

Travis Roach, Ph.D.

Email: TRoach2@uco.edu

Mail: 100 North University Drive; Edmond, OK 73034

Phone: (405) 974-2934

Web: <http://www.travisroach.com>

EDUCATION

- Ph. D. in Economics, *Texas Tech University* August 2014
Dissertation: Carbon Dioxide Emissions in the United States: Prospects and Policies
Primary Fields: Environmental & Resource Economics, Industrial Organization & Game Theory, Labor Economics
Secondary: Applied Econometrics, Economic Education, Public Finance
- B.S. in Economics, B.A. in Music, *University of North Texas* May 2010
Magna Cum Laude, Honors College: Distinguished Honors Scholar
-

APPOINTMENTS

- Assistant Professor of Economics 2015 - present
University of Central Oklahoma
- Post-Doctoral Research Fellow at the National Wind Institute 2014 - 2015
Texas Tech University
- Teaching Consultant with the Teaching, Learning & Professional Development Center 2012 - 2014
Texas Tech University
- Graduate Part-Time Instructor 2010 - 2014
Texas Tech University
-

RESEARCH & GRANTS

Funded Research Grants

- Mwangola, W., Roach, T., "Applications of Dynamic Stochastic General Equilibrium Modeling in Supply Chain Management Research," University of Central Oklahoma, \$2,140.00. (August 2016 - May 2017).
- Roach, T., "The Costs of Induced Seismicity: A Hedonic Analysis," Sponsored by STLR, University of Central Oklahoma, \$3,000.00. (June 2016 - April 2017).
- Roach, T., "The Costs of Induced Seismicity: A Hedonic Analysis," (external grant) Sponsored by NSF, Oklahoma EPSCOR ROA+, State, \$12,326.00. (April 2016 - August 2016).

Roach, T., "Price Discrimination at the Pump: Competitive Effects of Ethanol and Ethanol Blended Gasoline," Sponsored by STLR, University of Central Oklahoma, \$6,400.00. (February 2016 - June 2016).

Roach, T., "Price Discrimination at the Pump: Competitive Effects of Ethanol and Ethanol Blended Gasoline," Sponsored by Office of Research & Grants: New Faculty Start up Grant, University of Central Oklahoma, \$451.01. (January 2016).

Refereed Publications

Roach, T. (2018) [Oklahoma Earthquakes and the Price of Oil](#), *Energy Policy*, 121, 365-373.

Metz, N.E., Roach, T., Williams, J. A. (2017) [The Costs of Induced Seismicity: A Hedonic Analysis](#), *Economics Letters*, 160, 86-90.

Noel, M. D., **Roach, T.** (2016) [Marginal Reductions in Vehicle Emissions Following a Dual-Blend Ethanol Mandate: Evidence from a Natural Experiment](#), *Energy Economics*, 64, 54-54.

Roach, T. (2016) [Low-Carbon and Renewable Energy Policy Spillover Effects on Natural Gas Demand](#), *Applied Economics Letters*, 16, 1143-1147.

Noel, M. D., **Roach, T.** (2016) [Regulated and Unregulated Substitutes: Aversion Effects of an Ethanol Mandate](#), *Economic Inquiry*, 54(2), 1150-1166.

Roach, T. (2015) [Hidden Regimes and the Demand for Carbon Dioxide Emissions from Motor-Gasoline](#), *Energy Economics*, 52, 306-315.

Ginn, V., **Roach, T.** (2015) [An Oil-Producing State's Ability to Cope after a Regional Free Trade Agreement: The Case of Texas and NAFTA](#), *The International Trade Journal*, 29, 309-336.

Roach, T. (2015) [The Effect of the Production Tax Credit on Wind Energy Production in Deregulated Electricity Markets](#), *Economics Letters* 127, 86-88.

Roach, T. (2014) [Student Perceptions toward Flipped Learning: New Methods to Increase Interaction and Active Learning in Economics](#), *International Review of Economics Education*, 17, 74-84.

Roach, T. (2014) [The Benefits of Asynchronous Discussion in a Hybrid Course: Evidence From a Large Enrollment Economics Course](#), *Journal of Economics and Economic Education Research*, 15(2).

Roach, T. (2013) [A Dynamic State-Level Analysis of Carbon Dioxide Emissions](#), *Energy Policy*, 59, 931-937.

Roach, T. (2013) [On the Nature and Causes of Carbon Dioxide Emissions in the United States](#), *Applied Economics Letters* 20, 1023-1026.

Other Publications

Roach, T. (2018) [The Economic Case for a Full Teacher Pay Raise](#), Editorial in *The Journal Record*

Roach, T. (2017) [Behavioral Economics and the Trade-off between Coal and Renewable Energy Capacity Additions](#), *IAEE Energy Forum*, Fourth Quarter 2017.

Roach, T. (2016) [It's time to set a standard, Oklahoma](#), Editorial in *The Journal Record*

Roach, Travis (2015) [Artwash: Big Oil and the Arts](#), *London School of Economics Book Reviews*

Roach, Travis (2015) Oklahoma Craft Brewing Economic Impact Report. Report completed for the Oklahoma Craft Brewers Association and Oklahoma Craft Brewers Guild

Papers Currently Under Review

Who Really Benefits from a Resource Boom? (with R. Kaj Gittings) (R&R, *Energy Economics*)

Market Power and Second Degree Price Discrimination in Retail Gasoline Markets (submitted, *Journal of Industrial Economics*)

21st Century Bootlegging: Unlawful Wine Shipments and Direct-to-Consumer Laws (with John Maisch) (submitted, *Applied Economics Letters*)

Optimal Dynamic Carbon Taxation (submitted, *Resource and Energy Economics*)

Renewable Energy Policy, Chapter for Routledge Handbook of Energy Economics

Research Presentations

Roach, T., Oklahoma Outstanding Economics Student Awards, "What it Means to Study Economics," Oklahoma Council on Economic Education, Oklahoma City, Oklahoma. (April 2018).

Roach, T., Risk Management Association Annual Economic Update, "Annual Economic Update," Risk Management Association Oklahoma Chapter, Oklahoma City, OK. (December 2017).

Roach, T., Seminar for the University of North Texas Department of Economics, "Market Power and Second Degree Price Discrimination in Retail Gasoline Markets: The Case of Ethanol-Blended Gasoline," University of North Texas Department of Economics, Denton, TX. (October 2017).

Roach, T., Oklahoma Council for the Social Studies Annual State Conference, "Real Fake News," Oklahoma Council for the Social Studies, Oklahoma City, OK. (October 27, 2017).

Roach, T., Oklahoma Summer Social Studies Conference, "Real Fake News: Using True Statistics To Tell Less Than True Stories," Oklahoma Council on Economic Education, Edmond, OK. (July 21, 2017).

Travis Roach - CV

- Roach, T. (Presenter & Author), Western Economic Association International 92nd Annual Conference, "Global Oil Markets and Local Induced Seismicity," Western Economic Association International, San Diego, CA. (June 25, 2017).
- Metz, N. (Presenter & Author), Roach, T. (Author Only), Western Economic Association International 92nd Annual Conference, "The Costs of Induced Seismicity: A Hedonic Analysis," Western Economic Association International, San Diego, CA. (June 25, 2017).
- Gittings, K. R. (Presenter & Author), Roach, T. (Author Only), Western Economic Association International 92nd Annual Conference, "Who Really Benefits from a Resource Boom?," Western Economic Association International, San Diego, CA. (June 25, 2017).
- Roach, T. (Author Only), Noel, M. D. (Presenter & Author), Energy and Environmental Conference, "Marginal Reductions in Vehicle Emissions Under a Dual-Blend Ethanol Mandate: Evidence from a Natural Experiment," Dubai, United Arab Emirates. (February 2017).
- Noel, M. D. (Presenter & Author), Roach, T. (Author Only), Energy and Environmental Conference, "Regulated and Unregulated Substitutes: Aversion Effects from an Ethanol Mandate," Dubai, United Arab Emirates. (February 2017).
- Roach, T. (Author Only), Noel, M. D. (Presenter & Author), Seminar, "Marginal Reductions in Vehicle Emissions Under a Dual-Blend Ethanol Mandate: Evidence from a Natural Experiment," American University in Dubai, Dubai, United Arab Emirates. (February 2017).
- Noel, M. D. (Presenter & Author), Roach, T. (Author Only), Seminar, "Regulated and Unregulated Substitutes: Aversion Effects from an Ethanol Mandate," American University in Dubai, Dubai, United Arab Emirates. (February 2017).
- Gittings, K. R. (Presenter & Author), Roach, T. (Author Only), Seminar, "Who Really Benefits from a Resource Boom?," University of Georgia Department of Economics, Athens, GA. (November 2016).
- Roach, T. (Presenter & Author), 34th USAEE/IAEE North American Conference, "Second Degree Price Discrimination in Retail Gasoline Markets," United States Association for Energy Economics, Tulsa, OK. (October 25, 2016).
- Roach, T. (Presenter & Author), Noel, M. D. (Author Only), Western Economic Association International 91st Annual Conference, "Marginal Reductions in Vehicle Emissions Following a Dual-Blend Ethanol Mandate: Evidence from a Natural Experiment," Western Economic Association International, Portland, OR. (July 3, 2016).
- Roach, T., Oklahoma Science Teachers Association/ Oklahoma Council of Teachers of Mathematic Summer Meeting, "Incorporating Incentives: Economic Applications in the STEM Disciplines," Oklahoma Science Teachers Association/ Oklahoma Council of Teachers of Mathematic, Tulsa, OK. (June 10, 2016).
- Roach, T. (Author Only), Noel, M. D. (Presenter & Author), Seminar, "Marginal Reductions in Vehicle Emissions Under a Dual-Blend Ethanol Mandate: Evidence from a Natural Experiment," Universidad Dinamica das Cataratas, Foz do Iguacu, Brazil. (May 2016).

Travis Roach - CV

- Noel, M. D. (Presenter & Author), Roach, T. (Author Only), Seminar, "Regulated and Unregulated Substitutes: Aversion Effects from an Ethanol Mandate," Universidad Dinamica das Cataratas, Foz do Iguacu, Brazil. (May 2016).
- Noel, M. D. (Presenter & Author), Roach, T. (Author Only), International Association for Energy Economics 5th Asian Conference, "Regulated and Unregulated Substitutes: Aversion Effects from an Ethanol Mandate," International Association for Energy Economics, Perth, Australia. (February 2016).
- Roach, T., SoTL Lunch and Learn, "Flipping the Classroom," Center for Excellence in Transformative Teaching and Learning, Nigh University Center. (November 4, 2015).
- Roach, T., Missouri Valley Economics Association 52nd Annual Conference, "Low-Carbon Policy Effects on Natural Gas Demand," Missouri Valley Economics Association, Kansas City, MO. (October 2015).
- Roach, T., Missouri Valley Economics Association 51st Annual Meeting, "Optimal Dynamic Carbon Taxation in the Presence of Business Cycles and Market Frictions," Missouri Valley Economics Association, St. Louis, MO. (October 2014).
- Roach, T., "Active Learning in Economics," University of Nottingham Business School in Ningbo China, University of Nottingham Business School in Ningbo China. (June 2014).
- Noel, M. D. (Presenter & Author), Roach, T. (Author Only), Seminar, "Regulated and Unregulated Substitutes: Aversion Effects from an Ethanol Mandate," Catholic University of Argentina, Rosario, Argentina. (June 2014).
- Noel, M. D. (Presenter & Author), Roach, T. (Author Only), 12th Annual International Industrial Organization Conference, "Regulated and Unregulated Almost-Perfect Substitutes: Aversion Effects from a Selective Ethanol Mandate," Industrial Organization Society, Chicago, IL. (April 2014).
- Roach, T., Economics Seminar Series, "Regulated and Unregulated Almost-Perfect Substitutes: Aversion Effects from a Selective Ethanol Mandate," Texas Tech University, Texas Tech University. (April 2014).
- Noel, M. D. (Presenter & Author), Roach, T. (Author Only), Seminar, "Regulated and Unregulated Substitutes: Aversion Effects from an Ethanol Mandate," University of Texas at Austin Department of Economics, Austin, TX. (April 2014).
- Roach, T., National Economics Teaching Association 9th Annual Conference, "Flipping the Economics Classroom," National Economics Teaching Association, Austin, TX. (November 2013).
- Roach, T., Third Annual Conference on Teaching and Research in Economic Education, "The Friday Flip: New Methods to Increase Interaction and Active Learning in Economics," American Economic Association, Chicago, IL. (May 2013).
- Roach, T., Society of Environmental Journalists 22nd Annual Conference, "On the Nature and Causes of Carbon Dioxide Emissions in Texas," Society of Environmental Journalists, Lubbock, TX. (October 2012).

Roach, T., Western Economic Association International 87th Annual Conference, "Viable Economic Growth: An Appeal for the Inclusion of Consistent Environmental Standards in Free Trade Agreements," Western Economic Association International, San Francisco, CA. (June 2012).

TEACHING

Teaching Appointments

<i>Assistant Professor of Economics</i> 2015-Present Economics of Social Issues (ECON 1203) Principles of Microeconomics (ECON 2103) Introduction to Energy Economics (ECON 3313) Renewable Energy Economics (ECON 4910) MBA - Managerial Economics (MBA5042) MBA - Prices Profits and the Market Economy (BADM 5135) MBA - Energy Economics (MBA 5672) MBA - Survey of Energy (MBA 5182)	2015 - Present
<i>Post-Doctoral Research Fellow</i> 2014-2015 Social Impacts of Wind Energy (WE 2300) Wind Energy Economics and Finance (WE 3310) Renewable Energy and the Environment (WE 3315) Wind Energy Law and Regulatory Issues (WE 4311) Renewable Energy Policy (WE 5320)	2014 - 2015
<i>Graduate Part-Time Instructor (Instructor of Record)</i> 2013-2014 Managerial Economics (ECO 3320) Seminar in Economic Education (GRADUATE SEMINAR) 2012-2013 Principles of Microeconomics (ECO 2301) 2011-2012 Principles of Microeconomics (ECO 2301)	2011 - 2014
<i>Teaching Assistant</i> Intermediate Microeconomics, Intermediate Macroeconomics	2010-2011

PROFESSIONAL SERVICE

Department Service

Committee Chair, Scholarship Award Committee. (August 2017 - Present).
Faculty Mentor, Department of Economics. (August 2016 - Present).
Committee Member, Scholarship Award Committee. (March 2016 - August 2017).

College Service

Committee Member, Business Honors Program (August 2018 - Present).
Faculty Advisor, MBA Student Association. (August 2017 - Present).
Committee Member, Scholarship and Awards Committee. (August 2017 - Present).
Committee Member, Graduate Council. (August 2016 - Present).
Committee Member, 2B Leaders. (June 2016 - Present).
Committee Member, Healthcare MBA Search Committee. (October 2016 - December 2016).

University Service

Committee Member, Graduate Council, Membership Committee. (August 2016 - Present).
Workshop Organizer, National Council on Undergraduate Research - Business Energy Sector Pre-Conference Workshop. (March 2018).
Program Organizer, The Future of Oklahoma Energy (MBA Session). (October 2017).
Program Organizer, The Future of Oklahoma Energy (Undergraduate Session). (October 2017).
College of Arts & Sciences Curriculum Committee (TTU).

Research Service

Referee: Journal of Environmental Economics and Management, Energy Economics, Energy, Center for Growth and Opportunity at Utah State University, Journal of Macroeconomics, Applied Economics, Journal of Economic Education, International Review of Economics Education, Journal of Cleaner Production, Accounting Education, London School of Economics Book Reviews, Mathematical and Computer Modelling of Dynamical Systems

Book Peer Review: Handbook of Energy Economics (Routledge)

Teaching Workshops and Service Teaching

Understanding Fiscal Responsibility Oklahoma Social Studies Teachers Conference	2018
“Real Fake News” Using Statistics and Excel in Social Studies Classrooms Oklahoma Social Studies Teachers Conference	2017
Incorporating Incentives: Economic Applications in the STEM Disciplines Oklahoma Science Teachers Association/ Oklahoma Council of Teachers of Mathematics Summer Conference	2017
STLR Grants and Incorporating STLR in the Classroom Panel member: School of Business Lunch and Learn	2016

Travis Roach - CV

Incorporating Flipped Methods in the Classroom Presentation for Center for Excellence in Transformative Teaching & Learning	2015
Interactive Teaching Invited Lecture: Two day workshop series for the University of Nottingham Business School in Ningbo China	2014
Teaching Non-Majors Workshop held by the Teaching, Learning, and Professional Development Center (TLPDC): Panel Member	2013
Encouraging Student Participation Workshop held by the TLPDC: Discussion Facilitator	2013
T-STEM - Shining STAARS: Charting Cross-Curricular Connections Using Project-Based Learning Environmental economics portion of teaching workshop held by TTU T-Stem Center for high school STEM educators	2012
Prezi: Engaging Presentations Workshop held for the TTU Graduate School	2011

AWARDS, FELLOWSHIPS

Travel Funding for Invited Lecture University of Nottingham Business School in Ningbo China	2014
Research Travel Awards provided by the Graduate School, Dept. of Economics	2011-2013
Teaching Effectiveness And Career enhancement (TEACH) Fellowship Campus-wide competitive teaching fellowship for doctoral students	2011-2012
Arts and Humanities Graduate Research Conference - Best Panel Presentation	2011

MEDIA CONTRIBUTIONS, RESEARCH MENTIONS

Journal Record, "Lesser-prairie chicken population issue continues to ruffle feathers" July 27, 2018.

Journal Record, "New diesel tax won't hurt farmers" July 9, 2018.

Journal Record, "NextEra prepares to build wind farm as town officials battle project" June 4, 2018.

Journal Record, "Cobra awarded \$900M Puerto Rico contract" May 29, 2018.

Journal Record, "Wind company plants stake in OKC" May 25, 2018.

The Oklahoman. "Employment falls as the oil industry becomes more efficient". May 20, 2018.

Travis Roach - CV

Journal Record. "State readies for gasoline tax increase". May 11, 2018.

Journal Record. "Iochem tries power play in rate dispute". April 9, 2018.

Journal Record. "Opponents relieved as liquor-tax bill fizzles". March 30, 2018.

Journal Record. "BP official: Energy industry must incorporate more renewables". March 23, 2018.

Journal Record. "Cobra's Puerto Rico contract could boost Mammoth". March 2, 2018.

Journal Record. "Fracas ferments over liquor tax". February 9, 2018.

Journal Record. "Alliance pursues exports to keep the coal fires burning". January 29, 2018.

Journal Record. "Experts say Step Up's tax plan raises questions". January 17, 2018.

Journal Record. "Power providers offer solar options". December 29, 2017.

Journal Record. "PSO says customers will benefit from Wind Catcher project". December 22, 2017.

Journal Record. "Economists warn against alcohol tax proposal". November 14, 2017.

Journal Record. "Homebrew suppliers split on new beer laws". October 10, 2017.

KWTV Oklahoma News 9. "Study: Earthquakes Impacting Home Prices". September 29, 2017.

Journal Record. "UCO study: Earthquakes rattle local home values" September 28, 2017.

Journal Record. "Brewer taps Oklahoma wind-generated electricity". September 13, 2017

Journal Record. "PSO's sights set on massive Panhandle wind farm". July 28, 2017.

Journal Record. "UCO energy MBA program covers conventional, renewable power". June 26, 2017.

Journal Record. "Mammoth buys Taylor Frac, Stingray Cementing". June 6, 2017.

Journal Record. "New solar technology pitched as a bargain for investors". May 26, 2017.

Fox News Oklahoma, KOKH. "'Mompreneurs' using social commerce to sell products". May 18, 2017

Journal Record. "Rebooted Keystone XL could add Oklahoma jobs". January 25, 2017.

Journal Record. "State faces barriers in retaining well-educated millennials". December 30, 2016.

Journal Record. "Seventy Seven Energy brings solid assets to merger". December 16, 2016.

Journal Record. "Turning back the clock: Studies suggest it might be time to stop saving daylight". November 3, 2016.

Journal Record. "Coal demand ignites Alliance earnings". October 28, 2016.

KGOU Broadcast. "State Question Could Bring Wine And Cold Beer To More Places, Change

Journal Record. "Clean air rules help Tulsa company". September 13, 2016.

Journal Record. "Grad student finds savings from low-impact water measures". July 22, 2016.

Travis Roach - CV

Journal Record. "Power play: Fortis-ITC merger waits for approval". July 15, 2016.

Journal Record. "Sunny days: OG&E shares results of solar panel pilot program". June 17, 2016.

Journal Record. "Devon shareholders reject activist proposals". June 9, 2016.

Fox News Oklahoma, KOKH. Comment on Layoffs at American Energy Partners. May 19, 2016.

Journal Record. "Earthly economics: Covering the costs of climate change". April 21, 2016.

Journal Record. "Wind power grows, but transmission capacity lags behind". February 11, 2016.

Journal Record. "After losing half its value, CHK stock ends day down 33 percent". February 8, 2016.

Fox News Oklahoma, KOKH "SandRidge Energy cuts workforce by more than 30%". February 3, 2016.

KOSU Broadcast. "Headlines: Waste Water, School Consolidation & Craft Beer". January 26, 2016.

Tulsa World. "What the Ale: Study finds huge potential in craft beer tax revenue". January 22, 2016.

Journal Record. "Blowing up: Wind power grew in 2015, experts expect more in 2016". December 29, 2015.

Journal Record. "Power company to argue for solar fees". November 30, 2015.

Journal Record. "Blowback: Regulatory worries can hamper wind power industry, exec says". November 11, 2015.

Journal Record. "Southern exposure: Mexico's Eagle Ford Shale could provide opportunity for Oklahoma oil industry". October 14, 2015.

Journal Record. "Causing a stir: Wind industry cries unfair as Lankford seeks to eliminate tax credit". October 6, 2015.

Newcastle Herald. "E10 Fuel Report Misunderstood [by the Biofuels Association of Australia] Says Authors". May 1, 2014.

South Coast Register. "Ethanol Fuel Under the Pump". April 30, 2014.

Australasian Convenience and Petroleum Marketers Association. "Ethanol Debacle Just the Tip of the Iceberg". April 29, 2014.

Biofuels Association of Australia. "Texan Report Underlines the Need for Consumer Education". April 29, 2014.

Daily Liberal. "Cheaper Ethanol Based Fuels Focus of Campaign: Blight". April 29, 2014. Daily Examiner. "Drivers Avoiding E10 Fuel Amid Engine Damage Fears". April 29, 2014.

Also printed in:

Ballina Shire Advocate, April 29, 2014.

Coffs Coast Advocate, April 29, 2014.

Sydney Morning Herald. "Why Ethanol Is Not the Silver Bullet", April 28, 2014.

Travis Roach - CV

Newcastle Herald. "E10 Fuel Policy and Environmental Failure". April 28, 2014.

Newcastle Herald. "Why Ethanol Is No Easy Fix", April 28, 2014.

Daily Advertiser. "Unnecessary Money Being Spent on Fuel". April 28, 2014.

Also printed in:

Daily Liberal, April 28, 2014.

Narromine News, April 29, 2014.

Sydney Morning Herald. "Mandate on Ethanol Fuels Costs Drivers Dearly: Study". April 28, 2014.

Also printed in:

Newcastle Herald (front page in print edition), April 28, 2014.

Canberra Times, April 28, 2014.

Brisbane Times, April 28, 2014.

Drive (online), April 28, 2014.

Flinders News, April 28, 2014.

The Age, April 28, 2014.

Western Advocate, April 28, 2014.

Western Australia Today, April 28, 2014.

Cowra News, April 29, 2014 (as E-Fuel Costing Motorists Dearly: Study")

Newcastle Herald. "E10 Fail: Drivers Shun Ethanol for Pricier Premium". April 27, 2014