (1980) J. L. Sexton, principal investigator
- An integrated geophysical and geological study of the tectonic framework of the 38th parallel lineament in the vicinity of its intersection with the extension of the New Madrid Fault Zone (principal investigators, W. J. Hinze, L. W. Braile, and J. L. Sexton) (\$110,000) (1979)
- An integrated geophysical and geological study of the tectonic framework of the 38th parallel lineament in the vicinity of its intersection with the extension of the New Madrid Fault Zone (principal investigators, W. J. Hinze, L. W. Braile, and J. L. Sexton) (\$110,000) (1980)
- Wabash Valley Seismic Reflection Profiling, John L. Sexton and L. W. Braile, principal investigators, (\$256,570) (1980-1982)
- Magnetic Data Acquired by the NURE Aerial Radiometric Reconnaissance Survey Program (\$13,654) principal investigators, W. J. Hinze and J. L. Sexton (1980)
- Lithospheric Models of the North American Continents Derived from Seismic Refraction and Surface Wave Studies (\$41,855) principal investigator, L. W. Braile, Faculty associates, W. J. Hinze and J. L. Sexton
- Ground Motion Monitoring of Coal Mine Blasts, L. W. Braile and John L. Sexton, principal investigators (\$40,000) (1981)
- High resolution seismic reflection surveying in Unaweep Canyon, Western Colorado, with Prof. W. Melhorn of Purdue University (\$7,500) (1982)
- Development of a Coal Geophysics Research Program, John L. Sexton, Principal Investigator, (\$10,000) IMMRRRI (1985)
- Seismic Reflection Equipment Grant \$213,000, 1985 (Peabody Coal Company)
- Seismic Processing Software Grant, \$150,000, 1985 (Sytech, Inc.) (Mr. Clyde Lee, President)
- Magnetic tape drive equipment grant from Hewlett Packard Co. with SIU cost sharing, \$6,000, 1985
- High Resolution Seismic Reflection study of Facies transition in Roof Strata above the Herrin (No. 6) Coal in Southern Illinois (\$20,000) IMMRRRI (1986), John L. Sexton and John L. Jobling, principal investigators
- Lake Superior Seismic Experiment, (\$20,000) USGS (1986), John L. Sexton, principal investigator
- Wide angle Reflection Seismic Experiment \$17,440, Illinois Department of Energy and Natural Resources (1987)
- Deep Crustal Seismic Studies of the Illinois Basin, \$6,764, SIU ORDA (1987)
- Illinois deep seismic reflection/refraction experiment, Amoco, Inc., \$10,000 (1988).
- Feasibility of in-mine seismic studies, IMMRRRI/Peabody Coal Co./SIU Geology Dept., \$69,161 (1988).

Acquisition of Hydraulic Soil Probe, (with S. Esling, C. Kochel, L. Malinconico, D. Ritter), NSF, \$13,437, (1988).

Intrpretation and Processing of Lake Superior Seismic Reflection Data, Argonne National Laboratories, \$10,000 (1989).

Geophysical Survey at Bloomington, Illinois, Illinois Geological Survey, \$2500 (1989)

Received Halliburton Software and training (1990), valued at \$125,000

High Resolution Seismic Reflection Surveying of the Bootheel Lineament in the New Madrid Seismic Zone (1990) (USGS), \$64,000

Responses of Eolian and Associated Depositional Systems to Climate Change and Dynamic External Factors, Tunisia. National Science Foundation - Geologic Record of Global Change Program. January 1993-December, 1994. In collaboration with Dr. Gary Kocurek - University of Texas at Austin, and Dr. Michael Blum - Southern Illinois University. (\$148,787)

Grant from Coruccini foundation for archaeological geophysical (Magnetic) study in Jamaica (\$3,000) 1994

Quaternary Faulting in Southern Illinois, \$12,000, ISGS/USGS 1995

Geophysical Facilitation of Anthropological Investigation of Slave Burial, Barbados, 1995, \$6,000, (with R. Coruccini) SIUC, UPIIP Program 1995

Development of Environmental Geosciences Computer Laboratory \$26,626 from NSF and \$34,685 from SIUC (with others) (1994-1996).

Wabash Valley Quaternary Faulting, US Geological Survey (\$55,000) 1997

Seismic data grant from Vastar (data valued at approximately (\$68000), 2001- Geophysical Computer Systems from SIU Graduate Technology Fee Program (\$7750), 2003

Seismic interpretation Software from Seismic Micro Technology (SMT) (\$65000) 2004

Seismic Data grant from Peabody Energy 2005-2007 (Data valued at approximately \$270,000)

Seismic data grants from Royal Drilling Company (Calvin, Indian Creek, Jeff, Phillipstown, Aden) and related drillhole data) valued at approximately \$1,000,000. (2008-2013)

Requested and received Funding for Computers for Research and teaching from Illinois Petroleum Resources Board (IPRB) (\$17250) (2010)

Requested and received VisualVoxAT 3D (Attribute Studio) seismic interpretation software from Geomodeling Technology Inc (\$44,000) (2009-2013)

Requested and received software grant for Petra and PetraSeis valued at \$24000 (continued from 2008-2013).

Requested and received Grant for Computer System for Applied Geophysics Research \$17250, Illinois Petroleum Resources Board (IPRB), (2009-2010).

Requested and received GeoSyn seismic modeling software (2012-2013) from IHS

Requested and received Vista Seismic Processing software from Gedco, valued at \$65000, (2012-2013)

IX. BIBLIOGRAPHY

A. Published Papers

- Menendez, M. G., and J. L. Sexton, Applicability of Raizer's Method of Calculating the Degree of Ionization of a Multiply Ionized Ideal Gas: *Journal of Applied Physics*, February, 1919-1921, 1968.
- Sexton, J. L., Judson Mead and A. J. Rudman, Feasibility of Midwest Crustal Studies Based on Earthquake Surface Wave Ellipticities: *Proceedings of the Indiana Academy of Sciences*, v. 82, 341-346, 1973.
- Sexton, J. L., A. J. Rudman and Judson Mead, Ellipticity of Rayleigh Waves Recorded in the Midwest: *Bulletin of the Seismological Society of America*, v. 67, 2, 369-382, April, 1977.
- Steele, Sheila, W. C. Hood and J. L. Sexton, A Study of Spatial and Temporal Radon Variation in the New Madrid Seismic Region, 1983, in U.S. Geological Survey Professional Paper 1236-H on Seismotectonic Studies in the Central Mississippi Valley.
- Sexton, John L., and D. Malicki, A Microprocessor Engineering Seismic and Computing System, *Geoexploration*, v. 17, 111-124, 1979.
- Sexton, John L., E. P. Frey and D. Malicki, High Resolution Seismic Reflection Surveying on Reelfoot Scarp, Northwestern Tennessee, 1983, in U. S. Geological Survey Professional Paper 1236-H on Seismotectonic Studies in the Central Mississippi Valley.
- Braile, L. W., W. J. Hinze, J. L. Sexton, G. R. Keller and E. G. Lidiak, An Integrated Geophysical and Geological Study on the Tectonic Framework of the 38th Parallel Lineament in the Vicinity of its Intersection with the Extension of the New Madrid Fault Zone, NUREG/CR-1014, prepared for the U.S. Nuclear Regulatory Commission, 1979.
- Braile, L.W., Hinze, W.J., Sexton, J.L., Keller, G.R., Lidiak, E.G., An Integrated Geophysical and Geological Study of the Tectonic Framework of the 38th Parallel Lineament in the Vicinity of its Intersection with the Extension of the New Madrid Fault Zone, NUREG/CR-1878, prepared for the U.S. Nuclear Regulatory Commission, 1981.
- Braile, L.W., Hinze, W.J., Sexton, J.L., Keller, G.R., Lidiak, E.G., A Tectonic Study of the Extension of the New Madrid Fault Zone near its Intersection with the 38th Parallel Lineament, NUREG/CR-2741, prepared for the U.S. Nuclear Regulatory Commission, 1982.
- Sexton, John L., William J. Hinze, Ralph R. B. von Frese and L. W. Braile, Long-Wavelength Aeromagnetic Anomaly Map of the Conterminous U.S.A., *Geology*, v. 10, 364-369, July, 1982.
- von Frese, R. R. B., William J. Hinze, John L. Sexton and L. W. Braile, Verification of the Crustal Component in Satellite Magnetic Data, *Geophysical Research Letters*, 1982.
- Cole, Rex D. and John L. Sexton, Pleistocene Surficial Deposits of the Grand Mesa Area, Colorado, *New Mexico Geological Society Guidebook, 32nd Field Conference, Western Slope Colorado*, 121-126, 1981.
- Braile, L. W., W. J. Hinze, J. L. Sexton, G. R. Keller, and E. G. Lidiak, Seismicity and Tectonics of the Midcontinent United States, *Proceeding of the Third International Earthquake Microzonation Conference*, June, 1982.

- Braile, L. W., J. L. Sexton, K. Martindale, and C. S. Chiang, Seismic Wave Generation and Propagation from Coal Mine Blasts at the Wright Mine, Warrick County, Indiana, Final Report, 343 p., 1982.
- Sexton, John L., L. W. Braile, W. J. Hinze, and M. J. Campbell, Seismic Reflection Profiling studies of a Buried Precambrian Rift Beneath the Wabash Valley Fault Zone, *Geophysics*, v. 51, no. 3, 640-660, March, 1986.
- Sexton, John L. and Paul B. Jones, Evidence for Recurrent Faulting in the New Madrid Seismic Zone From Mini Sosie High Resolution Seismic Reflection Data, *Geophysics*, v. 51, no. 9, 1760-1788, September, 1986.
- Braile, L. W., W. J. Hinze, G. R. Keller, and E. G. Lidiak, John L. Sexton, Tectonic Development of the New Madrid Seismic Zone, *Tectonophysics*, 1986.
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- Sexton, John L. (1988), Seismic reflection line across the Wabash Valley fault system, in, *Geology and petroleum production of the Illinois Basin, Volume 2*, P. 18, Joint publication of the Illinois and Indiana-Kentucky Geological Societies, Charles W. Zuppann and Brian D. Keith, editors.
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C. Manuscripts Submitted

D. Manuscripts in Preparation

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