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Major specialities are Silurian-Carboniferous conodonts (taxonomy, biostratigraphy, and paleoecology), micropaleontology, and paleoecology. Other research interests include Paleozoic stratigraphy, carbonate sedimentology, biostratigraphic methodology and practice, chemostratigraphy, and sedimentary geochemistry.

EXPERIENCE

- 1995- Professor, Department of Geosciences, Texas Tech University.
- 2004-2007 Chair, Department of Geosciences, Texas Tech University
- 1996-1999: Director and primary instructor, Texas Tech Summer Geology Field Course at Salida, CO, Division of Continuing Education, Texas Tech University
- 1987-1995: Associate Professor, Department of Geosciences, Texas Tech University.
- 1981-1987: Assistant Professor, Department of Geosciences, Texas Tech University
- 1980-1981: Visiting Assistant Professor, Department of Geosciences, Texas Tech University.
- 1979-1980: National Science Foundation NATO Postdoctoral Fellow Institute für Geologie und Paläontologie der Philipps Universität, Marburg/Lahn, Federal Republic of Germany.
- 1978-1979: Visiting Assistant professor, School of Geology and Geophysics, University of Oklahoma, Norman, Oklahoma.

EDUCATION

- 1978 Ph.D. Geology. The University of Iowa, Iowa City, Iowa.
- 1975 M.S. Geology. The University of Iowa, Iowa City, Iowa.
- 1973 B.S. summa cum laude, and with Distinction in Geology and Mineralogy. The Ohio State University, Columbus, Ohio. *Phi Beta Kappa*.

PUBLICATIONS

- Heckel, P. H., **Barrick, J. E.**, and Rosscoe, S. J. (in review). Correlation of marine units in the Lower Conemaugh Group (Late Pennsylvanian, Missourian-Lower Virgilian), in north Appalachian Basin by means of conodont faunas. STRATIGRAPHY.
- Barrick, J. E.**, Lambert, L. L., Heckel, P. H., Rosscoe, S. J., and Boardman, D. R. 2011(in review). Midcontinent Pennsylvanian conodont zonation. Carboniferous of the World, Midcontinent North America. STRATIGRAPHY, Special Issue.
- Lucas, S. G, Allen, B. D., Krainer, K., **Barrick, J. E.**, Vachard, D., Schneider, J. W., DiMichele, W. A. & Bashforth, A. R. 2011 (in press). Precise age and biostratigraphic significance of the Kinney Brick Quarry Lagerstätte, Pennsylvanian of New Mexico, USA. STRATIGRAPHY.
- Leslie, S. A., **Barrick, J. E.**, Mosley, J. and Bergstrom S. M. 2011. Conodont biostratigraphy from shallow water Upper Ordovician platform rocks in the subsurface of South Texas. *In* J. C. Gutiérrez-Marco, I. Rábano, and D. García-Bellido (eds.), Ordovician of the World, PUBLICACIONES DEL INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA, CUADERNOS DEL MUSEO GEOMINERO, no. 14, p. 295-299.
- Barrick, J. E.**, Klapper, G., Kleffner, M. A. & Karlsson, H. R. 2010. Conodont biostratigraphy and stable isotope chemostratigraphy of the Lower Henryhouse Formation (Gorstian-Early Lufordian,

- Ludlow, Silurian), southern Oklahoma, U.S.A. MEMOIRS OF THE ASSOCIATION OF AUSTRALASIAN PALAEONTOLOGISTS 39:51-70.
- Barrick, J. E.**, Kleffner, M. A., Gibson, M. A., Peavey, F. N. & Karlsson, H. R. 2010. The Mid-Ludfordian Lau Event (Ludlow, Silurian) in southern Laurentia – Preliminary results. BOLLETTINO DELLA SOCIETÀ PALEONTOLOGICA ITALIANA, 49:13-33.
- Barrick, J. E.**, Qi, Yuping, and Wang, Zhihao. 2010. Latest Moscovian to earliest Gzhelian (Pennsylvanian conodont faunas from the Naqing (Nashui) section, south Guizhou, China. *In* Wang, X., Qi, Y., Groves, J. Barrick, J., Nemyrovska, T., Ueno, K., and Wang, Y., (eds.), Carboniferous carbonate succession from shallow marine to slope in southern Guizhou. FIELD EXCURSION FOR THE SCCS WORKSHOP ON GSSPS OF THE CARBONIFEROUS SYSTEM, NOVEMBER 21-30, 2010, NANJING, CHINA, 78-107.
- Cramer, B. D., Loydell, D. K., Samtleben, C., Munnecke, A., Kaljo, D., Männik, P., Martma, T., Jeppsson, L., Kleffner, M. A., **Barrick, J. E.**, Johnson, C. A., Emsbro, P., Joachimski, M. M., Bickert, T., and Saltzman, M. 2010. Testing the limits of Paleozoic chronostratigraphic correlation via high-resolution (<500k.y.) integrated conodont, graptolite, and carbon isotope biochemostratigraphy across the Llandovery-Wenlock (Silurian) boundary: Is a unified Phanerozoic time scale possible? GEOLOGICAL SOCIETY OF AMERICA BULLETIN 122:1700-1716.
- Kleffner, M. A. and **Barrick, J. E.** 2010. Telychian-early Sheinwoodian (Early Silurian) conodont-, graptolite-, chitinozoa-, and event-based chronostratigraphy developed using the graphic correlation method. MEMOIRS OF THE ASSOCIATION OF AUSTRALASIAN PALAEONTOLOGISTS 39:191-210.
- Barrick, J. E.**, Kleffner, M. A., and Karlsson, H. R. 2009. Conodont faunas and stable isotopes across the Mulde Event (late Wenlock; Silurian) in southwestern Laurentia (south-central Oklahoma and subsurface West Texas). PALEONTOGRAPHICA AMERICANA, 62:41-56
- Jacobi, D. J., **Barrick, J. E.**, Kleffner, M. A. & Karlsson, H. R. 2009. Stable isotope chemostratigraphy and conodont biostratigraphy across the Silurian-Devonian boundary in southwestern Laurentia. *In* Over D.J. (ed), Studies in Devonian Stratigraphy: Proceedings of the 2007 International Meeting of the Subcommittee on Devonian Stratigraphy and IGCP 499. PALEONTOGRAPHICA AMERICANA, 63:9-31.
- Kleffner, M. A., **Barrick, J. E.**, Ebert, J. R., Matteson, D. K., and Karlsson, H. R. 2009. Conodont biostratigraphy, $\delta^{13}\text{C}$ chemostratigraphy, and recognition of Silurian/Devonian boundary in the Cherry Valley, New York region of the Appalachian basin. PALEONTOGRAPHICA AMERICANA, 62:57-73.
- Lucas, S. G., Krainer, K. and Barrick, J. E. 2009. Pennsylvanian stratigraphy and conodont biostratigraphy in the Cerros de Amado, Socorro County, New Mexico. NEW MEXICO GEOLOGICAL SOCIETY GUIDEBOOK, 60TH FIELD CONFERENCE, GEOLOGY OF THE CHUADERA MESA REGION: 183-212.
- Roscoe, S. J., and **Barrick, J. E.** 2009. Revision of *Idiognathodus* species from the Middle-Upper Pennsylvanian boundary interval in the Midcontinent basin, North America. PALEONTOGRAPHICA AMERICANA, 62:115-147.
- Roscoe, S. J., and **Barrick, J. E.** 2009. *Idiognathodus turbatus* and other key taxa of the Moscovian-Kasimovian boundary interval in the Midcontinent Region, North America. NEWSLETTER ON CARBONIFEROUS STRATIGRAPHY. 27:21-25.
- Villa, E., A. S. Alekseev, **J. E. Barrick**, D. R. Boardman, A. V. Djenchuraeva, B. Fohrer, H. R. Forke, N. V. Goreva, P. H. Heckel, T. a N. Isakova, O. Kossovaya, L. L. Lambert, M.-L. Martínez-Chacón, C. A. Méndez, T. I. Nemyrovska, S. Remizova, E. Samankassou, L. C. Sánchez de Posada, K. Ueno, G. Wahlman, and D. M. Work. 2009. Selection of the conodont *Idiognathodus simulator* (Ellison) as the event marker for the base of the global Gzhelian Stage (Upper Pennsylvanian, Carboniferous). PROCEEDINGS OF THE XVI INTERNATIONAL CONGRESS ON THE CARBONIFEROUS AND PERMIAN; PALEOWORLD, 18:114-119.
- Barrick, J. E.**, Heckel, P. H., and Boardman, D. R. 2008. *Idiognathodus simulator* (Ellison 1941) and *I. eudoraensis* n. sp., members of a chronostratigraphically significant group of Late Pennsylvanian (late Kasimovian-early Gzhelian) conodonts with asymmetrically paired and eccentrically grooved P₁ elements. MICROPALAEONTOLOGY, 54:125-127.

- Heckel, P.H., Alekseev, A.S., **Barrick, J.E.**, Boardman, D.R., Goreva, N.V., Isakova, T.N., Nemyrovska, T.I., Ueno, K., Villa, E., and Work, D.M. 2008. Choice of Conodont *Idiognathodus simulator* [*sensu stricto*] as the Event Marker for the Base of the Global Gzhelian Stage (Upper Pennsylvanian Series, Carboniferous System): EPISODES, 31:319-325.
- Heckel, P.H., Alekseev, A. S., **Barrick, J. E.**, Boardman, D. R., Goreva, N. V., Nemyrovska, T. I., Ueno, K., Villa, E., and Work, D. M. 2007. Cyclothem (“Digital”) correlation and biostratigraphy across global Moscovian-Kasomovian-Gzhelian stage boundary interval (Middle-Upper Pennsylvanian Series) in North America and Eurasia. GEOLOGY, 35:607-610.
- Barrick, J. E.** and Männik, P. 2005. Silurian conodont biostratigraphy and palaeobiology in stratigraphic sequences. In M.A. Purnell and P. C. J. Donoghue (eds), Conodont biology and phylogeny - interpreting the fossil record. THE PALAEONTOLOGICAL ASSOCIATION, SPECIAL PAPERS IN PALAEONTOLOGY 73:103-116.
- Barrick, J. E.**, Meyer, B. D. and Ruppel, S. C., 2005, The Silurian-Devonian boundary and the Klunk event in the Frame Formation, subsurface west Texas. BULLETINS OF AMERICAN PALEONTOLOGY 369:105-122.
- Barrick, J. E.**, Lambert, L. L., Heckel, P. H. and Boardman, D. R., II, 2004, Pennsylvanian conodont zonation for Midcontinent North America. REVISTA ESPAÑOLA DE MICROPALAEONTOLOGÍA 36: 231-250.
- Heckel, P. H., Lambert, L. L., **Barrick, J. E.** and Pope, J. P., 2003, Field Trip Three: Conodont-rich Pennsylvanian dark shales of the Kansas City region, p. 53-111, in. T. M. Niemi, (ed.) Fieldtrips in the Greater Kansas City Area (Western Missouri, Northeastern Kansas and Southeastern Nebraska), North-Central Meeting, Geological Society of America, MISSOURI DEPARTMENT OF NATURAL RESOURCES SPECIAL PUBLICATION 11.
- Lambert, L. L., Heckel, P. H., and **Barrick, J. E.**, 2003, *Swadelina* new genus (Pennsylvanian Conodonta), a taxon with potential chronostratigraphic significance. MICROPALAEONTOLOGY, 49:151-158
- Ritter, S. M., **Barrick, J. E.** and Skinner, M. R., 2002, Conodont sequence biostratigraphy of the Hermosa Group (Upper Carboniferous) at Honaker Trail, Paradox Basin, Utah. JOURNAL OF PALEONTOLOGY, 76:495-517.
- Heckel, P. H., Boardman, D. R., and **Barrick, J. E.**, 2002, Desmoinesian-Missourian regional stage boundary reference position for North America, p. 710-724, in L. V. Hills, C. M. Henderson and E. W. Bamber (eds.), Carboniferous and Permian of the World: XIV International Congress on Carboniferous and Permian Proceedings. CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS MEMOIR 19.
- Lambert, L. L., **Barrick, J. E.**, and Heckel, P. H., 2001, Provisional Lower and Middle Pennsylvanian conodont zonation in Midcontinent North America. NEWSLETTER ON CARBONIFEROUS STRATIGRAPHY, 19:50-55.
- Barrick, J. E.**, and Heckel, P. H., 2000, A provisional conodont zonation for Late Pennsylvanian (late Late Carboniferous) strata in the Midcontinent region of North America. NEWSLETTER ON CARBONIFEROUS STRATIGRAPHY, 18:15-22.
- Meyer, B. D., and **Barrick, J. E.**, 2000, Conodonts from the Woodford Formation (Late Devonian) and adjacent units, subsurface West Texas and eastern New Mexico, p. 229-237, in W. D. DeMis, M. K. Nelis and R. C. Trentham (eds.), The Permian Basin: Proving ground for tomorrow’s technologies. WEST TEXAS GEOLOGICAL SOCIETY PUBLICATION 00-19.
- Barrick, J. E.**, and Lambert, L. L., 1999, Conodont taxa proposed by Jones (1941) are valid, p. 162-169, in P. H. Heckel (ed.), Guidebook, Fieldtrip #8, XIV International Congress on the Carboniferous-Permian. KANSAS GEOLOGICAL SURVEY OPEN FILE REPORT 99-27.
- Barrick, J. E.**, and Walsh, T. R., 1999, Some older North American types of *Idiognathodus* and *Streptognathodus*, p. 147-161, in P. H. Heckel (ed.), Guidebook, Fieldtrip #8, XIV International Congress on the Carboniferous-Permian. KANSAS GEOLOGICAL SURVEY OPEN FILE REPORT 99-27.
- Barrick, J. E.**, Heckel, P. H., and Boardman, D. R., 1999, Evolutionary patterns in Late Pennsylvanian *Idiognathodus* and *Streptognathodus* and implications for chronostratigraphic boundary

- characterization and recognition, p. 178-185, *in* P. H. Heckel (ed.), Guidebook, Fieldtrip #8, XIV International Congress on the Carboniferous-Permian. KANSAS GEOLOGICAL SURVEY OPEN FILE REPORT 99-27.
- Boardman, D. R., and **Barrick, J. E.**, 1999, Proposed Desmoinesian-Missourian boundary stratotype, p. 186-198, *in* P. H. Heckel (ed.), Guidebook, Fieldtrip #8, XIV International Congress on the Carboniferous-Permian. KANSAS GEOLOGICAL SURVEY OPEN FILE REPORT 99-27.
- Ritter, S. M., **Barrick, J. E.**, Wahlman, G. P., and Skinner, M. R., 1999, Stratal and faunal relationships across the Desmoinesian-Missourian boundary at Honaker Trail, Paradox basin, Utah: a sequence biostratigraphic approach, p. 199-207, *in* P. H. Heckel (ed.), Guidebook, Fieldtrip #8, XIV International Congress on the Carboniferous-Permian. KANSAS GEOLOGICAL SURVEY OPEN FILE REPORT 99-27.
- Martin, H., and **Barrick, J. E.**, 1999, Chapter F: Conodont biostratigraphy, p. 97-115, *in* G. H. Billingsley, G. H. and S. S. Beus, (eds.), Geology of the Surprise Canyon Formation of the Grand Canyon, Arizona. MUSEUM OF NORTHERN ARIZONA BULLETIN 61.
- Ruppel, S. C., James, E. W., **Barrick, J. E.**, Nowlan, G. S., and Uyeno, T. T., 1998. High-resolution record of $^{87}\text{Sr}/^{86}\text{Sr}$ for the Silurian: Evidence of eustatic control of seawater chemistry, p. 285-295, *in* E. Landing and M. E. Johnson, (eds.), Silurian cycles: Linkages of Dynamic Stratigraphy with Atmospheric and Oceanic, and Tectonic Changes -- James Hall Centennial Volume: NEW YORK STATE MUSEUM BULLETIN 491.
- Barrick, J. E.**, 1997, Wenlock (Silurian) depositional sequences, eustatic events, and biotic change on the southern shelf of North America, p. 47-65, *in* G. Klapper, M. A. Murphy, and J. A. Talent, (eds.), Silurian to Lower Carboniferous biostratigraphy, biofacies and biogeography, a volume in honor of J. Granville Johnson, his life and works. GEOLOGICAL SOCIETY OF AMERICA SPECIAL PAPER 321.
- Barrick, J. E.**, Boardman, D. R., II, and Heckel, P. H., 1996, Biostratigraphy across the Desmoinesian-Missourian stage boundary in North American Midcontinent, USA: Implications for defining the Middle-Upper Pennsylvanian series boundary. NEWSLETTERS ON STRATIGRAPHY, 34:161-175.
- Nail, R. S., **Barrick, J. E.**, and Ritter, S. M., 1996, Preliminary fusulinid and conodont biostratigraphy of the Honaker Trail Formation (late Middle Pennsylvanian-Late Pennsylvanian) in the Gibson Dome 1 and Elk Ridge 1 cores, Paradox Basin, Utah, p. 303-311, *in* Huffman, A. C., Jr., Lund, W. R., and Godwin, L. H., eds., Geology and Resources of the Paradox Basin. UTAH GEOLOGICAL ASSOCIATION GUIDEBOOK 25.
- Ruppel, S. C., James, E. W., **Barrick, J. E.**, Nowlan, G., and Uyeno, T. T., 1996, High-resolution $^{87}\text{SR}/^{86}\text{Sr}$ chemostratigraphy of the Silurian: Implications for event correlation and strontium flux. GEOLOGY, 24:831-834.
- Barrick, J. E.**, and Noble, P. J., 1995, Early Devonian conodonts from a limestone horizon in the Caballos Novaculite, Marathon Uplift, west Texas. JOURNAL OF PALEONTOLOGY, 69:1112-1122.
- Barrick, J. E.**, 1995, Biostratigraphy of uppermost Ordovician through Devonian depositional sequences in the Permian Basin, west Texas and southeastern New Mexico, p. 207-216, *in* Pausé, P. H., and Candelaria, M. P., (eds.), Carbonate facies and sequence stratigraphy. Practical application of carbonate models, PERMIAN BASIN SECTION-SEPM PUBLICATION 95-36.
- Knox, L. W., **Barrick, J. E.**, and Boardman, D. R., 1995, Pennsylvanian Ostracoda from central North America, p. 91-97, *in* J. Riha, (ed.), Ostracoda and biostratigraphy. PROCEEDINGS OF THE TWELFTH INTERNATIONAL SYMPOSIUM ON OSTRACODA, PRAGUE/CZECH REPUBLIC, 1994.
- Barrick, J. E.**, and Haywa-Branch, J. N., 1994, Conodont biostratigraphy of the Missouri Mountain Shale (Silurian-Early Devonian?) and the Arkansas Novaculite (Devonian), Black Knob Ridge, Atoka County, Oklahoma, p. 161-177, *in* Suneson, N. H., and Hemish, L. A., (eds.), Geology and resources of the eastern Ouachita Mountains frontal belt and southeastern Arkoma Basin, Oklahoma. OKLAHOMA GEOLOGICAL SURVEY GUIDEBOOK 29.
- Boardman, D. R., II, Work, D. M., Mapes, R. H., and **Barrick, J. E.**, 1994, Biostratigraphy of Middle and Upper Pennsylvanian Ammonoids (Desmoinesian-Virgilian). KANSAS GEOLOGICAL SURVEY BULLETIN 232, 121 p.

- Barrick, J. E.**, Finney, S. C., and Haywa-Branch, J. N., 1993, Revision of ages of the Fusselman, Wristen, and Thirtyone Formations (Late Ordovician-Early Devonian) in the subsurface of west Texas based on conodonts and graptolites. *TEXAS JOURNAL OF SCIENCE*, 45:231-247.
- Al-Shaieb, Z., Fritz, R. D., **Barrick, J. E.**, Medlock, P. L., and Puckette, J., 1993, Hunton Field Trip to the Arbuckle Mountains, Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY SPECIAL PUBLICATION 93-4*:183-212.
- Amsden, T. W., and **Barrick, J. E.**, 1993, Pre-Woodford subcrop map and stratigraphic sections, Anadarko Basin, Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY MAP GM-34*, 2 Plates with Appendix
- Barrick, J. E.**, and Klapper, G., 1992, Late Silurian-Early Devonian conodonts from the Hunton Group (Upper Henryhouse, Haragan, and Bois d'Arc Formations), south-central Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY BULLETIN*, 145:19-65.
- Chaplin, J. R., and **Barrick, J. E.**, (editors), 1992, Special papers in paleontology and stratigraphy: A tribute to Thomas W. Amsden. *OKLAHOMA GEOLOGICAL SURVEY BULLETIN* 145, 235 p.
- Over, D. J., Grimson, M., and **Barrick, J. E.**, 1991, Scanning electron microscope inverse imaging technique for positive image photographs of microfossil molds: *JOURNAL OF PALEONTOLOGY*, 65:1013-1014.
- Boardman, D. R., II, Heckel, P. H., **Barrick, J. E.**, Nestell, M., and Peppers, R. A., 1991, Middle-Upper Pennsylvanian chronostratigraphic boundary in the Midcontinent region of North America. *COURIER FORSCHUNGSINSTITUT SENCKENBERG*, 130:319-337.
- Barrick, J. E.**, Klapper, G., and Amsden, T. W., 1990, STOP 1 - Hunton Group (Late Ordovician-Early Devonian), p.5-9, *in* Ritter, S. M., (ed.), Early to Middle Paleozoic conodont biostratigraphy of the Arbuckle Mountains, southern Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY GUIDEBOOK 27*.
- Barrick, J. E.** and Klapper, G., 1990, STOP 2 - Henryhouse and Haragan Formations (Late Silurian-Early Devonian) and Woodford Shale (Late Devonian-Early Mississippian), p. 11-13, *in* Ritter, S. M., (ed.), Early to Middle Paleozoic conodont biostratigraphy of the Arbuckle Mountains, southern Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY GUIDEBOOK 27*.
- Barrick, J. E.**, Haywa-Branch, J. N., and Over, D. J., 1990, STOP 6 - Woodford Shale (Late Devonian-Early Mississippian), pre-Welden Shale, Welden Limestone, and basal Caney Shale (Mississippian); Hass G section, p. 23-25, *in* Ritter, S. M., (ed.), Early to Middle Paleozoic conodont biostratigraphy of the Arbuckle Mountains, southern Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY GUIDEBOOK 27*.
- Barrick, J. E.**, Klapper, G., and Amsden, T. W., 1990, Late Ordovician-Early Devonian conodont succession in the Hunton Group, Arbuckle Mountains and Anadarko Basin, Oklahoma, p. 55-62, *in* Ritter, S. M., (ed.), Early to Middle Paleozoic conodont biostratigraphy of the Arbuckle Mountains, southern Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY GUIDEBOOK 27*.
- Haywa-Branch, J. N., and **Barrick, J. E.**, 1990, Conodont biostratigraphy of the Welden Limestone (Osagean, Mississippian), Lawrence Uplift, southern Oklahoma, p. 75-84, *in* Ritter, S. M., (ed.), Early to Middle Paleozoic conodont biostratigraphy of the Arbuckle Mountains, southern Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY GUIDEBOOK 27*.
- Over, D. J., and **Barrick, J. E.**, 1990, The Devonian-Carboniferous boundary in the Woodford Shale, Lawrence Uplift, south-central Oklahoma, p. 63-73, *in* Ritter, S. M., (ed.), Early to Middle Paleozoic conodont biostratigraphy of the Arbuckle Mountains, southern Oklahoma. *OKLAHOMA GEOLOGICAL SURVEY GUIDEBOOK 27*.
- Boardman, D. R., and **Barrick, J. E.**, 1989, Glacial-eustatic control of faunal distribution in Late Pennsylvanian strata of the midcontinent - implications for biostratigraphy and chronostratigraphy, p. 79-81, *in* Franseen, E. K. and Watney, W. L., (eds.), *Sedimentary Modeling: Computer simulation of depositional sequences*: KANSAS GEOLOGICAL SURVEY, SUBSURFACE GEOLOGY SERIES 12.
- Boardman, D. R., II, **Barrick, J. E.**, Cocke, J. M., and Nestell, M. K., 1989, Middle and Late Pennsylvanian chronostratigraphic boundaries in North-Central Texas: Glacial eustatic events, biostratigraphy, and paleoecology. Guidebook with contributed papers, South-Central Section,

- Geological Society of America. TEXAS TECH UNIVERSITY STUDIES IN GEOLOGY 2, PART I: GUIDEBOOK, 115 p.
- Boardman, D. R., II, **Barrick, J. E.**, Cocke, J. M., and Nestell, M. K., (editors), 1989, Middle and Late Pennsylvanian chronostratigraphic boundaries in North-Central Texas: Glacial eustatic events, Biostratigraphy, and paleoecology. Guidebook with contributed papers, South-Central Section, Geological Society of America. TEXAS TECH UNIVERSITY STUDIES IN GEOLOGY 2, PART II: CONTRIBUTED PAPERS, 380 p.
- Barrick, J. E.**, and Boardman, D.R., II, 1989, Stratigraphic distribution of morphotypes of *Idiognathodus* and *Streptognathodus* in Missourian through lower Virgilian strata, North-Central Texas, p. 167-188, in Boardman, et al., (eds.), TEXAS TECH UNIVERSITY STUDIES IN GEOLOGY 2, PART II: CONTRIBUTED PAPERS.
- Boardman, D.R., II, **Barrick, J.E.**, Heckel, P.H., and Nestell, M.K., 1989, Upper Pennsylvanian chronostratigraphic subdivisions of the North American Midcontinent, p. 1-16, in Boardman, et al., (eds.), TEXAS TECH UNIVERSITY STUDIES IN GEOLOGY 2, PART II: CONTRIBUTED PAPERS.
- Amsden, T. W., and **Barrick, J. E.**, 1988, Late Ordovician through Early Devonian annotated correlation chart and brachiopod range charts for the southern Midcontinent Region, U.S.A., with a discussion of Silurian and Devonian conodont faunas. OKLAHOMA GEOLOGICAL SURVEY BULLETIN 143, 66 pp.
- Moore, D., and **Barrick, J. E.**, 1988, Upper Devonian-Lower Mississippian conodont biostratigraphy and depositional patterns, southwestern New Mexico. NEW MEXICO GEOLOGY, 10:25-32.
- Orth, C. J., Quintana, L. R., Gilmore, J. S., **Barrick, J. E.**, Haywa, J. N., and Spesshardt, S. A., 1988, Pt-group metals anomalies in the Lower Mississippian of Oklahoma. GEOLOGY, 16:627-630.
- Barrick, J. E.**, 1987, Conodont biostratigraphy of the Caballos Novaculite (Early Devonian-Early Mississippian), northwestern Marathon Uplift, west Texas, p. 122-135, in R. L. Austin (ed.), CONODONTS: INVESTIGATIVE TECHNIQUES AND APPLICATIONS. British Micropalaeontological Series, Ellis Horwood.
- Amsden, T. W., and **Barrick, J. E.**, 1986, Late Ordovician-Early Silurian strata in the central United States and the Hirnantian Stage. OKLAHOMA GEOLOGICAL SURVEY BULLETIN 139, 95 p.
- DeKeyser, T. W., Mullican, W. F., **Barrick, J. E.**, and Grossnicklaus, C. J., 1985, Ecofacies transect of the Lake Valley Shelf, San Andres Mountains, New Mexico, and its relation to the Early Mississippian Orogrande Basin. 1985 TRANSACTIONS, SOUTHWEST SECTION, AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS, 68-81.
- Klapper, G., and **Barrick, J. E.**, 1983, Middle Devonian (Eifelian) conodonts from the Spillville Formation in northern Iowa and southern Minnesota. JOURNAL OF PALEONTOLOGY, 57:1212-1243.
- Barrick, J. E.**, 1983, Wenlockian (Silurian) conodont biostratigraphy, biofacies, and carbonate lithofacies, Wayne Formation, central Tennessee. JOURNAL OF PALEONTOLOGY, 57:208-239.
- Amsden, T. W., Toomey, D. F., and **Barrick, J. E.**, 1980, Paleoenvironment of Fitzhugh Member of Clarita Formation (Silurian, Wenlockian), southern Oklahoma. OKLAHOMA GEOLOGICAL SURVEY CIRCULAR 83, 54 p.
- Klapper, G., and **Barrick, J. E.**, 1978, Conodont ecology: Pelagic versus benthic. LETHAIA, 11:15-23.
- Barrick, J. E.**, 1977, Multielement simple-cone conodonts from the Clarita Formation (Silurian), Arbuckle Mountains, Oklahoma. GEOLOGICA ET PALAEONTOLOGICA, 11:47-68.
- Barrick, J. E.**, and Klapper, G., 1976, Multielement Silurian (late Llandoveryan - Wenlockian) conodonts of the Clarita Formation, Arbuckle Mountains, Oklahoma, and phylogeny of *Kockelella*. GEOLOGICA ET PALAEONTOLOGICA, 10:59-100.

ABSTRACTS OF PRESENTATIONS

- Kleffner, M. A., **Barrick, J. E.**, and Karlsson, H. 2011. Recognition of the Mulde Event and Mulde positive carbon isotope excursion (Late Wenlock; Silurian) in the North American Midcontinent basins and arches region of southern Laurentia (Indiana, Ohio, Ontario). *GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS* 43 (1):74
- Heckel, P. H., **Barrick, J. E.**, and Rosscoe, S. J. 2011. Conodont-based correlation of Lower Conemaugh marine units (Late Pennsylvanian) in northern Appalachian Basin. *GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS* 43 (1):75.
- Barrick, J. E.**, Gibson, M. A., and Kleffner, M. A., 2010. Conodont biostratigraphy and stable isotope stratigraphy of the Brownsport Formation (Ludfordian, Ludlow, Silurian) west-central Tennessee. *GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS* 42 (2).
- Kleffner, M. A. and **Barrick, J. E.**, 2010. Telychian-Early Shienwoodian (Early Silurian) conodont-, graptolite-, chitinozoa-, and event-based chronostratigraphy developed using the graphic correlation method. *GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS* 42(2).
- Ritter, S. M., **Barrick, J. E.**, 2010. Pennsylvanian conodont biostratigraphy of the Paradox Basin. *GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS* 42 (2).
- Barrick, J. E.**, Kleffner, M. A., Gibson, M. A., Peavey, F. N., and Karlsson, 2009. The Lau Primo-Secundo Oceanic Event and Mid-Ludfordian Isotope Excursion (Ludlow, Silurian) in southern Laurentia. *In* Corrigan, M. G. and Piras, S. (eds.), *Time and Life in the Silurian: a multidisciplinary approach*. Abstracts. *RENDICONTI DELLA SOCIETÀ PALEONTOLOGICA ITALIANA* 3(3):267-268.
- Barrick, J. E.**, Peavey, F. N. and Kleffner, M. A. 2009. Conodont biostratigraphy and biofacies of the Henryhouse Formation (Ludlow-Pridoli, Silurian), southern Oklahoma, U.S.A. *PERMOPHILES* 53 (Supplement 1):5-6
- Corradini C., and **Barrick J. E.** 2009. The Standard Zonation concept – examples from the Silurian conodont zonation. *Paleozoic Seas Symposium, Graz. BERICHTE DES INSTITUTES FÜR ERDWISSENSCHAFTEN, KARL-FRANZENS-UNIVERSITÄT GRAZ*, 14:22-23.
- Cramer, B. D., Loydell, D. K., Samtleben, C., Munnecke, A., Kajlo, D., Männik, P., Martma, T., Jeppsson, L., Kleffner, M. A., **Barrick, J. E.**, and Saltzman, M. R. 2009. Integrated high-resolution chronostratigraphy of the Telychian and Sheinwoodian stages: conodonts, graptolites, isotopes and the future of Paleozoic chronostratigraphy. *In* Corrigan, M. G. and Piras, S. (eds.), *Time and Life in the Silurian: a multidisciplinary approach*. Abstracts. *RENDICONTI DELLA SOCIETÀ PALEONTOLOGICA ITALIANA* 3(3):277.
- Kleffner, M. A., **Barrick, J. E.**, Cramer, B. D., and Karlsson, H. R. 2009. Conodont faunas and stable isotopes across the Mulde Event (Late Silurian) in southern Laurentia. *NORTH AMERICAN PALEONTOLOGICAL CONVENTION (NAPC 2009) ABSTRACTS*, p. 162.
- Kleffner, M. A., **Barrick, J. E.** 2009. Revision of a Conodont-, Graptolite-, Chitinozoa-, and Event-Based Upper Llandovery (Telychian)-Lower Lochkovian (Silurian-Lower Devonian) Chronostratigraphy Developed Using Graphic Correlation. *PERMOPHILES* 53 (Supplement 1):26.
- Lucas, S. G., Krainer, K., and **Barrick, J. E.** 2009. Pennsylvanian stratigraphy and conodont biostratigraphy in the Cerros de Amado, Socorro County, New Mexico: *NEW MEXICO GEOLOGY*, 31:44-45
- Barrick, J. E.**, Kleffner, M. A., and Karlsson, H. 2008. The Lau Primo-Secundo oceanic event (Ludlow, Silurian) in southern Laurentia. *GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS*, 40:22.
- Rasbury, T., Hemming, G., Dickson, T., **Barrick, J. E.**, and Saller, A. 2008. Dates, rates and global correlation of the Permian of West Texas based of U-Pb carbonate ages coupled with Sr chemostratigraphy. *AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 2008 ANNUAL CONVENTION & EXHIBITION, SAN ANTONIO, TX*.
- Ritter, S. M., **Barrick, J. E.**, Lucas, S., and Krainer, K. 2008. Late Paleozoic conodont sequence biostratigraphy of western Pangea: Successes and setbacks. *GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS*, 40:38.

- Bader, J. D., **Barrick, J. E.**, and Derby, J. R. 2007. Telychian (Llandovery, Silurian) conodonts from a new stratigraphic unit in the Chimneyhill Subgroup, West Carney Hunton Field, north-central Oklahoma. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 39:62.
- Barrick, J. E.**, Jacobi D. J., Kleffner, M. A., and Karlsson, H.R. 2007. Detailed conodont biostratigraphy and carbon isotope chemostratigraphy through the Klonk Event and across the Silurian/Devonian boundary in southwestern Laurentia. SUBCOMMISSION ON DEVONIAN STRATIGRAPHY AND IGCP 499 DEVONIAN LAND SEA INTERACTION, 2007 MEETING, EUREKA, NEVADA, PROGRAM AND ABSTRACTS, 13.
- Kleffner, M. A., and **Barrick, J. E.** 2007. Revised conodont-, graptolite-, and chintonozoan-based Silurian composite developed using graphic correlation aids new calibration of current Silurian chronostratigraphy. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 39:69.
- Ritter, S. M., **Barrick, J. E.**, Lucas, S. 2007. Late Paleozoic conodont sequence stratigraphy of western North America. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 39:20.
- Roscoe, S. and **Barrick, J. E.** 2007. Revision of *Idiognathodus* species from the Middle-Upper Pennsylvanian boundary interval in the Midcontinent basin, North America. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 39:417.
- Barrick, J. E.**, Kleffner, M. A., Karlsson, H. R., and Kohl, M. 2006. Conodont faunas and stable isotope chemostratigraphy across the Homerian (Late Wenlock; Silurian) Mulde Secundo-Secundo Event in West Texas and southern Oklahoma. PROGRAMME & ABSTRACTS, INTERNATIONAL CONODONT SYMPOSIUM 2006 (ICOS 2006), Leicester, p. 16.
- Kleffner, M. A., **Barrick, J. E.**, Ebert, J. R., and Matteson, D. K., 2006, Conodont biostratigraphy, $\delta^{13}\text{C}$ chemostratigraphy, and recognition of Silurian/Devonian boundary in the Appalachian Basin at Cherry Valley, Yew York. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS. 38:146.
- Manship, L. I., Strauss, R. E., and **Barrick, J. E.**, 2006, Discrimination of Frasnian (Late Devonian) *Palmatolepis* species using multivariate analysis of platform elements. PROGRAMME & ABSTRACTS, INTERNATIONAL CONODONT SYMPOSIUM 2006 (ICOS 2006), Leicester, p. 55.
- Rasbury, E. T., Hemming, N. G., Dickson, J. A. D., **Barrick, J. E.**, and Saller, A. H., 2006, $^{87}\text{Sr}/^{86}\text{Sr}$ chemostratigraphy across the Carboniferous-Permian Boundary. 2006 Goldschmidt Conference
- Roscoe, S. J., **Barrick, J. E.**, Boardman, D. R., and Heckel, P. H. 2006. *Idiognathodus* morphotypes across the Desmoinesian-Missourian boundary in Midcontinent North America: Significance for placement and correlation of the Middle-Upper Pennsylvanian boundary. PROGRAMME & ABSTRACTS, INTERNATIONAL CONODONT SYMPOSIUM 2006 (ICOS 2006), Leicester, p. 72.
- Barrick, J. E.**, Ritter, S. M., Lucas, S., and Krainer, K., 2005, Latest Pennsylvanian to earliest Permian conodonts from the Horquilla Formation, Big Hatchet Mountains, southwestern New Mexico. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 37:37
- Roscoe, S. J., **Barrick, J. E.**, and Boardman, D. R., 2005, Conodonts of the Desmoinesian (Middle Pennsylvanian) Lost Branch Formation, Midcontinent Basin, Oklahoma and Kansas. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 37:13.
- Barrick, J. E.**, Jacobi, D., and Beville, C. E. 2004. Characterization of the Silurian/Devonian boundary in the southern United States using conodont biostratigraphy and carbon isotope chemostratigraphy. JOINT ANNUAL MEETING OF THE GEOLOGICAL ASSOCIATION OF CANADA AND THE MINERALOGICAL ASSOCIATION OF CANADA, ABSTRACTS, 29:86.
- Houck, K., Fleming, J., Guerrero, R, Heberton, A., Heimink, N., Itano, W. and **Barrick, J. E.**, 2004. Paleontology of the Bassam Park foissil beds (Pennsylvanian), San Isabel National Forest, Coloardo GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 36:413.
- Kleffner, M. A., **Barrick, J. E.**, and Tyachsen, A. 2004. Conodont-, graptolite, and chitinozoan-based Silurian composite standard developed using graphic correlation aids new calibration of current Silurian chronostratigraphy. JOINT ANNUAL MEETING OF THE GEOLOGICAL ASSOCIATION OF CANADA AND THE MINERALOGICAL ASSOCIATION OF CANADA, ABSTRACTS, 29:96
- Lucas, S. G., Krainer, K., and **Barrick, J. E.** 2004. Stratigraphy and structure: The Borrego section of the Pennsylvanian-Permian Horquilla Formation, Big Hatchet Mountains, New Mexico. NEW

- MEXICO GEOLOGICAL SOCIETY SPRING MEETING, ABSTRACTS, p. 40. (Reprinted in NEW MEXICO GEOLOGY 26:68.
- Keairns, C. E., Musgrave, B. E. and **Barrick, J. E.**, 2003, Early Pennsylvanian (Morrowan-early Atokan?) conodonts from the upper Kerber and lower Sharpsdale formations, Arkansas River Valley, central Colorado. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 35(2):5
- Lambert, L. L., Heckel, P. H. and **Barrick, J. E.**, 2003, New findings on the first Pennsylvanian conodonts described from Late Desmoinesian strata near Lexington, Missouri. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 35(2):5
- Barrick, J. E.**, Lambert, L. L., and Heckel, P. H., 2002, Pennsylvanian conodont zonation for Midcontinent North America. Eighth International Conodont Symposium in Europe, ECOS VIII, abstracts, STRATA, ser. 1, 12:74.
- Barrick, J. E.**, and Männik, P., 2002, Conodont research in a discontinuous world: stratigraphic sequences, oceanic episodes, biotic events and Silurian conodonts. Eighth International Conodont Symposium in Europe, ECOS VIII, abstracts, STRATA, ser. 1, 12:18.
- Kleffner, M. A. and **Barrick, J. E.**, 2002, Newly revised and calibrated conodont-, graptolite, and chitinozoan-based Silurian chronostratigraphy developed using the graphic correlation method. Combined North-Central and Southeast Section Meeting, GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 34(2):A-27.
- Lambert, L. L., **Barrick, J. E.**, and Heckel, P. H., 2002, Lower and Middle Pennsylvanian conodont zonation for Midcontinent North America. Combined North-Central and Southeast Section Meeting, GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 34(2):A-27.
- Leslie, S., **Barrick, J. E.**, Mosley, J. and Bergström, S. M., 2002, Conodonts from a deep core in the Upper Ordovician platform rocks of West Texas. Eighth International Conodont Symposium in Europe, ECOS VIII, abstracts, STRATA, ser. 1, 12:96.
- Männik, P., and **Barrick, J. E.**, 2002, *Walliserodus* Serpagli, 1967 in the Silurian – apparatus. taxonomy, and distribution. Eighth International Conodont Symposium in Europe, ECOS VIII, abstracts, STRATA, ser. 1, 12:42.
- Meyer, B. D., and **Barrick, J. E.**, 2002, The apparatus of Early Devonian *Icriodus* species (Conodonta) from subsurface West Texas. Combined North-Central and Southeast Section Meeting, GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 34(2):A-28.
- Walsh, T. R., and **Barrick, J. E.**, 2002, Conodonts from the Elm Creek Formation (Artinskian) of north-central Texas, USA: Fauna from a Permian intermittently restricted shallow shelf. Combined North-Central and Southeast Section Meeting, GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 34(2):26.
- Kleffner, M. A. and **Barrick, J. E.**, 2001, A conodont-, graptolite, and chitinozoa-based Silurian (upper Llandovery-Pridoli) chronostratigraphy. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 33(4):20.
- Meyer, B. D., **Barrick, J. E.**, and Ruppel, S. C., 2001, Conodonts across the Silurian-Devonian boundary and the Klonk Event in the Frame Formation, subsurface West Texas. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 33(4):21.
- Barrick, J. E.**, Alekseev, A. S., and Nemyrovska, T. N., 2000, Provincialism in *Idiognathodus* and *Streptognathodus* during the Kasimovian (Late Carboniferous). GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 32(3):11-12.
- Meyer, B. D., and **Barrick, J. E.**, 2000, Conodonts from the Woodford Formation (Late Devonian) and adjacent units, subsurface West Texas and eastern New Mexico. ABSTRACTS WITH PROGRAM, WEST TEXAS GEOLOGICAL SOCIETY FALL SYMPOSIUM, p. 19-20.
- Barrick, J. E.**, 1999, Conodont biostratigraphy and biofacies of Silurian strata of the Hunton Group and equivalent units in west Texas and eastern New Mexico, in Silurian, Devonian, and Mississippian geology and petroleum in the southern midcontinent. OKLAHOMA GEOLOGICAL SURVEY WORKSHOP, ABSTRACTS, p. 5.
- Heckel, P. H., Boardman, D. R., and **Barrick, J. E.**, 1999, Proposal for Desmoinesian-Missourian Stage boundary stratotype, a candidate for a GSSP. XIV INTERNATIONAL CONGRESS ON THE CARBONIFEROUS-PERMIAN, ABSTRACTS, p. 53.

- Meyer, B. D., and **Barrick, J. E.**, 1999, Late Middle Devonian (Givetian) to Early Mississippian (Kinderhookian) conodont faunas from the subsurface of west Texas and eastern New Mexico. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 31(1):A-30.
- Aldridge, R. A., Armstrong, H. A., **Barrick, J. E.**, Jeppsson, L., and Männik, P., 1998, Conodont extinctions and diversifications: The Silurian scene. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 30(2):1.
- Kleffner, M. A., and **Barrick, J. E.**, 1998, A revised Silurian chronostratigraphy: Conodont and graptolite chronostratigraphy and a calibrated Wenlock-Pridoli time scale. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 30(2):28.
- Lane, H. R., Heckel, P. H., Brenckle, P., Boardman, D. R., and **Barrick, J. E.**, 1998, Carboniferous conodont evolution and extinction events. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 30(2):30.
- Ritter, S. M., **Barrick, J. E.**, Heckel, P. H., and Lambert, L. L., 1998, Conodont biostratigraphy of Late Carboniferous-Early Permian depositional sequences. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 30(2):68.
- Kleffner, M. A., and **Barrick, J. E.**, 1997, *Ozarkodina sagitta* and revision of a conodont- and graptolite-based composite standard by graphic correlation. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 29(2):17-18.
- Barrick, J. E.**, Noble, Paula J., and Ruppel, S. C., 1997, Conodont biostratigraphy of Silurian and Devonian stratigraphic sequences in shelf and Ouachita facies, southern North America. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 29(2):3.
- Ruppel, S. C., James, E. W., and **Barrick, J. E.**, 1997, The record of $^{87}\text{Sr}/^{86}\text{Sr}$ change in the Silurian and Devonian: Potential for high resolution relative age dating based on conodonts. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 29(2):45.
- Barrick, J. E.**, 1996, The Silurian stratigraphic succession in the southern Midcontinent region of North America. THE JAMES HALL SYMPOSIUM: SECOND INTERNATIONAL SYMPOSIUM ON THE SILURIAN SYSTEM. PROGRAM AND ABSTRACTS, p. 27.
- Kleffner, M. A., and **Barrick, J. E.**, 1996, A revised conodont- and graptolite-based Silurian chronostratigraphy developed by graphic correlation. THE JAMES HALL SYMPOSIUM: SECOND INTERNATIONAL SYMPOSIUM ON THE SILURIAN SYSTEM. PROGRAM AND ABSTRACTS, p. 64.
- Barrick, J. E.**, 1995, Wenlock (Silurian) depositional sequences, eustatic events and biotic change on the southern shelf of North America. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 27:A177.
- Barrick, J. E.**, Boardman, D. R., and Heckel, P. H., 1995, Early Virgilian (Late Pennsylvanian) conodonts from the Haskell-Cass cycle (Douglas Group), Midcontinent North America. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 27:37.
- Nail, R. S., **Barrick, J. E.**, and Williams, M. R., 1994, Fusulinid and conodont biostratigraphy of sedimentary cycles in the Middle and Upper Pennsylvanian Honacker Trail Formation, western Paradox Basin, Utah. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 26:56.
- Ruppel, S. C., James, E. W., and **Barrick, J. E.**, 1993, High-resolution strontium isotope chemostratigraphy of the Paleozoic using conodonts. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 25:A473-A474.
- Barrick, J. E.**, Heckel, P. H., and Boardman, D. R., II, 1992, Morphologic evolution in Early Mississippian (Pennsylvanian) species of *Idiognathodus* and the origin of *Streptognathodus*. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 24:4-5.
- Nestell, M. K., Boardman, D. R., II, and **Barrick, J. E.**, 1992, The Pennsylvanian/Permian boundary, its placement in strata exposed in the Brazos and Colorado Valleys, North-central Texas. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 24:57.
- Heckel, P.H., **Barrick, J.E.**, Boardman, D.R., II, Lambert, L.L., Watney, W.L., and Weibel, C.P., 1991, Biostratigraphic correlation of eustatic cyclothem (basic Pennsylvanian sequence units) from

- Midcontinent to Texas and Illinois. AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS BULLETIN, 75:592-593.
- Lambert, L.L., Heckel, P.H., Watney, W.L., Steveson, G.M., **Barrick, J.E.**, and Boardman, D.R., II, 1991, Precision correlation of Kansas Pennsylvanian cyclothems emphasizing gamma-ray logs and conodonts in a sequence stratigraphic framework. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 75:592-593.
- Knox, L. W., **Barrick, J. E.**, and Boardman, D. R., 1991, Paleocology of Ostracoda from Carboniferous (Pennsylvanian) cyclothems of the Midcontinent of North America. PROGRAMME AND ABSTRACTS, ELEVENTH INTERNATIONAL SYMPOSIUM ON OSTRACODA, Warrnambool, Australia, p. 50.
- Noble, P. J., and **Barrick, J. E.**, 1991, A Silurian radiolarian biozonation for the lower chert and shale member of the Caballos Novaculite, Marathon Basin, west Texas U.S.A. Abstracts, EUROPEAN RADIOLARIAN SYMPOSIUM, Florence, Italy.
- Barrick, J. E.**, Boardman, D. R., II, and Heckel, P. H., 1990, Biostratigraphic recognition and correlation of the Middle-Upper Pennsylvanian boundary based on the conodonts *Idiognathodus*. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 22:A46.
- Barrick, J. E.**, Over, D. J., Landis, C. R., and Borst, W. L., 1990, Conodont fluorescence emission spectra: Potential for high resolution evaluation of organic maturation in hydrocarbon-bearing basins. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 22:1-2.
- Boardman, D. R., II, **Barrick, J. E.**, and Heckel, P. H., 1989, Proposed redefinition of the Missourian-Virgilian stage boundary (Late Pennsylvanian), Midcontinent North America. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 21:A168.
- Barrick, J. E.**, Boardman, D. R., II, 1989, Sequence in *Idiognathodus* and *Streptognathodus* (Conodonts) from Missourian and Lower Virgilian strata (Pennsylvanian), North-central Texas. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 21:3.
- Martin, H., Beus, S. S., and **Barrick, J. E.**, 1989, Conodont biostratigraphy of the Surprise Canyon Formation (Late Mississippian) in western Grand Canyon. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 21:111.
- Wright, R. P., Savage, B. A., Larouche, T. M., and **Barrick, J. E.**, 1988, The application of palynology to stratigraphic interpretation in the Marathon Orogenic Belt, Texas. ABSTRACTS, AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS.
- Barrick, J. E.**, and Haywa, J. N., 1987, Conodonts from the Missouri Mountain Shale (Silurian-Devonian?) and Lower Arkansas Novaculite (Devonian), Black Knob Ridge, Oklahoma. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 19:146.
- Orth, C. J., Gilmore, J. S., Mao, X. Y., and **Barrick, J. E.**, 1986, Pt-Group element anomalies in the Lower Mississippian of Oklahoma: Terrestrial processes. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 18:712.
- Spesshardt, S. A., and **Barrick, J. E.**, 1986, Late Devonian-Early Mississippian phosphorite-bearing shales, Arbuckle Mountain Region, Oklahoma. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 18:266.
- Barrick, J. E.**, 1985, Conodont biostratigraphy of the Caballos Novaculite (Devonian-Early Mississippian), northwest Marathon Basin, west Texas. ECOS-IV, FOURTH INTERNATIONAL CONODONT SYMPOSIUM IN EUROPE, ABSTRACTS, p. 4.
- Barrick, J. E.**, and Biggers, B., 1985, Paleoenvironmental distribution of Wenlockian (Silurian) conodonts and inarticulate brachiopods. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 17:79.
- Barrick, J. E.**, and Proctor, D. D., 1984, Conodont biostratigraphy of Middle and Late Paleozoic strata, Ouachita Facies, Marathon Basin, Texas. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 16:77.
- Barrick, J. E.**, 1981, Wenlockian (Silurian) conodont biostratigraphy and biofacies, Wayne Formation, central Tennessee. GEOLOGICAL SOCIETY OF AMERICA, ABSTRACTS WITH PROGRAMS, 13:27.

THESES SUPERVISED

M.S.

- Biggers, Barbara, 1984, Carbonate microfacies analysis of the Permian Capitan Reef-Tansill Backreef transition, Dark Canyon, New Mexico
- Brimberry, David L., 1984, Stratigraphy, carbonate petrology, and conodont biostratigraphy of the Montoya and Valmont Formations (Late Ordovician), Sacramento Mountains, New Mexico.
- Moore, Darrell, 1984, Carbonate environments and conodont biostratigraphy of Upper Devonian-Lower Mississippian strata, southwestern New Mexico.
- Owen, Susan D., 1984, Conodonts of the Gaptank Formation (Pennsylvanian), Marathon Basin, Texas. Sul Ross State University (co-chair)
- Baker, Lisa M., 1985, Sedimentology and diagenesis of the basinal facies of the Dimple Limestone, Marathon Basin, west Texas.
- Evans, David G., 1985, Conodont biostratigraphy of the Montoya Group (Late Ordovician), Mud Springs Mountains, New Mexico.
- Spesshardt, Scott A., 1985, Late Devonian-Early Mississippian phosphorite-bearing shales, Arbuckle Mountain region, south-central Oklahoma.
- Yocum, Eric, 1985, Depositional environments of the Fresnal Group (Late Pennsylvanian) at its type section, Sacramento Mountains, New Mexico.
- Zuravel, D. Lee, 1986, Biostratigraphy and paleoecology of Wenlockian (Silurian) agglutinated Foraminifera, Maddox Member, Wayne Formation, central Tennessee.
- Haywa-Branch, Jill N., 1988, Conodont biostratigraphy and carbonate petrology of the Welden Limestone (Mississippian), south-central Oklahoma.
- Siy, Susan, 1988, Geochemical and petrographic study of phosphate nodules of the Woodford Shale (Upper Devonian-Lower Mississippian) of southern Oklahoma.
- Stadelman, Steven A., 1989, Pedogenesis and geomorphology of Hanaupah Canyon alluvial fan, Death Valley, California.
- Baker, Terri, 1995, Elemental geochemistry and micropaleontology of an Upper Pennsylvanian black shale: Haskell-Cass Cycle (Douglas Group), southeastern Kansas.
- Lehman, J. T., 1997, Cluster analysis of Wenlockian (Silurian) conodonts of the central United States.
- Musgrave, Bryan, 2003, Stratigraphic and sedimentologic analysis of a Lower Pennsylvanian mixed carbonate-clastic sections in the central Colorado Trough.
- Headd, Brendan J., 2004, Microstructural analysis of Lower Ordovician Cool Creek stromatolites, Arbuckle Mountains, Oklahoma.
- Jacobi, David, 2004 (co-chair), Stable isotope chemostratigraphy across the Silurian-Devonian boundary in Oklahoma and west Texas.
- Kohl, Michael, 2004, Integrated stratigraphy and petrology of the Silurian Wink Formation (Wenlock-Ludlow), Howard County, Texas.
- Roscoe, S., 2005, Conodonts of the Desmoinesian (Middle Pennsylvanian) Lost Branch Formation, Oklahoma and Kansas
- Bader, J. 2007, Late Llandovery (Silurian) conodonts from the "upper" Cochrane Formation in subsurface Lincoln County, Oklahoma.

Ph.D.

- Over, D.J., 1990, Conodont biostratigraphy of the Woodford Shale (Late Devonian-Early Carboniferous) in the Arbuckle Mountains, south-central Oklahoma.
- Boardman, D.R., II, 1990, Biostratigraphy of Middle and Late Pennsylvanian (Desmoinesian-Virgilian) ammonoids.
- Proctor, D. D., 1991, Conodont fauna of the Dimple Limestone (late Morrowan-Early Atokan, Early Pennsylvanian) in the Marathon Basin, Texas.
- Teo, Wee Seng, 1991, Elemental geochemistry of shales in Pennsylvanian cyclothems, Midcontinent North America.
- Nail, R. S., 1996, Middle-Late Pennsylvanian fusulinid faunas from Midcontinent North America and the Paradox Basin, Utah and Colorado.

- Wernlund, R. J., 1996, Taxonomy, distribution, and paleoecology of holothurian (Echinodermata) sclerites in Upper Pennsylvanian cyclothem shales, north-central Texas and south-central Kansas.
- Keairns, Carter, 2002, Applications of Conodonts in Resolving Pennsylvanian-Permian Stratigraphic Problems in North-Central Texas, New Mexico, Colorado, and Kansas.
- Meyer, Beverly, 2002, Conodont biostratigraphy of Devonian strata of West Texas and eastern New Mexico and the apparatus of Early Devonian *Icriodus* species.
- Walsh, Tim, 2002, Permian foramol carbonates from a variable salinity shelf environment: the Elm Creek Formation (Artinskian), of North-central Texas.
- Mann, Lori, 2008, Applications of GIS techniques in the analysis of complex shapes in ammonoids and conodonts.
- Roscoe, Steve, 2009, Revision of Missourian (Late Pennsylvanian) conodonts, Midcontinent North America.

CURRENT GRADUATE STUDENT RESEARCH

M. S.

Proske, Ann. Conodont biostratigraphy of Mississippian strata, San Andres Mountains, New Mexico.

Ph.D.

Peavey, F. Nicolle. Revision of late Silurian ozarkodinid conodonts, southern North America..

GRANTS and CONTRACTS

- Collaborative Research: Integrated paleoceanographic analysis of the Late Paleozoic Midcontinent Seaway. National Science Foundation, Geology and Paleontology: \$108,000; 6/2011-5/2014.
(Collaborators: Achim D. Herrmann and Ariel Anbar, Arizona State University, Bernd J. Haupt, Pennsylvania State University, and Thomas Algeo, University of Cincinnati)
- Late Carboniferous conodont biostratigraphy and chronostratigraphic boundaries in South China. Visiting Scholar at Nanjing Institute of Geology of Palaeontology, Nanjing, China. National Science Foundation of China and Nanjing Institute of Geology of Palaeontology. 10/2010-12/2010 and 5/2011.
- Conodont biostratigraphy of the "Artinskian Shale Interval" (Permian), subsurface Black Sea, ConocoPhillips, \$10,500; 1/2008-5/2009
- Conodont biostratigraphy - Paleozoic strata in the Great Basin. Biostratigraphy.com, Dallas, Texas. Multiple projects, \$5,00 to 10,000 per year (2000-present)
- Collaborative Research: Late Wenlock-Ludlow (Silurian) oceanic events and episodes, southern Laurentia. National Science Foundation, Geology and Paleontology: \$166,109; 8/2005-7/2009.
(Collaborator: Mark Kleffner, The Ohio State University).
- Conodont characterization of proposed Carboniferous Middle-Upper Pennsylvanian Series boundary. NATO Cooperative Science & Technology Sub-Programme: Expert Visit Grant (Moscow, Russia), \$2100; 5/2003-6/2003
- Biostratigraphy of Silurian dolostones, eastern Utah and eastern Nevada. Peter Sheehan, Milwaukee Public Museum, Milwaukee, Wisconsin. Contract work for NSF project; \$4000; 2001-2002.
- Evaluation of proposed Silurian global episodes and events using conodonts. With Peep Männik, Geological Institute, Tallinn, Estonia. National Research Council Twinning Program. \$15,000, 2000-2001.
- Conodont-based biostratigraphic framework for Late Carboniferous strata of the Paradox Basin, western USA. Subcontract; Petroleum Research Fund - American Chemical Society (PI - S.M. Ritter, Brigham Young University) \$10,000; 5/95-8/97.
- Biostratigraphy of Silurian-Lower Devonian strata, west Texas and eastern New Mexico. Petroleum Research Fund - American Chemical Society. \$39,800; 7/91-8/94.
- Biostratigraphy of Middle-Upper Pennsylvanian boundary, Kansas and northern Oklahoma (with D.R. Boardman). Kansas Geological Survey. \$1070, 8/89-7/90.

- Conodont biostratigraphy and depositional environments, Caddo Limestone (Pennsylvanian), Stephens County, Texas. Sun Production Co. \$2000; 6/88-12/89.
- Conodont biostratigraphy of the novaculite facies (Devonian-Mississippian), Ouachita Facies, southern United States. Petroleum Research Fund - American Chemical Society. \$33,600; 9/85-9/87.
- Stratigraphy, paleontology, and petrography of the Fusselman Dolomite (Silurian) in the Sacramento Mountains and the Silver City area, New Mexico. New Mexico Bureau of Mines and Mineral Resources. \$3,100; 5/85-9/86.
- Conodont biostratigraphy of Paleozoic strata in the Mud Springs Mountains and adjacent wells, Sierra County, New Mexico. Texaco, Inc. \$3,300; 1/84-8/85.
- Devonian and Mississippian depositional patterns, southwestern New Mexico (with D. Moore). Marathon Oil Company. \$3,000; 1/83-6/84.
- Conodont biostratigraphy of Middle and Upper Paleozoic strata of the Ouachita Facies, Marathon Region, southwest Texas. Petroleum Research Fund - American Chemical Society. \$10,000; 9/82-12/83.
- Regional study of conodont biostratigraphy and C.A.I. values, Paleozoic strata, southwestern New Mexico. Getty Oil Company. \$4,100; 1/82-6/83.
- Conodont biostratigraphy of Woodford Shale, Arbuckle Mountains, southern Oklahoma. New Faculty Grant, College of Arts & Sciences, Texas Tech Univ. \$1,500; 9/81-8/82.
- Conodont biostratigraphy of Mississippian strata, San Andres Mountains, New Mexico. Amoco Production Company (with T. DeKeyser). \$4,500; 9/81-8/82.

PROFESSIONAL AFFILIATIONS

International Union of Geological Sciences (IUGS)

Subcommission on Carboniferous Stratigraphy, Corresponding Member 1996-2008; Voting Member 2008-present.

Working Group to establish a GSSP close to the Moscovian/Kasimovian boundary (base of the Upper Pennsylvanian). 1996-present.

Working Group to review and revise the position of the Devonian-Carboniferous boundary. 2008-present.

American Association for the Advancement of Science

Geological Society of America

(Committee on Continuing Education 1999-2002)

(Management Board, South-Central-Section 1995-1998)

(Chair, Technical Sessions, 1999 South-Central Section meeting)

Society of Economic Paleontologists and Mineralogists

Paleontological Society

(Member of Council, 1996-1997)

(Chair, South-Central section, 1996-1997)

Palaeontological Association (Great Britain)

International Palaeontological Association

Paleontological Research Institute

Pander Society (conodont workers)

(North American Coordinator, 1999-2004)

(Symposium organizer, 1999, 2000, 2001, 2003)

Sigma Xi (president, Texas Tech chapter 1999-2000; vice-president 2005-2007)

Texas Academy of Science

SERVICE

UNIVERSITY SERVICE

Admissions and Retentions Committee, 1984-1987; chairman, 1986-1987
 Student Financial Aids/Scholarship Committee 1987-1990; chairman, 1989-1990
 Recruitment, Admissions, and Retention Committee, 1996-1999
 Provost-appointed Committee on Imaging Facilities, 1997-2001

GRADUATE SCHOOL SERVICE

Urbanovsky Endowed Fellowship Core Committee, 2002
 Graduate School Representative, dissertation defenses, 1985-2006
 Multidisciplinary Science Degree Committee, 1998-2004
 Committee to review Graduate Programs in Department of Petroleum Engineering (2009-2010)

COLLEGE SERVICE

Reviewer of proposals, College of Arts and Sciences, Institute for University Organized Research Fund
 1982, 1988, 1989
 Arts and Sciences Committee on Academic Programs, 1996-1999
 General Studies Advisory Committee, 2001-2003
 Chair, Search Committee, Chair of Department of Petroleum Engineering (2005)
 Arts & Sciences Scholarship Committee 2009-present

DEPARTMENTAL SERVICE

Undergraduate Advisor -B.S. Geology 1980-1982; 1988-1993; 1998-2001
 B.A. Geology and Geology minor 1985-1993; 1998-2001
 Earth science teacher certification 1985-2000
 Graduate Advisor - Geology 1982-1985.
 Undergraduate Curriculum Committee 1980-1981
 Graduate Admissions Committee 1982-1992; chairman, 1982-1985
 Scholarship Committee 1983-2004; chairman, 1985-1993; 1999-2002.
 Environmental geology planning committee , chairman, 1989-1990
 Faculty search committees: 1983, 1984, 1985, 2004.
 Faculty sponsor, Sigma Gamma Epsilon, the Earth Science Honorary Society, 1988-2000.
 Post-Tenure Review Policy Committee, 1999-2000
 Promotion and Tenure Revision Committee, 2009- present.

EDITORIAL AND REVIEW ACTIVITIES

Reviewer of research proposals
 National Sciences Foundation (Stratigraphy & Paleontology)
 Petroleum Research Fund, American Chemical Society
 National Environmental Research Council, Great Britain
 Reviewer of publications
 BULLETIN OF THE GEOLOGICAL SOCIETY OF AMERICA
 BULLETINS OF AMERICAN PALEONTOLOGY
 CANADIAN JOURNAL OF EARTH SCIENCE
 GEOBIOS
 JOURNAL OF PALEONTOLOGY
 LETHAIA
 MICROPALEONTOLOGY
 NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS
 OHIO JOURNAL OF SCIENCE
 OKLAHOMA GEOLOGICAL SURVEY
 THE PALAEOONTOLOGICAL ASSOCIATION (UK), SPECIAL PAPERS
 PALAEOECOLOGY, PALAEOGEOGRAPHY, PALAEOCLIMATOLOGY

PALAEOWORLD
PROCEEDINGS OF THE ESTONIAN ACADEMY OF SCIENCE- GEOLOGY
REVISTA BRASILEIRA DE PALEONTOLOGIA.
REVISTA ESPANOLA MICROPALAEONTOLOGIA
RIVISTA ITALIANA DI PALEONTOLOGICA E STRATIGRAFIA
ROYAL SOCIETY OF EDINBURGH
SENCKENBERG MUSEUM, FRANKFURT A. M., GERMANY
STRATIGRAPHY
TEXAS JOURNAL OF SCIENCE