THESES/DISSERTATIONS DEPARTMENT OF EARTH SCIENCES THE UNIVERSITY OF MEMPHIS

Ph.D. DISSERTATIONS

Aug 2007	Csontos, R.M., 2007, Three dimensional modeling of the Reelfoot rift and New Madrid seismic zone, 92 p. PhD dissertation, University of Memphis. Advisor, R. Van Arsdale
Aug 2007	Miao, Qingwen, 2007, The local magnitude scale and seismicity of the central United States: Unpublished PhD dissertation, University of Memphis. Advisor, C. Langston
Aug 2006	Raphael, A.J., 2006, Seismogenesis and the time dependence of crustal strength: Unpublished PhD dissertation, The University of Memphis. Advisor, P. Bodin
Dec 2003	Hee-Kim, Kwang, 2003, Subsurface structure, seismicity, and their implication to tectonic evolution of Taiwan: Unpublished PhD dissertation, University of Memphis. Advisor, J. Chiu
Aug 1999	Kilb, Deborah, 1999, The influence of one earthquake on another: Unpublished Ph.D. Dissertation, University of Memphis. Advisor, J. Gomberg
May 1997	Liaw, Zen-Sen, 1997, Implementation of a seismic inversion method and its applications to a seismotectonic study of the southern region of North Island New Zealand: Unpublished PhD dissertation, University of Memphis. Advisor J. Chiu. QE511.4 L52x

Dec 1995

Li, Yong, 1995, Tectonic evolution, crustal Structure and paleoearthquake studies in the New Madrid seismic zone: Unpublished Ph.D. dissertation, University of Memphis.

Advisor E. Schweig. QE 539.2 P34 L5x

Aug 1995 Chen, Kou-Cheng, 1995, Earthquake studies using the PANDA and PANDA II seismic arrays: Unpublished Ph.D. dissertation, The University of Memphis.

Advisor J. Chiu. QE535.2 A7 C495x

Master of Science THESES

Aug 2007 Seifert, C. S., 2007, Investigation of prairie mounds in the south central United

States: Unpublished Master of Science Thesis, University of Memphis, 99 p.

Advisor, R.T. Cox

May 2007 Epting, J.E., 2007. Groundwater recharge from the Mississippi River induced by an

adjacent well field: Unpublished Master of Science Thesis, University of Memphis (http://lurbano5.memphis.edu:16080/GeoMod/index.php/Image:Epting-thesis.pdf).

Advisor: L. Urbano

May 2007 Sylwia Dominika Feibelman, 2007, Exploratory Spatial Analysis of Infant Mortality:

Sudden Infant Death Syndrome and Infant Homicides between 1999 and 2003 in

Shelby County, Tennessee: Unpublished Masters of Science Thesis,

The University of Memphis. Advisor, Esra Ozdenerol

May 2007 Elzbieta B. Bialkowska-Jelinska, 2007, Modeling West Nile Virus Infection

Using Mahalanobis Distance Statistics, Shelby County, Tennessee (2002-2004):

Unpublished Masters of Science Thesis, The University of Memphis.

Advisor, Esra Ozdenerol

May 2007 Inman, Anna, 2007, Salvaging Prehistory: Archaeological Investigations at the Slayden

Site (40HS1), Humphreys County, Tennessee

Advisor: David Dye

May 2007 Palmer, Nicole, 2007, The University of Memphis, May, 2007. Diachronic Change in

Residence Patterns at the Curry Site (22OK578), A Mississippian Period Single-

Mound Site in North Mississippi.

Advisor: Andrew Mickelson.

Dec 2006 Zivkovic, V.B., a study of the Chesapeake Bay impact structure: Post-

impact hydrothermal alteration and relation to modern groundwater chemistry.

Unpublished Masters of Science Thesis, The University of Memphis.

Advisor, D. Larsen

Aug 2006 McNeal, Derrick R., Correlation of authigenic mineralogy and depositional

environments in a lacustrine section of the Plio-Pleistocene Lake Tecopa Beds,

California. Unpublished Masters of Science Thesis,

The University of Memphis.

Advisor, D. Larsen

Aug 2006 Neilans, D., 2006. Geomorphic effects of groundwater discharge on channelized river systems, Master of Science Thesis, University of Memphis. Advisor, L. Urbano Advisor, R. Smalley Aug 2006 Davis, J.P.., 2006, Continuing evolution of the GPS array of middle America: Unpublished Master of Science Thesis, The University of Memphis. Advisor, R. Smalley Aug 2006 Bauer, L.M., 2006, Studies of historic and prehistoric earthquake-induced liquefaction features in the mezoseismic area of the 1811-1812 New Madrid earthquakes, Central United States: Unpublished Master of Science Thesis, The University of Memphis. Advisor, E. Schweig Aug 2006 Gardner, C. S., 2006, Paleoseismic Characterization of Cenozoic faulting in the southern Mississippi Embayment: Unpublished Master of Science Thesis, University of Memphis, 95 p. Advisor, R.T. Cox May 2006 Deen, T.S., 2006, Quaternary Fault Investigation of Southern Shelby County, Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 92 p. Advisor, R. VanArsdale Aug 2005 Jennifer Joyce Baldy, 2005, Climate Preferences of the Cerulean Warbler on Summer Territory: Unpublished Masters of Science Thesis, The University of Memphis. Advisor, Esra Ozdenerol Aug 2005 Ozgur Ozbek, 2005, Spatial Analysis of Low Birth Weight: The Case of Shelby County, Tennessee. Unpublished Masters of Science Thesis, The University of Memphis. Advisor, Esra Ozdenerol Aug 2005 Mukherjee, Tandrima, 2005, Remotely triggered seismicity and the M7.9 Denali Fault Earthquake, Alaska: Unpublished Master of Science Thesis, University of Memphi Advisor, P. Bodin Aug 2005 Brackman, T.B., 2005, Shakemap implementation for the upper Mississippi Valley: Unpublished Master of Science Thesis, University of Memphis. Advisor, M. Withers Aug 2005 Fasola, C.C., 2005, Reprocessing of a USGS Mississippi River Shallow Seismic Survey: Unpublished Master of Science Thesis, The University of Memphis. Advisor, C. Langston

Santillar, V.M., 2004, Deformation in the new Madrid Seismic Zone from

continuous GPS Geodesy: Unpublished Master of Science Thesis,

The University of Memphis.

Dec 2004

Advisor, R. Smalley

Aug 2004 McCallister, N.S., 2004, Distribution and Possible Fault Displacement of the Upland Gravel of Western Tennessee. Unpublished Master of Science Thesis, The University of Memphis, 66 p.
Advisor, R. VanArsdale

Aug 2004 Bresnahan, R., 2004, The origin and denudation of the Upland gravel in the upper Mississippi Embayment and its possible tectonic implications:
Unpublished Master of Science Thesis, University of Memphis, 56 p.
Advisor, R. VanArsdale

Aug 2004 Wang, Fugui, 2004, Applications of hyper spectral reflectance and Landsat-5TM imagery in assessing and mapping water quality in Reelfoot Lake, Tennessee: Unpublish Master of Science Thesis, University of Memphis.

Advisor Kung, Hsiang-Te

Aug 2004 Sjostrom, E.D., 2004, Protein energy malnutrition vulnerability in nine selected States of India: Unpublished Master of Science Thesis, University of Memphis. Advisor A. Hill

Aug 2003 Cherryhomes, J., 2003, Paleoseismology of the southeastern Reelfoot rift in western Tennessee: Unpublished Master of Science Thesis, University of Memphis, 99 p. Advisor, R.T. Cox

Aug 2002 Csontos, R. M., 2002, Evaluation of neotectonism in South Carolina by transverse topographic basin asymmetry analysis: Unpublished Master of Science Thesis, University of Memphis, 113 p.
Advisor, R.T. Cox

Aug 2002 Brubaker, S.L., 2002, Tectonics and topography of the west-central fold-and-thrust belt, Taiwan: Unpublished Master of Science Thesis, The University of Memphis. Advisor, M. Ellis

Aug 2002 Yates, R.M., 2002, Geologic setting and post-1940 evolution of the Wolf River flood plain, Shelby County, Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 74 p.
Advisor, R. VanArsdale

Aug 2002 Velasco, M.S., Investigation of Possible Quaternary Faulting beneath the Cities of Men Germantown, Shelby County, Tennessee: Unpublished Master of Science Thesis, The U of Memphis, 77 p.

Dec 2001 Galluzzi, Joseph W., 2001, Provenance and age of the Peoria Loess of the Northern

Mississippi Embayment: Unpublished Master of Science Thesis, The University of Memphis, 93 p. Advisor, D.N. Lumsden

Aug 1999

Shen, Peng, 1999, Simultaneous travel time inversion for 3D velocity model and earthquake locations: Application to the Northridge, California, 1994 mainshock aftershock sequence: Unpublished Master of Science Thesis, The University of Memphis Advisor: J. Pujol

Aug 1999

Baumeister, K.M., 2000, The Volcanic Stratigraphy of the Funeral Basalts, North of Ryan, California: Unpublished Master of Science Thesis, The University of Memphis, 51 Adviser G. Swihart. QE 3.7 B38 Oversize

Aug 1999

Gao, Fu-Chuan, 1999, High-Resolution 3-D Sedimentary Basin and Upper Crustal Structures from 3-D Inversion of PANADA Data: Unpublished Master of Science Th University of Memphis, 113 p.

Advisor: J. Chiu

Aug 1999

McClure, D.M., 1999, The Distribution, Stratigraphic Characteristics and Origin of Late Cenozoic Alluvial Deposits in Shelby, Tennessee.
Unpublished Master of Science Thesis, The University of Memphis, 113 p. Advisor, D. Larsen

Aug 1999

Broughton, J.H., 1999, Geologic and liquefaction susceptibility mapping in the Memphis NW 7.5 minute topographic quadrangle: Unpublished Master of Science Thesis, The University of Memphis, 60 p. Advisor, R. Van Arsdale

Aug 1999

Broughton, A.T., 1999, Geologic and liquefaction susceptibility mapping in the Collierville 7.5 minute topographic quadrangle: Unpublished Master of Science Thesis, The University of Memphis, 61 p. Advisor, R. Van Arsdale

May 1999

TenBrink, Andrew L., 1999, Neogene Geometry and Kinematics of Central Panama: Unpublished Master of Science Thesis, The University of Memphis. Advisor, E. Schweig

Dec 1998

Davis, Philip J. 1998, Contaminant Element Partitioning in a Metal-Rich Acid-Sulfate System at the Savannah River Site, Aiken, SC: Unpublished Master of Science Thesis, The University of Memphis. Advisor, D. Larsen QE 3.7.D38

Aug 1998

Mannikko, Norman R, 1998, Estimates of the Neogene to Modern Regional Strain for Northern Walker Lane, Basin and Range Province, USA: Unpublished Master of Science Thesis, The University of Memphis. QE 3.7 .M36

Aug 1998

Mihills, R.K., 1998, A structural analysis of the New Madrid seismic zone from structure contour maps and a three-dimensional model: Unpublished Master of Science Thesis, The University of Memphis, 82 p. Advisor, R. Van Arsdale. QE535.2.U6 M53x

Aug 1998

Patterson, Gary, 1998, Cretaceous/Tertiary Transition of the Northern Mississippi Embayment: Evidence for a Bolide Impact?: Unpublished Master of Science Thesis, The University of Memphis, 84 p. Advisor, D.N. Lumsden

May 1998

Spann, Evan W. 1998, Selected Sediment and Geochemical Properties of Quaternary and Tertiary Sediments from Five Boreholes in Shelby County, Tennessee: Implications for Contaminant Retardation Potential: Unpublished Master of Science Thesis, The University of Memphis. Advisor D. Larsen QE 471.2 .S62

May 1998

Carbino, C.B., 1998, Boron Mass Balance Changes in Hydrated Borate Deposit Clay Layers from Deposition through Early Diagenesis. Unpublished Master of Science Thesis, The University of Memphis, 79 p. Adviser G. Swihart. QE 3.7.C37

Dec 1997

Freeman, Mary Katherine, 1997, Geochemical Interactions Between Coal Pile Leachate and Alluvial Deposits near the D-area Coal Pile, Savannah River Site, South Carolina: Unpublished Master of Science Thesis, The University of Memphis.

Advisor D. Larsen. QE 3.7 .F73

May 1997

Caudle, G.C., 1997, Petrology and Geochemistry of the Knox Group in the DuPont Geohydrological Survey Well, Humphreys County, Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 118 p. Advisor, D.N. Lumsden. QE445.T2 C38

Dec 1996

Matheson, Duncan S., 1996, A laboratory study of interface separation waves: a possible explanation for weak crustal faults: Unpublished Master of Science Thesis, The University of Memphis.

Advisor P. Bodin. QE606 M36x

Aug 1996

Xiao, Yun, 1996, Boron Mass Balance in Arid Land Soil: Unpublished Master of Science Thesis, The University of Memphis. Adviser G. Swihart. S592.6.B6 X52x Aug 1996

Purser, J.L., 1996, Shallow seismic reflection survey along the southern margin of Reelfoot Lake, Tennessee, and regional implications: Unpublished Master of Science Thesis, The University of Memphis, 76 p.

Advisor, R. Van Arsdale. QE 535.2 U6 P87X

Aug 1996 Axford, P.W., 1996, A structural interpretation of the topography of the Reelfoot scarp and Lake County uplift: Unpublished Master of Science Thesis, The University of Memp Advisor, R. Van Arsdale

May 1996
Gelderloos, Daniel M., 1996, ESR as a Dating Technique for the Peoria Loess:
A Preliminary Evaluation: Unpublished Master of Science Thesis,
The University of Memphis, 58 p.
Advisor, D.N. Lumsden, co advisor – R.V. Lloyd. QE579 G44x

May 1996 Sanders, D.M., 1996, Ground Water Geochemistry and Geochemical Modeling at Operable Unit 4, Rocky Flats Plant, Golden, Colorado. Unpublished Master of Science Thesis, The University of Memphis, 79 p. Advisor, G. Swihart. QE515.5.G43 S26x

Yan, Yongxia, 1995, Aftershock characteristics and their regional variation in Taiwan: Unpublished Master of Science Thesis,
 The University of Memphis.
 Advisor Chung. QE 538.5 Y15x

Dec 1995
Gao, Hong, 1995, Source parameters of four Intraplate earthquakes from modeling of WWSSN and pre-WWSSN data with tectonic implications: Unpublished Master of Science Thesis, The University of Memphis. Advisor Chung. QE 534.2 G36x

Dec 1995 Craven John, 1995, Paleoseismic study of the New Madrid seismic zone using geological and archaeological features to constrain ages of liquefaction deposits: Unpublished Master of Science Thesis, The University of Memphis.

Advisor E. Schweig. QE 539.2 P34 C72x

Dec 1995

Llewellin, Matthew, 1995, An examination of subsidiary faulting along the central section of the San Andreas fault, California: Unpublished Master of Science Thesis, The University of Memphis.

Advisor M. Ellis. QE 606.5 U6 L54x

Dec 1995 Hu Yiqnang, 1995, Seismic wave attenuation in Germany's deep borehole area from VSP data: Unpublished Master of Science Thesis, The University of Memphis. Advisor J. Pujol. QE 538.5 H8x

Aug 1995 Lumsden, C.H., 1995, The northern extension of the Reelfoot scarp into Kentucky and

Missouri: Unpublished Master of Science Thesis, The University of Memphis, 56 p. Advisor, R. Van Arsdale. QE 606.5 U6 L85x

Aug 1995 Drouin, P.E., 1995, A paleoseismic study of Crowley's Ridge and a west bounding fault of the Reelfoot rift: Unpublished Master of Science Thesis, The University of Memphis, Advisor, R. Van Arsdale. QE 606 D76x

Hughes, Linda A., 1994, Stability of Manganese Partitioning Ratios in Dolomite as a Function of Time, Temperature, and Ambient Water Conditions: Unpublished Master of Science Thesis, The University of Memphis, 79 p.

Advisor, D.N. Lumsden, co advisor – R.V. Lloyd.

QE 391 D6 H83x

Aug 1994 Wang, Jiaquan, 1994, Source Parameters and Tectonic Implications of Several Intraplate Earthquakes in South America:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor Chung. QE 535.2 S6 W36X

May 1994 Li, Hongsheng, 1994, A Focal Mechanism Analysis of Eastern Tennessee Seismic Zone Earthquakes: Unpublished Master of Science Thesis, The University of Memphis.

Advisor A. Johnston. QE 535.2 U6 L5x

May 1994 Tao, Liu, 1994, Source Parameters and Seismotectonics of Six Intracontinental Earthquakes in Argentina and Chile: Unpublished Master of Science Thesis, The University of Memphis.

Advisor Chung. QE 535.2 S6 L58x

Dec 1993

Nicholas, David P. 1993, Shallow Seismic Reflection Survey Across the Crittenden County Fault Zone in the New Madrid Seismic Zone:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor E. Schweig. QE535.2 U6 N52X

Aug 1993

Hass, Charlotte A., 1993, An Investigation of the Seismicity in the New Madrid and Southern Appalachian Regions: Origin of Catalog Periodicities and Seismic Rate Changes: Unpublished Master of Science Thesis, The University of Memphis. Advisor M. Ellis. QE 535.2 U6 H38x

Dec 1992 McCroskey, William H. III, 1992 Sinuosity and Gradient Index as Indicators of Neotectonism: Unpublished Master of Science Thesis, The University of Memphis Advisor E. Schweig. E 511.42 M32x

Dec 1992 Reta, Maria Christina, 1992, High Resolution View of the Wadati-Benioff
Zone and Determination of the Moho Depth in San Juan, Argentina: Unpublished
Master of Science Thesis, The University of Memphis.
Advisor R. Smalley. QE 511.4 R47X

Aug 1992 Gartner, K. Mark, 1992, Quantitative Synthesis of Group B Dolomite: Unpublished Master of Science Thesis, The University of Memphis, 58 p Advisor, D.N. Lumsden, co advisor – R.V. Lloyd QE 391 D6 G37x

Aug 1992 Shen, Fen, 1992, Shallow Seismic Reflection Survey in the New Madrid Seismic Zone Bootheel Lineament: Unpublished Master of Science Thesis, The University of Memphis.

Advisor E. Schweig. TN 769, 84 S53X

Aug 1992

Baty, W. Kelly, 1992, Greisenization as Related to the Ore Deposits at the Einstein View, Silver Mines, Missouri: Unpublished Master of Science Thesis, The University of Memphis.

Adviser G. Swihart. QE 390 B37x

Apr 1992 Yung- Tun Yang, 1992, Fault Zone Geometry and Crustal Velocity
Structures in the Central New Madrid Seismic Zone Using Data from the Panda
Seismic Array: Unpublished Master of Science Thesis, The University of Memphis.
Advisor J. Chiu. QE 606.5 U6 Y36x

Ding, Zheng, 1991, An investigation of the relationship between the 1811-1812 New Madrid earthquakes and landslides on Crowley's Ridge Arkansas:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor E. Schweig. QE 535.2 U6 D56x

Dec 1991 Jensen, Bridget L., 1991, Source Parameters and Seismotectonics of Three Earthquakes in the Stable Continental Interior of Africa: Unpublished Master of Science Thesis, The University of Memphis.

Advisor Chung. QE 536 J45x

Futrell, Randall L., 1991, An Investigation of the Loess Deposits near
 Finley, Tennessee, using Amino Acid Analyses of: Unpublished Master of Science
 Thesis, The University of Memphis.
 Advisor J. Mirecki. QE579 F87x

May 1991 Leffler, Lisa M., 1991, Paleoseismic study 0 the southern New Madrid seismic one by using liquefaction features as seismic indicators: Unpublished Master of Science Thesis, The University of Memphis.

Advisor S. Wesnousky. QE 532 L43x.

May 1991 Hanson, William D., 1990, Titanium-Bearing Minerals of the Tokio Formation in Southern Howard County, Arkansas: Unpublished Master of Science Thesis, The University of Memphis.

Adviser G.H Swihart, TN799 T5 H35x.

May 1991

Morrison, James W., 1991, The Influence of Ferrous and Ferric Iron on the Formation and Mn++ Partitioning Ratio of Synthetic Dolomite: Unpublished Master of Science Thesis, The University of Memphis, 109 p. Advisor, D.N. Lumsden, co advisor – R.V. Lloyd. QE471.15 D6 M67x

Dec 1990

Morie, C. Scott, 1990, Manganese Partitioning in Synthetic Dolomites: Part II: Unpublished Master of Science Thesis, The University of Memphis, 67 p. Advisor, D.N. Lumsden, co advisor – R.V. Lloyd. QE391 D6 M67x

Dec 1990

Yao, Chenyen Paul, 1990, Short-period surface wave dispersion and shallow crustal structure of central and eastern Tennessee: Unpublished Master of Science Thesis, The University of Memphis.

Advisor J. Dorman. QE 538.5 Y36x

Dec 1990

Dennen, Allison L., 1990, An Investigation of Loess Craters in Northwestern Tennessee: Unpublished Master of Science Thesis, The University of Memphis. Advisor E. Schweig. QE 579 D46x

Aug 1990

Huang, Wei-Chuang, 1990, Crustal structure studies of the Arkansas earthquake swarm region from the analysis of converted body waves: Unpublished Master of Science Thesis, The University of Memphis.

Advisor J. Chiu. QE 538.5 H82x

Aug 1990

Lemmer, Robert E., Jr., 1990, Estimating the Relative Ages of Offset Alluvial Fans in Southern Panamint Valley, Inyo County, CA: Unpublished Master of Science Thesis, The University of Memphis.

Advisor E. Schweig. QE 508 L45x

May 1990

Chen, Qiang, 1990, Three-dimensional P- and S- wave velocity structure from inversion of local arrival times. Application to data from the Andean Foreland in San Juan, Argentina: Unpublished Master of Science Thesis, The University of Memphis. Advisor J. Pujol. QE 538.2 C43x

May 1990

Brantley, Benjamin J., 1990, Source Parameters and Seismotectonics of Six Intraplate Earthquakes Bordering the Stable Continental Margins of Eastern China and Korea: Unpublished Master of Science Thesis, The University of Memphis. Advisor Chung. QE 537 B73x Yu, Guang, 1989, Estimates of strong motion in Shelby County resulting from large earth in the New Madrid Seismic Zone: Unpublished Master of Science Thesis, The University Memphis.

Advisor Hwang. QE 539.2 S4 Y82x

Dec 1989 Marple, Ronald T, 1989, Recent Discoveries in the New Madrid Seismic Zone Using Remote Sensing: Unpublished Master of Science Thesis, The University of Memphis. Advisor E. Schweig. QE 529.2 R45 M37x

Dec 1989 Hall, Daphne A., 1989, A Petrologic and Structural Study of the Frog Mountain Sandstone Piedmont Area, Alabama: Unpublished Master of Science Thesis, The University of Memphis. QE471.15.S25 H34x

May 1989 Thomas, Frank W., 1989, Gravity and Magnetic Modeling of the Reelfoot Rift Along the Cocorp Seismic Profiles: Unpublished Master of Science. Thesis, The University of Memphis. Advisor L. Kanter. QE 606.5 T46X

May 1989 Root, Gregory L., 1989, Deep Velocity Structure of the Southern Appalachians and Tennessee Highlands from Analysis of Teleseismic P-Wave Residuals: Unpublished Master of Science Thesis, The University of Memphis. Advisor Chung. QE 621.5 R66X

May 1989 Richardson, Glen J., 1989, A Study of Potential Sources of Leakage into the Memphis and Aquifer Beneath the Davis Well Field in Memphis, Tennessee: Unpublished Master of Science Thesis, The University of Memphis. TD370 R52x, oversize

May 1989 Matthews, Joseph R., 1989, Deformational Processes and the Sequences of the Maumelle Chaotic Zone, Pulaski County, Central Arkansas: Unpublished Master of Science Thesis, The University of Memphis. Advisor D. Beiler. QE604 M37x

Dec 1988 Vlasity, Don A, 1988, A Crustal Seismicity Study in the San Juan, Argentina Region Using Digital Seismograms Collected by the Panda Array: Unpublished Master of Science Thesis, The University of Memphis. Advisor, J. Chiu. QE 535.2 A7 V52X

Dec 1988 Shipe, Lisa Gibson, 1988, Manganese Partitioning in Synthetic Dolomites: Unpublished of Science Thesis, The University of Memphis, 94 p.

Advisor, D.N. Lumsden, co advisor – R.V. Lloyd

OE391.D6 S54x

Dec 1988 Clodfelter, C., 1988, Feldspar provenance of Morrowan mudrocks in the Ouachita Mountains, Arkansas: Unpublished Master of Science Thesis, The University of Memphis, 57 p.

Advisor, D.N. Lumsden. QE391.F3 C56x

Aug 1988 Vlasity, John A., 1988, A Study of Seismicity in the Subducted Nazca Plate Beneath the San Juan, Argentina Region Using High Resolution Digital Data Collected by the Panda Array: Unpublished Master of Science Thesis, The University of Memphis. Advisor, J. Chiu. QE 541 V52X

Aug 1988 Pezzopane, Silvio K. 1988, Earthquakes and Crustal Deformation near Taiwan: Unpublished Master of Science Thesis, The University of Memphis. Advisor S. Wesnousky. QE 537.2 F6 P39X

Aug 1988

Dziak, Robert P., 1988, Source Characteristics of Earthquakes Near North Island, New Zealand and Their Tectonic Implications: Unpublished Master of Science Thesis, The University of Memphis.

Advisor S. Wesnousky. QE 537.2 N4 D94X

May 1988 Mullen, Dawn E, 1988, Generation of Synthetic Vertical Seismic Profiles for Two Dimensional Models and Applications to Data Interpretation:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor J. Pujol. QE 539.2 S4 M84x

May 1988 Dow, Ronald T, 1988, Geologic and Groundwater Parameters Affecting the Stability of the Lake Austell Landslide, Village Creek State Park, Eastern Arkansas: Unpublished Master of Science Thesis, The University of Memphis. Advisor E. Schweig. QE 599 A7 D68x

Aug 1987 Cisneros, Arturo D., 1087, Sedimentary Petrology of the Siluro-Devonian Rocks of the Northern Bighorn Mountains, Wyoming: Unpublished Master of Science Thesis, The University of Memphis:

Advisor D. Beiler. QE445.W9 C57x

Aug 1987 Chin, Byau-Heng, 1987, Crustal Structure Studies of the Arkansas Earthquake Swarm Region Using Three-Dimensional Velocity Inversion Method: Unpublished Master of Science Thesis, The University of Memphis.

Advisor J. Chiu. QE539.2 V4 C44X

Dec 1986 Bollwerk, James H., 1986, Seismic Study of the Southern Appalachians Using a Local Telemetered Seismic Array: Unpublished Master of Science Thesis, The University of Memphis. Advisor A. Johnston. OE 541 B64X **Dec 1986** Burton, Michael K., 1986, A Comparative Study of Saprolite Development on Contrasting Meta-Igneous Rocks, Alabama and Georgia Piedmont: Unpublished Master. Thesis, The University of Memphis. Advisor R. Deininger. TN948.S24 B87x Aug 1986 Everett, Sharon L., 1986, A Joint Hypocenter Determination of Earthquakes in the Southern Appalachians: Unpublished Master of Science Thesis, The University of Memphis. Advisor J. Pujol. QE 539 E93X Aug 1986 Brewer, Stephen I. 1986, Study of Crustal Structure in the Middle Mississippi Embayment Using Long-Period Synthetic Seismogram Techniques: Unpublished Master of Science Thesis, The University of Memphis. Advisor J. Chiu. QE541 B73X Aug 1985 Woods, R. Douglas Jr. 1985, Lithology of the Emuckfaw Formation, Jackson's Gap Quadrangle, Alabama: Unpublished Master of Science Thesis, The University of Memphis. OE653 W55x Aug 1985 Powers, William M., 1985, A Seismic Refraction Survey in Eastern Tennessee: Unpublished Master of Science Thesis, The University of Memphis. Advisor A. Johnston. QE 165 P68X Aug 1985 Chamberlain, Barry N., 1985, A Gravimeter Survey across the Kowaliga Block Tallapoosa County, Alabama: Unpublished Master of Science Thesis, The University of Memphis. QE82.T34 C47x May 1985 Miller, Douglas C., 1985, Stratigraphy And Tectonic Relations Of The Tensleep Sandsto (Pennsylvanian), Big Horn Mountains, Wyoming: Unpublished Master of Thesis, The University of Memphis, 104 p. Advisor, D.N. Lumsden, co-advisor D. Beiler. QE471.15.S25 M55x

Gerlock, J.G., 1985, Stratigraphy and Sedimentology of the Parkman Formation (Cretace Wyoming, Unpublished Master of Science Thesis, 112 p.

May 1985

Advisor, D.N. Lumsden, Co-advisor D. Beiler. QE471.15.S25 G47x,

May 1985 Daigle, D., 1985, Origin of Dolomite in Deep Marine Sediments of the Gulf-Caribbean a Unpublished Master of Science Thesis, The University of Memphis, 118 r Advisor, D.N. Lumsden. QE391.D6 D34x

May 1985 White, M. Douglas, 1985, The Clay Mineralogy of the Claiborne Formation in Carroll and Weakley Counties, Tennessee: Unpublished Master of Science Thesis, The University of Memphis:

Advisor, P.K. Sen Gupta. QE166 C37 W47x

Dec 1984 Gracey, G. Dennis III, 1984, Focal Mechanism and Seismic Wave Velocity Studies of the Arkansas Earthquake Swarm: Unpublished Master of Science Thesis, The University of Memphis.

Advisor A. Johnson. QE 535.2 U6 G73X

Dec 1984 English W. Jordan, 1984, Coarse Clastics of the Johns Valley Formation, South Central Arkansas: Unpublished Master of Science Thesis, The University of Memphis:Advisor D. Beiler. QE651 .E53x

Aug 1984 Morrow, John E. Jr., 1984, Petrologic, Geochemical, and Gravity Investigations of an Amphibolite in Southern Clay County, AL: Unpublished Master of Science Thesis, The University of Memphis:

Advisor, R. Deininger. QE475.A4 M67x

May 1984 Hertzing, J.J., 1984, The Clay Mineralogy of the Claiborne Formation in Henry County, Tennessee: Unpublished Master of Science Thesis,
The University of Memphis, 51 p.
Advisor, P.K. Sen Gupta. QE471 .H47x

Dec 1983 Stoddard, Paul V., 1983, A Petrographic and Geochemical Analysis of the Zana
Granite and Kowaliga Augen Gneiss: Northern Piedmont, Alabama:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor, R. Deininger. QE 438 S77X

Dec 1983

Nava, Susan J., 1983, The New Madrid Seismic Zone: A Test Case for Naturally Induced Seismicity: Unpublished Master of Science Thesis, The University of Memphis.

Advisor A. Johnson. QE 535.2 5U6 N38X OVERSIZE

Aug 1983 Metzger, Ann G., 1983, Detailed Analysis of a Major Foreshock-Main Shock

Aftershock Sequence of the 1982-83 Arkansas Earthquake Swarm: Unpublished Master. Thesis, The University of Memphis. Advisor A. Johnson. QE 539.2 54 M47X OVERSIZE

May 1983

Benecke, Daniel M., 1983, A Geothermal Gradient Analysis of the Paradox Basin, Colorado and Utah: Unpublished Master of Science Thesis, The University of Memphis. Advisor D. Beiler. QE 509 B46X OVERSIZE

May 1983 Hughes, C. Todd. 1983, Fracture Analysis in the Vicinity of the Beech Grove Lineament, East Central, Tennessee: Unpublished Master of Science Thesis, The University of Memphis. QE 165 H84X

Dec 1982 Mann, Richard, 1982, Cave Development Along Selected Areas of the Western Cumberland Plateau Escarpment: Unpublished Master of Science Thesis, The University of Memphis. Advisor, P.D. Deboo. GB 605 T4 M36X

Aug 1982 Wilkinson, Rex, 1982, A Comparative Investigation of Crowley's Ridge Gravels in Poinsett and Craighead Counties, Arkansas: Unpublished Master of Science Thesis, The University of Memphis. Advisor R. Deininger. QE 472 W54X

Aug 1982

Cash, Leon D., II, Petrographic Analysis Selected Arkansas Terrace Gravels from Crowley's Ridge Related to Their Engineering Properlies: Unpublished Master of Science Thesis, The University of Memphis.

Advisor R. Deininger. TN 939 C37X

Aug 1982 Galicki, S.J., 1982, Environment of deposition and porosity of the Terryville Sandstone (U. Jurassic): Unpublished Master of Science Thesis, The University of Memphis, 75 p.
Advisor, P.D. Deboo. QE 471.15 525 G34X

Aug 1982 Mann, Richard A., 1982, Cave development along selected areas of the western Cumberland Plateau escarpment: Unpublished Master of Science Thesis, The University of Memphis, 94 p.
Advisor, P.D. Deboo. GB 605 T4 M36X

Aug 1982 Kershaw, David, 1982, Benthonic foraminifera as environmental indicators in the Shubuta Clay, Clarke County, Mississippi, 76 p. Unpublished Master of Science Thesis, The University of Memphis, Advisor, P.D. Deboo. QE 720 K47X

Aug 1982 Kane, D.G., 1982, The Clay Mineralogy of the Zilpha Formation in Panola County, Miss Unpublished Master of Science Thesis, 50 p. Advisor, P.K. Sen Gupta. QE 389.625 K36X Aug 1982 Jeffers, W.L., 1982, The Clay Mineralogy of the Claiborne Formation in West Tennessee Unpublished Master of Science Thesis, 38 p. Advisor, P.K. Sen Gupta. QE 389.625 J43X Aug 1982 Wilkinson, R., 1982, A comparative investigation of Crowley's Ridge gravels in Poinsett Craighead Counties, AR: Unpublished Master of Science Thesis, The Uni of Memphis. Advisor, R. Lounsbury. QE 473 W54X Aug 1982 Cash. L.D. II., 1982, Petrographic analysis of selected Arkansas terrace gravels from Cro Ridge related to their engineering properties: Unpublished Master of Scien Thesis, The University of Memphis. Advisor, R. Lounsbury. TN 939 C37X May 1982 Baker, Deborah S., 1982, Statistical Study of Zircons from Selected Granitic Rocks in the Northern Alabama Piedmont: Unpublished Master of Science Thesis, The University of Memphis. Advisor, R. Deininger. QE391.Z7 B35x May 1982 Zotkiewicz, James M., 1982, Alkali-Carbonate Reactivity of Some Dolomite Aggregate in Arkansas Compared to Their Petrographic characteristics: Unpublished Master of Science Thesis, The University of Memphis. Advisor R. Lounsbury. QE 471.15 C3 Z67X May 1982 O'Rourke, Patrick E., 1982, Engineering Properties of the Smithville Formation in the Vicinity of Black Rock, Arkansas, in Relation to its petrographic Characteristics and Insoluble Residue Content: Unpublished Master of Science Thesis, The University of Memphis. Advisor R. Lounsbury. QE 445 O76X May 1982 Smythe, F.W., Jr., 1982, Variations in the Volcanic and Nonvolcanic Components of Sut North Atlantic Ice Rafted Sediment: Unpublished Master of Science Thes: University of Memphis, 116 p. Advisor, D.N. Lumsden. QE501.4 54 S69X OVERSIZE May 1982 Huey, Scott M., 1982, Dolomite Nonstoichiometry: Its Effect on the Crystal Structure of Dolomite: Unpublished Master of Science Thesis, The University of Memphis, 90 p.

Advisor, D.N. Lumsden. QE 471.15 D6 H84X

Aug 1981 Hill, Robert E. 1981, A Scanning Electron Microscope Study of Quartz Sand Grains from Some Braided Terraces and Meanders Belts of the Lower Mississippi Alluvial Valley: Unpublished Master of Science Thesis, The University of Memphis. QE 581 H54X

Aug 1981

Bob, Matthew R., 1981, Significance of Ear1h Movements Along Lake Austell in Village Creek State Park, Arkansas: Unpublished Master of Science Thesis, The University of Memphis.

Advisor A. Johnston. QE 599 A7 B62X

Aug 1981

Voisin, Nessie R., 1981 A Comparison of Depositional Environments of the Lower Tuscaloosa and Paluxy Formations (Cretaceous) of the Central Gulf Coast: Unpublished Master of Science Thesis, The University of Memphis. Advisor, P.D. Deboo. QE 685 V64X

Aug 1981 Gregory, P.G., 1981, Petrology and Paleoenvironments of the Mississippian System Exposed at Jellico, Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 82 p.
Advisor, D.N. Lumsden. QE 445 G63X

Aug 1981 Anderson, S.J., 1981, Lithology and Lithofacies of the Fort Payne Formation (Lower Mississippian) in Central Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 83 p.

Advisor, D.N. Lumsden. QE 445 A52X

Aug 1981 Stone, D.M., 1981, Paleoenvironment and Secondary Porosity of the Upper Jackfork Sandstone: Unpublished Master of Science Thesis, The University of Memphis, 84 p. Advisor, D.N. Lumsden. QE 445 S86X

Aug 1981 Reid, J.B., 1981, A Subsurface Study of the Monteagle Limestone: Northeast Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 80 p. Advisor, D.N. Lumsden. QE 471.15 M6 R44X

Aug 1981 Norman, C.D., 1981, Petrology of the Monteagle Limestone (Upper Mississippian), Nort Central Tennessee: Unpublished Master of Science Thesis, The University Memphis, 106 p.

Advisor, D.N. Lumsden. QE 445 N47X

Aug 1981 Thomas, L.A., 1981, The Petrology and Paleoenvironments of the Mississippian Big Clifty Formation in East Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 84 p.
Advisor, D.N. Lumsden. QE 445 T46X

Aug 1981 Shareghi, Ehsan A. 1981, Morphology and Characteristics of Zircons in the Elkahatchee Quartz Diorite Gneiss in Northern Alabama Piedmont: Unpublished Master of Science Thesis, The University of Memphis.

Advisor, R. Deininger. QE 445 S52X

Aug 1981

Hill, Robert E., 1981, A scanning electron microscope study of quartz sand grains from some braided terraces and meander belts of the lower Mississippi alluvial valley:

Unpublished Master of Science Thesis, The University of Memphis, 73 p. Advisor, J. Armon. QE 581 H5 4X

May 1981

Bizzio, Renato R., 1981, Mineral Exploration in the St. Francois Mountains,
Southeastern Missouri: A Case Study: Unpublished Master of Science
Thesis, The University of Memphis. Advisor, R. Deininger.
QE 131 53 B59X

Aug 1980 Horowitz, Warren L., 1980, A Petrographic and Structural Comparison of Five Traverses Across a Transition Zone of the Hackneyville Schist in Clay County, Alabama: Unpublished Master of Science Thesis, The University of Memphis. Advisor, R. Deininger. QE 82 GS H67X

Aug 1980 Williams, D.M., 1980, Geology and depositional environment of the Zilpha Formation in north central Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 58 p.
Advisor, J. Armon. QE 130 ZS W54X

Aug 1980 Reed, Phillip L., 1980, The Petrology of Western Bluff Springs Granite and the Elkahatchee Quartz Diorite Gneiss Tallapoosa and Clay Counties, Alabama: Unpublished Master of Science Thesis, The University of Memphis. Advisor, R. Deininger. QE 445 R43X

June 1980

Jones, Byron K., 1980, A Petrographic and Structural Comparison of the Hackneyville Schist and Andalusite Schist of the Wedowee Group in Clay and Tallapoosa Counties, Alabama: Unpublished Master of Science Thesis, The University of Memphis.

Advisor, R. Deininger. QE 82 J66X

Aug 1979 German. J.M., 1979, A Petrographic Study of the Cataclastic Rocks Associated with the Towaliga Fault Zone, Lee County, Alabama, and Harris and Meriwether Counties, Georgia: Unpublished Master of Science Thesis, The University of Memphis. Advisor, R. Deininger. QE 495 G47X

Aug 1979 Boyd, K.P., 1979, Depositional systems of the Hosston Formation in Bienville Parish, Louisiana: Unpublished Master of Science Thesis, The University of Memphis, 39 p. Advisor, P.D. Deboo. QE581 B58X

Aug 1979 Cooper, J.L., 1979, Petrology of the St. Louis Limestone (Mississippian), Southcentral Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 165 p.
Advisor, D.N. Lumsden. QE 471.15 LS C66X

May 1978 Chimahusky, J.S., 1978, Dolomite Nonstoichiometry, Its Effect on X-ray Diffraction Estimates of Dolomites in Carbonates and its Use as a Facies Parameter: Unpublished Master of Science Thesis, The University of Memphis, 148 p. Advisor, D.N. Lumsden. QE 471.15 06 C45X

Mazynski. R.J., 1977, The geology and petrology of the Bluff springs Pluton, Clay and Randolph Counties, Alabama: Unpublished Master of Science Thesis, The University of Memphis.

Advisor, R. Deininger. QE 44S K43X

Aug 1977 Battle, J.M., 1977, Stratigraphy and mineralogy of Pleistocene loesses in west Tennessee: Unpublished Master of Science Thesis, The University of Memphis. Advisor, R. Deininger. QE 697 B37X

Aug 1977 Crowder, William, 1977, Depositional environments of the Red Bluff Clay (Oligocene) in eastern Mississippi: Unpublished Master of Science Thesis,
The University of Memphis.
Advisor, P.D. Deboo. QE 471 C76X

Aug 1977 McCullough, James, 1977, Mineralogy and petrology of the Tallahata Formation (Middle Eocene) in southwest Alabama:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor, P.D. Deboo. QE 375 A2 M16X

Aug 1977 Moore, G.L., 1977, Diagenesis of Deep Marine Carbonates: Deep Sea Drilling Project Sites 405 and 406: Unpublished Master of Science Thesis, The University of Memphis, 64 p.
Advisor, D.N. Lumsden. GC 380.15 M65X

Aug 1977 Crockett, J.A., 1977, Carbonate Diagenesis in Holes 400A and 401, Deep Sea Drilling Project, The Bay of Biscay: Unpublished Master of Science Thesis, The University of Memphis, 58 p. Advisor, D.N. Lumsden. GC 380.15 M55X

May 1977 Cowell, R.C., 1977. Sedimentology and scanning electron microscope study of the loess and related sediments along Nonconnah Creek, Memphis, TN:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor R. Deininger. QE 579 C68X

Aug 1976

Gustavson, John B., 1976. Exploration for zinc near Wartrace. Bedford County.
A contribution to the economic geology of the state of Tennessee:
Unpublished Master of Science Thesis, The University of Memphis
Advisor R. Deininger. TN483 T4 G87X

May 1976

Irwin, W.L., 1976. The geology and petrology of the Western Bluff springs – Hot Mountain plutons: Clay and Tallapoosa Counties, Alabama:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor R. Deininger. QE 82 C52 I78X

May 1976 Schanck, Jack W., 1976. Determination of petrographic and insoluble residue content of some Tennessee limestones in relation to their engineering properties: Unpublished Master of Science Thesis, The University of Memphis. Advisor R. Lounsbury. QE 471.15 L5 S33X

Abner, H., 1975, Geochemical Analysis of Carbonate Rocks in the Upper Member of the Callville Formation (Pennsylvanian) Clark County, Nevada: Unpublished Master of Science Thesis, The University of Memphis, 63 p. Advisor, D.N. Lumsden. QE 438 A25X

Aug 1975 Proffitt, J.R., 1975, The petrography and petrogenesis of the Milltown Pluton: Chambers County Alabama: Unpublished Master of Science Thesis, The University of Memphis.

Advisor, R. Deininger. QE 445 P76X

Aug 1975

Hares, E.M., 1975, The petrography and petrogenesis of the Blake's Ferry Pluton:
Randolph County, Alabama: Unpublished Master of Science Thesis,
The University of Memphis.
Advisor, R. Deininger. QE 44S H37X

Dec 1974 Templeton, T.R., 1974, A study of geophysical methods for shallow subsurface investigations in the Memphis, TN area: Unpublished Master of Science Thesis, The University of Memphis.

Advisor, R. Lounsbury. TN209 T45X

Dec 1974 Rowland, B., 1974, Petrographic analysis of the Glendon Limestone (Oligocene) of Mississippi and Alabama: Unpublished Master of Science Thesis, The University of Memphis.

Advisor, P.B. Deboo. TN967 R68X

Aug 1974 Spencer, S.G., 1974, The geology and petrology of the Almond Pluton: Randolph County Alabama: Unpublished Master of Science Thesis, The University of Memphis. Advisor, R. Deininger. QE 82 R3 S64X

May 1974 Haw, T.C., 1974, Lithofacies and Dolomitization of the Wayne Group (Silurian) in

North Central Tennessee: Unpublished Master of Science Thesis, The University of Memphis, 110 p. Advisor, D.N. Lumsden. QE 661 H395X

Dec 1973

Sasser, W.B., 1973, Petrography of some Tennessee aggregates related to their engineering properties: Unpublished Master of Science Thesis,
The University of Memphis.
Advisor, R. Lounsbury. TA 440 S28X

May 1973 Thompson, Glenn M., 1973, Uranium Series Dating of Stalagmites from Blanchard Springs Caverns, Stone County, Arkansas: Unpublished Master of Science Thesis, The University of Memphis, 34 p.
Advisor, D.N. Lumsden. GB602 .T366x

Aug 1972 Puchstein, R.L., 1972, A study of some species of the Orthid brachiopod genus Platystrophia from the upper Ordovician of Kentucky:
Unpublished Master of Science Thesis, The University of Memphis.
Advisor, L.G. Walker. QE 797 P5 P83X

Aug 1972 Stanley, G.D., 1972, Environment and communities of the Carters Limestone (Ordovician) in Central Tennessee: Unpublished Master of Science Thesis, The University of Memphis.

Advisor, L.G. Walker. QE 662 573X

Aug 1972

Burkholder, J.F., 1972, A Subsurface and Petrologic Study of the Glen Rose
Limestones (Lower Cretaceous) of South Texas: Unpublished Master of Science Thesis,
The University of Memphis, 111 p.
Advisor, D.N. Lumsden. QE 685 B87X

May 1972 Smith, G.T., 1972, Sedimentary Petrology of the Callville Limestone and Pakoon Format (Pennsylvanian-Permian) at Iceberg Canyon, Clark County, Nevada: Mas Science Thesis, The University of Memphis, 104 p
Advisor, D.N. Lumsden. QE 138 C55 S65X

May 1972

Kalk, Thomas, 1972, The petrology of the Mitchell Dam Amphibolite; Chilton and Coosa Counties, Alabama: Unpublished Master of Science Thesis, The University of Memphis, 96 p.

Advisor, R. Deininger. QE 81 K35X

May 1970 Ledbetter, M.T., 1970, A Pennsylvanian-Permian Shelf to Craton Transition, Azure Ridge, Clark County, Nevada: Unpublished Master of Science Thesis, The University of Memphis, 96 p.
Advisor, D.N. Lumsden. QE 673 L43X