

CURRICULUM VITAE

MICHAEL KUBY

School of Geographical Sciences and Urban Planning
Arizona State University
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EDUCATION

1988 Ph.D., Geography, Boston University

1980 A.B., Geography, University of Chicago

EMPLOYMENT

Fall 2010 – present Senior Sustainability Scientist
 Global Institute of Sustainability
 Arizona State University

Fall 2007 – present Professor, School of Geographical Sciences
 Arizona State University

Fall 1994 – Spring 2007 Associate Professor, Department of Geography
 Arizona State University

Fall 1988 – Spring 1994 Assistant Professor, Department of Geography
 Arizona State University

Fall, 1987 – Spring, 1988 Instructor, Department of Geography
 Boston University

January, 1985 – August, 1985 Transportation Geographer (Intergovernmental Personnel
 Act)
 Institute for Water Resources
 U.S. Army Corps of Engineers, Fort Belvoir, VA

RESEARCH AND TEACHING INTERESTS

Energy and Environment: alternative fuels, coal and electricity systems, carbon capture and storage, solid and toxic waste, renewable energy, dam removal
Transportation: network optimization, alternative fuels, light rail, ports, air
Facility Location: refueling stations, dispersion, network design, energy transportation
Quantitative Methods: operations research (optimization), statistics, GIS
Regions: China, United States
Geographic Education: active learning

HONORS

Featured Faculty Nominee, Division of Student Affairs, Arizona State University, 2005–2006.

Finalist (Hon. Mention), 23rd Annual Franz Edelman Award for Management Science Achievement, “China Coal Transport Study: Investment Strategies for China's Coal and Electricity Delivery System,” College on the Practice of Management Science, The Institute for Management Science (TIMS), April, 1994 (lead author of 16).

Citation Award (for best Applied Geography project), “China Coal Transport Study,” Applied Geography Specialty Group, Association of American Geographers, 1993.

Nystrom Award Finalist (for best paper based on recent Ph.D.), Association of American Geographers, March, 1989.

Presidential University Teaching Fellowship, Boston University, 1982-1986.

Phi Beta Kappa, University of Chicago, 1980.

RESEARCH

PUBLICATIONS

Books

- 2013 **Kuby, Michael**, John Harner, and Patricia Gober. 2013 *Human Geography in Action*, 6th edition. New York: John Wiley & Sons. (Includes online Student and Instructor Book Companion Sites at www.wiley.com/college/kuby and WileyPlus version of book and activities at www.wileyplus.com).
- 2010 **Kuby, Michael**, John Harner, and Patricia Gober. 2010 *Human Geography in Action*, 5th edition. New York: John Wiley & Sons. (Includes online Student and Instructor Book Companion Sites at www.wiley.com/college/kuby and WileyPlus version of book and activities at www.wileyplus.com).
- 2006 **Kuby, Michael**, John Harner, and Patricia Gober. 2006. *Human Geography in Action*, 4th edition. New York: John Wiley & Sons. (Includes online Student and Instructor Book Companion Sites at www.wiley.com/college/kuby).
- 2004 **Kuby, Michael**, John Harner, and Patricia Gober. 2004. *Human Geography in Action*, 3rd edition. New York: John Wiley & Sons, 293 pp. (Includes CD-ROM).
- 2002 **Kuby, Michael**, John Harner, and Patricia Gober. 2002. *Human Geography in Action*, 2nd edition. New York: John Wiley & Sons, 438 pp. (Included CD-ROM).
- 1998 **Kuby, Michael**, John Harner, and Patricia Gober. 1998. *Human Geography in Action*. New York: John Wiley & Sons, 468 pp. (Included CD-ROM and Instructor's Manual.)

Edited Volume

- 2009 **Kuby, Michael** and Aaron Golub (editors). 2009. *From Here to There: Transportation Opportunities for Arizona*. Report from the 94th Arizona Town Hall, April 2009, Tucson Arizona, 18 chapters, 228 pages (www.aztownhall.org/reports/94.asp).

Book-Length Refereed Publication

- 1996 **Kuby, Michael**. 1996. *Population Growth, Energy Use, and Pollution: Understanding the Driving Forces of Global Change*. Commission on College Geography 2, Series on Developing Active Learning Modules on the Human Dimensions of Global Change. Washington: Association of American Geographers, 240 pages.

Refereed Articles

- 2014 **Kuby, Michael**, Ozgur Araz, Michael D. Palmer, and Ismail Capar. An Efficient Online Mapping Tool for Finding the Shortest Feasible Path for Alternative-Fuel Vehicles. *International Journal of Hydrogen Energy* (accepted August 21, 2014)
- 2014 Seo, Kihwan, Aaron Golub, and **Michael Kuby**. Combined impacts of highways and light rail transit on residential property values: A hedonic price model for Phoenix, Arizona. *Journal of Transport Geography* (accepted August 3, 2014)
- 2014 Upchurch, Christopher and **Michael Kuby**. Evaluating Light Rail Sketch Planning: Actual vs. Predicted Station Boardings in Phoenix. *Transportation* 41:173–192. (doi: 10.1007/s11116-013-9499-9)
- 2013 Kelley, Scott and **Michael Kuby**. On the Way or Around the Corner? Observed Refueling Choices of Alternative-Fuel Drivers in Southern California. *Journal of Transport Geography* 33:258-267 (x.doi.org/10.1016/j.jtrangeo.2013.08.008).
- 2013 **Kuby, Michael**, Scott Kelley, and Joseph Schoenemann. Spatial Refueling Patterns of Alternative-Fuel and Gasoline Vehicle Drivers in Los Angeles. *Transportation Research Part D – Transport and Environment* 25:84-92. (dx.doi.org/10.1016/j.trd.2013.08.004)
- 2013 Joseph, Lawrence and **Michael Kuby**. 2013. Regionalism in US Retailing. *Applied Geography* 37: 150-159. (dx.doi.org/10.1016/j.apgeog.2012.10.005)
- 2013 Çapar, İsmail, **Michael Kuby**, V. Jorge Leon, and Yu-Jiun Tsai. 2013. An Arc Cover-Path Cover Formulation and Strategic Analysis of Alternative-Fuel Station Locations. *European Journal of Operational Research* 227: 142-151 (dx.doi.org/10.1016/j.ejor.2012.11.033).
- 2013 Kim, Jong-Geun and **Michael Kuby**. 2013. A Heuristic Approach for the Deviation Flow Refueling Location Model. *Computers and Operations Research* 40: 1122–1131. (dx.doi.org/10.1016/j.cor.2012.10.021)
- 2013 Kelley, Jason, **Michael Kuby**, and Rodrigo Sierra. 2013. Transportation Network Optimization for the Movement of Indigenous Goods in Amazonian Ecuador. *Journal of Transport Geography* 28: 89-100. (dx.doi.org/10.1016/j.jtrangeo.2012.11.006)

- 2012 Capar, Ismail and **Michael Kuby**. 2012. A New Formulation of the Flow-Refueling Location Model for Alternative-Fuel Stations Considering Candidate Locations on Arcs. *IIE Transactions* 44(8):622-636. (doi: 10.1080/0740817X.2011.635175)
- 2012 Kim, Jong-Geun and **Michael Kuby**. 2012. The Deviation Flow Refueling Location Model for Optimizing a Network of Refueling Stations. *International Journal of Hydrogen Energy* 37(6):5406-5420. (doi:10.1016/j.ijhydene.2011.08.108)
- 2012 Middleton, R.S., **Michael J. Kuby**, Ran Wei, Gordon N. Keating, and R. J. Pawar. 2012. A Dynamic Model for Optimally Phasing In CCS Infrastructure. *Environmental Modeling and Software* 37:193-205. (doi: 10.1016/j.envsoft.2012.04.003)
- 2012 Maliszewski, Paul J, **Michael J. Kuby**, and Mark W. Horner. 2012. A Comparison of Multi-objective Spatial Dispersion Models for Managing Critical Assets in Urban Areas. *Computers, Environment and Urban Systems* 36(4):331-341. (doi:10.1016/j.compenvurbsys.2011.12.006)
- 2012 Middleton, Richard S., **Michael Kuby**, and Jeffrey M. Bielicki. 2012. Generating candidate networks for optimization: the CO₂ capture and storage optimization problem. *Computers, Environment, and Urban Systems* 36(1): 18-29. (doi: 10.1016/j.compenvurbsys.2011.08.002)
- 2011 **Kuby, Michael**, Richard Middleton, and Jeffrey Bielicki. 2011. Analysis of Cost Savings from Networking Pipelines in CCS Infrastructure Systems. *Energy Procedia* 4: 2808-2815. (doi: 10.1016/j.egypro.2011.02.185)
- 2011 **Kuby, Michael**, Jeffrey Bielicki, and Richard Middleton. 2011. The Spatial Deployment of Carbon Dioxide Capture and Storage with a Price on Carbon Dioxide. *International Regional Science Review* 34: 285-305. (doi: 10.1177/0160017610397191)
- 2011 **Kuby, Michael**, Canfei He, Barbara Trapido-Lurie, and Nicholas Moore. 2011. The Changing Structure of Energy Supply, Demand, and CO₂ Emissions in China. *Annals of the Association of American Geographers* (Special issue on Energy) 101(4): 795-805. (doi: 10.1080/00045608.2011.567944)
- 2010 Atkinson-Palombo, Carol and **Michael Kuby**. 2010. The Geography of Advance Transit-Oriented Development in Metropolitan Phoenix, Arizona, 2000-2007. *Journal of Transport Geography* 19 (2): 189-199. (doi:10.1016/j.jtrangeo.2010.03.014)
- 2010 Upchurch, Christopher and **Michael Kuby**. 2010. Comparing the *p*-Median and Flow-Refueling Models for Locating Alternative-Fuel Stations. *Journal of Transport Geography* 18(6):750-758. (doi:10.1016/j.jtrangeo.2010.06.015)
- 2010 **Kuby, Michael**. 2010. Introduction to Special Section on Alternative Fuels. *Journal of Transport Geography* 18(6):711-714. (doi:10.1016/j.jtrangeo.2010.05.009)
- 2010 **Kuby, Michael** and Richard Church. 2010. Introduction to Special Issue on Location Analysis. *Networks and Spatial Economics* 10(3):293-295.(doi: 10.1007/s11067-010-9136-5)
- 2010 Lim, Seow and **Michael Kuby**. 2010. Heuristic Algorithms for Alternative-Fuel Stations Using the Flow-Refueling Location Model. *European Journal of Operational Research* 204(1): 51-61. (doi:10.1016/j.ejor.2009.09.032)

- 2009 **Kuby, Michael**, Lee Lines, Ronald Schultz, Zhixiao Xie, Jong-Geun Kim and Seow Lim. 2009. Optimal Location Strategy for Hydrogen Refueling Stations in Florida. *International Journal of Hydrogen Energy* 34: 6045-6064. (doi: 10.1016/j.ijhydene.2009.05.050)
- 2009 Kalkstein, Adam, **Michael Kuby**, Daniel Gerrity, and James Clancy. The Effect of Air Masses on Rail Transit Ridership. 2009. *Journal of Transport Geography* 17(3): 198-207. (doi:10.1016/j.jtrangeo.2008.07.003)
- 2009 Upchurch, Christopher, **Michael Kuby**, and Seow Lim. 2009. A Model for Location of Capacitated Alternative-Fuel Stations. *Geographical Analysis* 41:85-106 (in Special Issue honoring Charles S. ReVelle). (doi: 10.1111/j.1538-4632.2009.00744.x)
- 2008 Lines, Lee, **Michael Kuby**, Ronald Schultz, James Clancy, and Zhixiao Xie. 2008. A Rental Car Strategy for Commercialization of Hydrogen in Florida. *International Journal of Hydrogen Energy* 33(20): 5312-5325. (doi:10.1016/j.ijhydene.2008.05.102)
- 2008 Tierney, Sean, and **Michael Kuby**. 2008. Airline and Airport Choice by Passengers in Multi-Airport Regions: The Effect of Southwest Airlines. *Professional Geographer* 60(1): 15–32.
- 2007 Tudor-Locke, Catrine, Jennie J. Kronenfeld, Sam S. Kim, Mary Benin, and **Michael Kuby**. 2007. A Geographical Comparison of Prevalence of Overweight School-Aged Children: The National Survey of Children’s Health 2003. *Pediatrics* 120(4): e1043-e1050.
- 2007 **Kuby, Michael** and Seow Lim. 2007. Location of Alternative-Fuel Stations Using the Flow-Refueling Location Model and Dispersion of Candidate Sites on Arcs. *Networks and Spatial Economics* 7(2): 129-152.
- 2006 **Kuby, Michael**. 2006. Prospects for Geographical Research on Alternative-Fuel Vehicles. *Journal of Transport Geography* 14(3): 234-236.
- 2005 **Kuby, Michael**, Seow Lim, and Christopher Upchurch. 2005. Dispersion of Nodes Added to a Network. *Geographical Analysis* 37: 384-409.
- 2005 **Kuby, Michael**, William F. Fagan, Charles ReVelle, and William L. Graf. 2005. Multiobjective Optimization for Dam Removal: An Example Trading Off Salmon Passage With Hydropower and Water Storage in the Willamette Basin. *Advances in Water Resources* 28(8): 845-855.
- 2005 **Kuby, Michael**, and Seow Lim. 2005. The Flow-Refueling Location Problem for Alternative-Fuel Vehicles. *Socio-Economic Planning Sciences* 39(2): 125-145.
- 2004 **Kuby, Michael**, Christopher Upchurch, and Anthony Barranda. 2004. Factors Influencing Light Rail Station Boardings in the United States. *Transportation Research Part A* 38(3): 223-247.
- 2004 Upchurch, Christopher, **Michael Kuby**, Michael Zoldak, and Anthony Barranda. 2004. Using GIS to Generate Mutually Exclusive Service Areas Linking Travel On and Off a Network. *Journal of Transport Geography* 12: 23-33.
- 2003 Sommer, Curtis R., **Michael Kuby**, and Gordon Bloomquist. 2003. The Economic Geography of Geothermal District Energy in a Small Community. *Geothermics* 32: 3-19.

- 2001 Wentz, Elizabeth, **Michael Kuby**, and Brandon Vogt. 2001. Use of Geographic Information Systems for Extraction of Peak and Canyon Locations in the State of Arizona. *Cartography and Geographic Information Science* 28(4): 259-271.
- 2001 **Kuby, Michael**, Elizabeth Wentz, Brandon Vogt, and Randy Virden. 2001. Experiences in Developing a Tourism Web Site for Hiking Arizona's Highest Summits and Deepest Canyons. *Tourism Geographies* 3(4): 454-473.
- 2001 **Kuby, Michael** and Zhijun Xie. 2001. The Effect of Restructuring on U.S. Coal Mining Labor Productivity, 1980-1995. *Energy-The International Journal* 26: 1015-1030.
- 2001 **Kuby, Michael**, Zhongyi Xu, and Xiaodong Xie. 2001. Railway Network Design with Multiple Project Stages and Time Sequencing. *Journal of Geographical Systems* 3: 25-47.
- 1997 **Kuby, Michael**, Xu Zhongyi, and Xie Xiaodong. 1997. A Minimax Method for Finding the k -Best Differentiated Paths. *Geographical Analysis* 29: 298-313.
- 1997 Xie, Zhijun and **Michael Kuby**. 1997 Supply Side-Demand Side Optimization and Cost-Environment Tradeoffs for China's Coal and Electricity Delivery System. *Energy Policy* 25: 313-326.
- 1997 **Kuby, Michael**, Randall Cervený, and Ronald I. Dorn. 1997. A New Approach to Paleoclimatic Research Using Linear Programming. *Palaeogeography, Palaeoclimatology, Palaeoecology* 129: 269-290.
- 1997 **Kuby, Michael** and Peter Cook. 1997. The Implications of Structural Change, Reform and Congestion for Freight Traffic in China. *Asian Profile* 25: 1-21.
- 1995 Wyman, Max M. and **Michael Kuby**. 1995. Proactive Optimization: A Multiobjective Technology Location Model for Designing Toxic Waste Systems. *Location Science* 3: 167-185.
- 1995 Wyman, Max M. and **Michael Kuby**. 1995. Turning the Tables: Using Location Science to Specify Technology Rather Than Using Technology to Constrain Location. *INFOR-The Canadian Journal of Operational Research and Information Processing* 33: 118-122.
- 1995 Rahman, Mushtaq and **Michael Kuby**. 1995. A Multiobjective Model for Locating Solid Waste Transfer Facilities Using an Empirical Distance-Based Opposition Function. *INFOR-The Canadian Journal of Operational Research and Information Processing* 33: 34-49.
- 1995 **Kuby, Michael**, Shi Qingqi, Thawat Watanatada, Sun Xufei, Cao Wei, Xie Zhijun, Zhou Dadi, Zhang Chuntai, Yu Xiaodong, Lin Fatang, Peter Cook, Terry Friesz, Susan Neuman, Rong Jiang, Wang Xuesheng, Gao Shenhuai. 1995. Planning China's Coal and Electricity Delivery System. *Interfaces* 25: 41-68 (Special Issue: Franz Edelman Award Papers).
- 1993 **Kuby, Michael** and Robert Gray. 1993. The Hub Network Design Problem with Stopovers and Feeders: The Case of Federal Express. *Transportation Research Part A* 27: 1-12.
- 1993 **Kuby, Michael**, Susan Neuman, Zhang Chuntai, Peter Cook, Zhou Dadi, Terry Friesz, Shi Qingqi, Gao Shenhuai, Thawat Watanatada, Cao Wei, Sun Xufei, and Xie Zhijun. 1993. A Strategic Investment Planning Model for China's Coal and Electricity Delivery System. *Energy* 18: 1-24.

- 1992 **Kuby, Michael** and Neil Reid. 1992. Technological Change and the Concentration of the U.S. Liner Port System: 1970-88. *Economic Geography* 69: 272–289.
- 1992 Rahman, Mushtaq, A. Essam Radwan, Jonathan Upchurch, and **Michael Kuby**. 1992. Modeling Spatial Impacts of Siting a NIMBY Facility. *Transportation Research Record* 1359: 133–140.
- 1991 **Kuby, Michael**, Samuel Ratick, and Jeffrey Osleeb. 1991. Modeling U.S. Coal Export Planning Decisions. *Annals of the Association of American Geographers* 81: 627–649.
- 1989 Osleeb, Jeffrey, Samuel Ratick, **Michael Kuby**, Howard Olson, Lloyd Antle, Arthur Hawnn. 1989. The Coal Logistics System (COLS). *Transportation Research Record* 1222: 6–13.
- 1989 **Kuby, Michael**. 1989. A Location-Allocation Model of Losch's Central Place Theory: Testing on a Uniform Lattice Network. *Geographical Analysis* 21: 316–338.
- 1987 Ratick, Samuel J. and **Michael J. Kuby**. 1987. Regional Assessment of Coal Utilization Technologies Using Mathematical Programming. *Applications of Management Science* 5: 155–195.
- 1987 **Kuby, Michael J.** 1987. Programming Models for Facility Dispersion: the p-Dispersion and Maxisum Dispersion Problems. *Geographical Analysis* 19: 315–329.
- 1986 Osleeb, Jeffrey, Samuel Ratick, Patrick Buckley, **Michael Kuby**, and Keumsook Lee. 1986. Evaluating Dredging and Offshore Loading Locations for U.S. Coal Exports Using the Coal Logistics System. *Annals of Operations Research* 6: 163–180.

Under Review/Revision:

- 2014 **Michael Kuby**, Aaron Golub, Shawn Monk, and Matt Messina. 2014. Using network connectivity measures to evaluate and address bike network gaps: A case study of Phoenix, Arizona. Paper submitted to *Transportation Research Record* (August 1, 2014).
- 2014 Kelley, Scott and **Michael Kuby**. 2014. Compressed Natural Gas (CNG) Fleets in Southern California: Variations in Vehicles and Route Types. Paper submitted to *Transportation Research Record* (August 1, 2014).
- 2014 **Michael Kuby**, Jong-Geun Kim, and Ismail Capar. 2014. Equitable transnational infrastructure planning for natural gas trucking in the European Union. Paper submitted to *Transportation Research Record* (August 1, 2014).

Book Chapters

- 2011 Joseph, Lawrence and **Michael Kuby**. “Gravity Modeling and its Impact on Location Analysis.” Ch. 18 in *Principles of Location Science*, H. A. Eiselt and V. Marianov, editors. New York: Springer-Verlag (International Series in Operations Research and Management Science), pp. 423-443.
- 2009 Golub, Aaron, **Michael Kuby**, and Jason Kelley. 2009. “Introduction.” Ch. 1 in Michael Kuby and Aaron Golub (editors). *From Here to There: Transportation Opportunities for*

- Arizona. Report from the 94th Arizona Town Hall, April 2009, Tucson Arizona, pp. 33-48: www.aztownhall.org/reports/94.asp.
- 2009 **Kuby, Michael**. 2009. "Gas Prices." Ch. 2 in Michael Kuby and Aaron Golub (editors). *From Here to There: Transportation Opportunities for Arizona*. Report from the 94th Arizona Town Hall, April 2009, Tucson Arizona, pp. 49-60: www.aztownhall.org/reports/94.asp.
- 2009 **Kuby, Michael** and William Sheaffer. 2009. "Alternative-Fuel Vehicles." Ch. 16 in Michael Kuby and Aaron Golub (editors). *From Here to There: Transportation Opportunities for Arizona*. Report from the 94th Arizona Town Hall, April 2009, Tucson Arizona, pp. 195-206: www.aztownhall.org/reports/94.asp.
- 2004 **Kuby, Michael** and Zhijun Xie. 2004. Reducing Energy Shortages and Pollution in China: The World Bank's Coal Transport Studies. In *World Minds: Geographical Perspectives on 100 Problems (Commemorating the 100th Anniversary of the Association of American Geographers 1904-2004)*, D. G. Janelle, B. Warf, and K. Hansen, editors. Dordrecht: Kluwer Academic Publishers, pp. 351-356.
- 2002 Zhijun Xie and **Michael Kuby**. 2002. Pricing Electric Power Transmission: A Network Equilibrium Perspective. United States Association of Energy Economics/International Association of Energy Economics, 22nd North American Conference Proceedings, Vancouver, British Columbia, October 6-8, 2002.
- 1987 Osleeb, Jeffrey, Samuel Ratick, **Michael Kuby**, and Keumsook Lee. 1987. Interperiod Network Storage Location-Allocation Models. In *Spatial Analysis and Location-Allocation Models*, A. Ghosh and G. Rushton, editors. New York: Van Nostrand Reinhold, pp. 269-301.

Refereed Conference Proceedings

- 2007 **Kuby, Michael**, Lee Lines, Ron Schultz, Zhixiao Xie, Seow Lim, Jong-Geun Kim, and James Clancy. 2007. Location Strategies for the Initial Hydrogen Refueling Infrastructure in Florida. *Proceedings of the National Hydrogen Association Annual Hydrogen Conference*, San Antonio, TX, March 19-22, 2007.
- 2004 **Kuby, Michael**, Seow Lim, and Kedi Wang. 2004. A Model for Optimal Location of Hydrogen Refueling Stations: An Arizona Case Study. *Proceedings of the National Hydrogen Association Annual Hydrogen Conference*, Los Angeles, CA, April 26-30, 2004.

Non-Refereed Conference Proceedings

- 1993 **Kuby, Michael**. 1993. Review of the NEMS Coal Market Module. *Proceedings of the National Energy Modeling System Conference*, Energy Information Administration, Office of Integrated Analysis and Forecasting, U.S. Department of Energy, DOE/EIA-0566, pp. 959-987.
- 1992 **Kuby, Michael**. 1992. Prospects for Coal Shipping in the Yellow Sea Region: Supply, Demand, Technology, and Environment. *Proceedings of the Far East-U.S. Symposium on Maritime Development of the Northeast Asian Pacific Rim*, Vol. III: 79-116.

- 1984 Sham, Chi Ho and **Michael Kuby**. 1984. Spatial Patterns of Ozone Concentrations in Massachusetts. *Proceedings, New England-St. Lawrence Valley Geographical Society* 14:46–53.

Encyclopedia Articles

- 2009 **Kuby Michael J**, Tyler D. Roberts, Christopher D. Upchurch, Sean Tierney. 2009. Network Analysis. In Kitchin R, Thrift N (eds) *International Encyclopedia of Human Geography*, Volume 7, pp. 391-398. Oxford: Elsevier.

Book Reviews

- 2014 **Kuby, Michael**. 2014. Moving Towards Low Carbon Mobility, Moshe Givoni, David Banister (Eds.). Edward Elgar Publishing Ltd., Cheltenham, UK (2013). *Journal of Transport Geography* (doi: 10.1016/j.jtrangeo.2014.05.006)
- 1997 Black, William R., Andrew Goetz, **Michael Kuby**, and Bruce Ralston. 1997. Conference Reports: Transport Geography Sessions at the Association of American Geographers Annual Meeting, 1 April 1997, Fort Worth, Texas. *Journal of Transport Geography* 5:221–223.
- 1994 **Kuby, Michael**. 1994. The International Petrochemical Industry: Evolution and Location, K. Chapman (Oxford: Basil Blackwell, 1991). *Annals of Regional Science* 28:323–324.
- 1993 **Kuby, Michael**. 1993. The Ports and Waterways Sessions of the 1993 Association of American Geographers Annual Meetings. *Journal of Transport Geography* 1:280–281.
- 1993 **Kuby, Michael**. 1993. Linear Programming: An Introduction, B. Fiering (Beverly Hills: Sage, 1986). *Annals of Regional Science*.
- 1992 **Kuby, Michael**. 1992. MathPro (Mathematical Programming Software), MathPro, Inc. (Washington). *Geographical Analysis* 24:186–188.
- 1991 **Kuby, Michael**. 1991. U.S. Railroad Policy: Uncle Sam at the Throttle, J. Orenstein (Chicago: Nelson-Hall, 1990). *Journal of Regional Science* 31:237–240.
- 1990 **Kuby, Michael**. 1990. Systems of Cities and Facility Location, P. Hansen, M. Labbe, D. Peeters, and J.F. Thisse, and J. Vernon Henderson (Chur: Harwood Academic Publishers, 1987). *Geographical Analysis* 22:177–180.

Technical Reports

- 2014 **Kuby, Michael** and Aaron Golub. 2014. Bicycle Network Connectivity Project for SRP Service Area. Walton Sustainability Solutions Initiative, July 2014.
- 2007 **Kuby, Michael**, Lee Lines, Ron Schultz, Zhixiao Xie. 2007. *Hydrogen Refueling Infrastructure and Rental Car Strategies for Commercialization of Hydrogen in Florida*. Final Report to Florida Hydrogen Initiative, FHI Agreement No. 2005-01, US Department of Energy Grant Award No. DE-FC36-04G014225, June 30, 2007.
2005. **Kuby, Michael**, Sean Tierney, Tyler Roberts, Christopher Upchurch. 2005. A Comparison of Geographic Information Systems, Complex Networks, and Other Models for Analyzing

- Transportation Network Topologies. NASA Langley Research Center, NASA/CR-2005-213522, <http://techreports.larc.nasa.gov/ltrs/PDF/2005/cr/NASA-2005-cr213522.pdf>.
- 1998 **Kuby, Michael**, Eric Matranga, Sheila Conway. 1998. Sustainability in Scottsdale: Geographic Analysis of Resource and Waste Flows. Advanced Technology Program, City of Scottsdale, and Science Applications Program, NASA. September 25, 1998.
- 1998 **Kuby, Michael**. 1998. Analysis and Forecast of Labor Productivity in U.S. Coal Mining. National Energy Modeling System (NEMS) Model Quality Audit (MQA). U.S. Department of Energy, Energy Information Administration. May 20, 1998.
- 1997 **Kuby, Michael**. 1997. Empirical Analysis of Capacity Expansion in the Coal Production Industry. National Energy Modeling System (NEMS) Model Quality Audit (MQA). US Department of Energy, Energy Information Administration. April 14 1997.
- 1996 **Kuby, Michael**. 1996. Potential for Loss of Rail Traffic to Roads: A Cost-Distance Analysis. China Transport Strategy Paper, Interim Report No. 8. The World Bank, China and Mongolia Department, Transport Operations Division, February 27, 1996.
- 1996 **Kuby, Michael**. 1996. Projection of Passenger Transport Demand for 2005. China Transport Strategy Paper, Interim Report No. 7. The World Bank, China and Mongolia Department, Transport Operations Division, February 16, 1996.
- 1996 **Kuby, Michael**. 1996. Projection of Freight Transport Demand Elasticity and Modal Shares. China Transport Strategy Paper, Interim Report No. 6. The World Bank, China and Mongolia Department, Transport Operations Division, January 30, 1996.
- 1995 **Kuby, Michael**. 1995. Rail-Water Competition for Coal Transport on the Shanxi-Shanghai Corridor. China Transport Strategy Paper, Interim Report No. 4. The World Bank, China and Mongolia Department, Transport Operations Division, June, 1995.
- 1995 **Kuby, Michael** (editor and main author). 1995. Investment Strategies for China's Coal and Electricity Delivery System. Report No. 12687-CHA (Gray Cover). The World Bank, China and Mongolia Department, Transport Operations Division, March 8, 1995.
- 1994 **Kuby, Michael** (editor and main author). 1994. Investment Strategies for China's Coal and Electricity Delivery System, Volume II, Supplementary Report: The CTS Analysis System. Green Cover Report. The World Bank, China and Mongolia Department, Transport Operations Division, June, 1994.
- 1987 Osleeb, Jeffrey, Samuel Ratick, **Michael Kuby** and Charles Hinds. 1987. Coal Logistics System: User's Manual (Volume 1); Final Report (Volume 2). Management Technology and Data Systems.

Web Sites

Kuby, Michael, Elizabeth Wentz, and Brandon Vogt. 2000. *Arizona's 20-20 Challenge*: <http://www.az2020.org>.

Palmer, Michael D., **Michael Kuby**, Ozgur Araz, and Ismail Capar. 2014. *Alternative Fuel Vehicle Routing with Range and Refueling*: <http://www.afvrouting.com>.

SPONSORED RESEARCH (PI or co-PI)

Salt River Project; awarded February 2014; (period: Feb-May 2014); **Michael Kuby** and Aaron Golub (co-PIs); \$45,574; “Improved Valley Bicycle Network Planning and Coordination.”

NSF, Geography and Spatial Science; awarded July 2010; (period: 2010-2012); **Michael Kuby** (PI); \$87,573; “Spatial Refueling Patterns of Drivers of Alternative-Fuel and Conventional Vehicles.”

NSF, Geography and Spatial Science, Research Experience for Undergraduates (REU) Supplement; awarded July 2010; (period: 2010-2012); **Michael Kuby** (PI); \$7,200; “Spatial Refueling Patterns of Drivers of Alternative-Fuel and Conventional Vehicles.”

US Department of Energy, Energy Efficiency and Community Block Grant Program; awarded August 2010; (period: 2010-2013); Rob Melnick (PI), Harvey J. Bryan, Matthew P. Fraser, Timothy J. James, **Michael Kuby**, Susan E. Ledlow, Patrick E. Phelan, Agami T. Reddy (co-PIs); \$3,750,000; “Energizing Phoenix: Transforming Energy Efficiency and Energy Behaviors in Phoenix: Recovery and Retrofit along a Light Rail Corridor.” (Partners with City of Phoenix and Arizona Public Service).

Florida Hydrogen Initiative, awarded January 2006; (period: 2006-2007); Lee Lines, Rollins College (PI); **Michael Kuby** (co-PI); Ronald Schultz, Florida Atlantic University (co-PI); \$160,000; “Location Strategies for the Initial Hydrogen Refueling Infrastructure in Florida.” FHI funding from U.S. Department of Energy.

NASA Langley Research Center, awarded 2004; (period: 2004); **Michael Kuby** (PI); \$15,042; “Geographic Information Systems and Other Methods for Analyzing Transportation Network Topologies.”

NSF, Decision, Risk, and Management Science Program, awarded June 2002; (period: 2002-2004); **Michael Kuby** (PI); \$118,784; “Extending Flow Capturing Models for Refueling of Alternative Fuel Vehicles.”

Arizona Office of Tourism, awarded January, 1999; (period: 1999); **Michael Kuby** and Elizabeth Wentz (PIs); \$7,000; “Arizona’s 20-20 Challenge.”

NSF, awarded January 1998; (period: 1998-2000); Patricia Gober (PI), **Michael Kuby** (PI); \$81,974; “A Hands-on Approach to Introductory Human Geography.”

ESRI, Inc. and Autodesk, Inc., awarded August, 1993; (period: 1993); Zhijun Xie and **Michael Kuby** (PIs); \$18,000; “GIS Analysis of Environmental Aspects of the China Coal Transport Study.” Geodysey Environmental GIS Research Grants, International Geographic Information Foundation.

SPONSORED RESEARCH (team member)

NSF, awarded 2004; (period: 2004-2010); Charles Redman and Nancy Grimm (PIs); \$4,419,000; “Land Use Change and Ecological Process in an Urban Ecosystem of the Sonoran Desert. Central Arizona-Phoenix – Long Term Ecological Research Center (CAP-LTER), Phase 2” (Modeling Team member).

NSF, awarded 2004; (period: 2004-2010); Patricia Gober and Charles Redman (PIs); \$7,497,944; “Decision Center for a Desert City: The Science and Policy of Climate Uncertainty” (Decision Science Team member).

NSF, awarded 1998; (period: 1998-2004); Charles Redman and Nancy Grimm (PIs); \$4,769,178; “Land Use Change and Ecological Process in an Urban Ecosystem of the Sonoran Desert, Central Arizona-Phoenix Long Term Ecological Research Center (CAP-LTER)” (one of 32 additional core scientists and Modeling Team member).

NASA, Mission to Planet, Earth Science Applications Program, awarded 1997; (period: 1997-1999); Mark Ledbetter and Frederick Steiner (co-PIs); “Sustainability in Scottsdale,” **Michael Kuby** and Anthony Brazel, co-Principal Directors of Track Two – Local Sustainability, \$16,925.

CONTRACT RESEARCH

University of Texas-Austin, Center for Environmental Studies in Latin America; awarded 2006; (period: 2006-2008); **Michael Kuby** (PI); \$11,000; Rodrigo Sierra (PI); “Optimization Modeling for Moving Products from a Roadless Indigenous Area in the Ecuadorian Amazon.” (Original funding of \$693,093 to UT-Austin from Gordon and Betty Moore Foundation; Rodrigo Sierra (PI); “Andes-Amazon Initiative: Conservation Effort in Ecuador.”

Sapient Corp., Boston; awarded 1997; (period: 1997-1998); Samuel Ratick and **Michael Kuby** (co-PIs); \$12,000; “Pipeline Scheduling Decision Support System–Concept Paper and Demonstration Model.”

US Department of Energy; awarded 1997; (period: 1997–1998); **Michael Kuby** (PI); \$20,000; “Examination of Compositional Changes in Coal Mine Labor Productivity.” National Energy Modeling System (NEMS), Model Quality Audit.

US Department of Energy; awarded 1996; (period: 1996–1997); **Michael Kuby** (PI); \$24,900; “Empirical Analysis of Capacity Expansion in the Coal Production Industry.” National Energy Modeling System (NEMS), Model Quality Audit.

US Department of Energy; awarded 1996; (period: 1996); **Michael Kuby** (PI); \$1,312; “Assessment and Recommendations for Mine Capacity Expansion in the Coal Market Module.” National Energy Modeling System (NEMS), Model Quality Audit.

The World Bank; awarded 1994; (period: 1994-1997); Philip Anderson (Task Manager), **Michael Kuby** (Lead Modeling Consultant); approximately \$130,000 for World Bank costs, excluding Ministry of Railways costs; “China, Cost Effective Technology Evaluation for Seventh Railway Loan.” Original funding from The Policy and Human Resources Development Fund.

The World Bank; awarded 1989; (period: 1989-1994); Thawat Watanatada (Task Manager), **Michael Kuby** (Technical Director); approximately \$750,000 for World Bank costs, excluding Chinese State Planning Commission costs; “China, Coal Transport Study.” Original funding The Policy and Human Resources Development Fund, United Nations Development Program, and The World Bank.

U.S. Army Corps of Engineers, Water Resources Support Center, Institute for Water Resources; awarded 1986; (period: 1986-1987); Osleeb (PI), **Michael Kuby**, Co-investigator; \$55,000; “Updating and Testing the Coal Logistics System.”

FELLOWSHIP AND AWARDS

External

NSF; awarded June, 1995; (period: 1995-1996); Susan Hanson (PI), **Michael Kuby** (Module Author); \$750 stipend plus travel expenses; “Hands-On: Developing Active Learning Modules on the Human Dimensions of Global Change.” For workshop at Clark University for development of a hands-on learning module for the Commission on College Geography 2.

U.S. Department of Transportation, Federal Highways Authority; awarded September 2005; (period: 2005-2006); **Michael Kuby** (PI); \$1,500; Eisenhower Fellowship For Christopher Upchurch.

Internal

ASU Center for Environmental Studies; awarded December, 2002; (period: 2002-2003); **Michael Kuby** (PI); \$15,000; “Multiobjective Reserve Design for Phoenix Area Open Space.

ASU College of Liberal Arts and Sciences, Grant Award Program to Advance the Quality of Undergraduate Education; awarded May, 2002; (period: 2002-2003); **Michael Kuby**, Robert Edsall, Talbot Brooks, and Kenneth Madsen (PIs); \$11,000; “An Initiative for Undergraduate Teaching Excellence in Geography.”

ASU College of Liberal Arts and Sciences, Grant Award Program to Advance the Quality of Undergraduate Education; awarded May, 1995; (period: 1995); **Michael Kuby** and Patricia Gober (PIs); \$8,296 plus \$2,016 from the Department of Geography = \$10,312; “An Initiative for Undergraduate Teaching Excellence in Geography.”

ASU Center for Asian Studies; awarded July, 1991; (period: 1991); **Michael Kuby** (PI); \$700; “Geography of Transportation Course Development.” Original funding from U.S. Department of Education; Laurel Rodd (PI); “East Asian Course Development.”

ASU Program for Faculty Development; awarded April 1989; (period: 1989); **Michael Kuby** (PI); \$1,400; “Courseware Acquisition Grant for Purchasing PC-Globe+.”

ASU College of Liberal Arts and Sciences, Mini-Grant; awarded April 1989; (period: 1989-1990); **Michael Kuby** (PI); \$500; “U.S. Liner Ports: Concentration or Deconcentration.”

ASU College of Liberal Arts and Sciences, Faculty Grant-in-Aid; awarded March 1989; (period: 1989-1990); **Michael Kuby** (PI); \$5,000; “Modeling Central Place Theory on Uniform Networks.”

PRESENTATIONS

Invited Talks

Kuby, Michael. 2014. A trip-based approach to plan the rollout of hydrogen fueling stations. European Hydrogen Energy Conference, Workshop on “Building a Hydrogen Infrastructure for Transportation: From Scratch to Reality,” Seville, Spain, March 2014.

Kuby, Michael. 2014. Range Anxiety and the Chicken-and-Egg Syndrome: Spatial Optimization and Survey Research for the Transition to Alternative-Fuel Vehicles, Arizona State University, School of Public Affairs, February 7, 2014.

Kuby, Michael. 2012. Planning for Range Anxiety: Spatial Optimization and Survey Research for the Transition to Alternative-Fuel Vehicles, Texas A&M University, Department of Industrial Distribution, March 20, 2012.

Kuby, Michael. 2011. Range Anxiety, Chicken and Eggs, and the Valley of Death: Spatial Planning for the Transition to Alternative-Fuel Vehicles, Colgate University, Department of Geography, GTU Induction Lecture, October 21, 2011.

Kuby, Michael. 2011. China’s CO2 Challenge: Kicking the Coal Habit, Colgate University, Environmental Studies Program, October 21, 2011.

Kuby, Michael. 2011. Range Anxiety and the Chicken-and-Egg Syndrome: Spatial Optimization and Survey Research for the Transition to Alternative-Fuel Vehicles, Arizona State University, School of Geographical Sciences and Urban Planning, October 14, 2011.

Kuby, Michael. 2011. Range Anxiety and the Chicken-and-Egg Syndrome: Spatial Optimization and Survey Research for the Transition to Alternative-Fuel Vehicles, Clark University, Marsh Institute Lecture, October 11, 2011.

Kuby, Michael. 2010. Optimal Location of Refueling Stations for the Transition to Alternative-Fuel Vehicles, Lehigh University, Department of Industrial Engineering, October 8, 2010.

Kuby, Michael. 2010. Refueling Infrastructure and Rental Car Strategies for Commercialization of Alternative-Fuel Vehicles in Florida, Hunter College – CUNY, Department of Geography, March 3, 2010.

Kuby, Michael. 2010. Refueling Infrastructure and Rental Car Strategies for Commercialization of Hydrogen Vehicles in Florida, University of South Carolina, Department of Geography, February 26, 2010.

Kuby, Michael. 2010. Refueling Infrastructure and Rental Car Strategies for Commercialization of Alternative-Fuel Vehicles in Florida, Los Alamos National Laboratory, Earth and Environmental Sciences Division, February 11, 2010.

Kuby, Michael. 2009. Optimal Refueling Infrastructure Modeling for Hydrogen Vehicles in Florida. Peking University, College of Urban and Environmental Sciences, November 10, 2009.

Kuby, Michael. 2009. Hydrogen Refueling Infrastructure and Rental-Car Strategies for Commercialization of Hydrogen in Florida. University of Connecticut, Departments of Geography and Civil Engineering, September 15, 2009.

Lines, Lee, **Michael Kuby**, Ronald Schultz, Zhixiao Xie. 2008. TVP1: The Florida Hydrogen Initiative: Hydrogen Refueling Infrastructure and Rental Car Strategies for Commercialization of Hydrogen in Florida. U.S. Department of Energy Hydrogen Program, 2008 Merit Review, June 10, 2008 (invited poster).

Kuby, Michael. 2008. Ten Things to Know about Gasoline Prices and Markets. Gas Price Summit, Arizona State Legislature, June 24, 2008.

Kuby, Michael. 2008. Hydrogen Refueling Infrastructure and Rental-Car Strategies for Commercialization of Hydrogen in Florida. Geographic Information Science and Technology Group, Oak Ridge National Laboratory, June 11, 2008.

Kuby, Michael. 2006. China Climatology Case Study. Academic Decathlon Seminar for Teachers, ASU Center for Asian Research, December 2, 2006.

Kuby, Michael. 2006. Optimal Location of Hydrogen Refueling Stations for the Transition to Hydrogen Vehicles. Arizona State University, Department of Geography, March 31, 2006.

Kuby, Michael. 2006. Optimal Location of Hydrogen Refueling Stations for the Transition to Hydrogen Vehicles. University of Texas-Austin, Department of Geography, March 3, 2006.

Kuby, Michael. 2005. Optimal Location of Hydrogen Refueling Stations for the Transition to Hydrogen Vehicles. University of Arizona, Department of Geography, October 14, 2005.

Kuby, Michael. 2005. Optimal Location of Refueling Stations for Hydrogen Railways. First International Hydrail Conference, Charlotte, NC, May 6, 2005.

Kuby, Michael. 2005. Optimal Location of Hydrogen Refueling Stations. University of Denver, Department of Geography, February 24, 2005.

Kuby, Michael. 2004. Geography of China. National Consortium for Teaching about Asia (NCTA) seminar. ASU Center for Asian Studies, Tempe, AZ, March 20, 2004.

Kuby, Michael and Christopher Upchurch. Factors Influencing Light-Rail Station Boardings in the United States. ASU Light Rail Interest Group, Tempe, AZ, Oct. 31, 2003.

Kuby, Michael. The Changing Structure of China's Energy System, A.T. Steele Lecture, Center for Asian Studies, Arizona State University, April 17, 2003.

Kuby, Michael. 2003. Geography of China. National Consortium for Teaching about Asia (NCTA) seminar. ASU Center for Asian Studies, Tempe, AZ, March 1, 2003.

Kuby, Michael. Analysis and Forecast of Labor Productivity in U.S. Coal Mining, Coal Productivity Seminar, U.S. Dept. of Energy, Energy Information Administration. April 9, 1998.

Kuby, Michael. Operations Research Modeling of China's Railway System, Center for Advanced Transportation Systems Research, College of Engineering, Arizona State University, Apr 4, 1996.

Kuby, Michael (lead author of sixteen). China Coal Transport Study: Investment Strategies for China's Coal and Electricity Delivery System, 23rd Annual Franz Edelman Award Session, College on the Practice of Management Science, The Institute for Management Science (TIMS), Boston, MA, April 24, 1994.

Kuby, Michael. Planning China's Coal and Electricity Delivery System. Department of Geography, Boston University, February 15, 1994.

Kuby, Michael. Investment Strategies for China's Coal and Electricity Delivery System. Department of Geography, University of Illinois, December 13, 1993.

Kuby, Michael, Thawat Watanatada, Shi Qingqi, and Sun Xufei. The Coal Transport Study Decision Support System. Coal Transport Study Report Meeting, World Bank Resident Mission in China, Beijing, China, October 9, 1993.

Kuby, Michael. 1993. Review of the NEMS Coal Market Modules. National Energy Modeling System Conference, Arlington, VA, February, 1993.

Kuby, Michael. Prospects for Coal Shipping in the Yellow Sea Region: Supply, Demand, Technology, and Environment. Far East-U.S. Symposium on Maritime Development of the Northeast Asian Pacific Rim, Korea Maritime Institute, Seoul, August 18-20, 1992.

Kuby, Michael. A Strategic Investment Planning Model for Alleviating Shortages in China's Coal and Electricity Delivery System, Northwestern University, Transportation Center, Colloquium Series, February 7, 1992.

Kuby, Michael. China's Coal Shortage: Problems and Solutions, University of Arizona, Department of Geography, April, 1990.

Kuby, Michael. A Location-Allocation Model of Losch's Central Place Theory: Testing on Uniform Networks, Association of American Geographers Annual Meeting, Nystrom Award Competition, Baltimore, MD, March, 1989.

Kuby, Michael. Temporal and Spatial Energy Logistics Models for Infrastructure Investments, presented at the Department of Industrial Management, Indian Institute of Science, Bangalore, November, 1985.

Kuby, Michael. The Boston University Coal Logistics System Planning Model, U.S. Army Corps of Engineers, North Atlantic Division, Deep Draft Navigation Economic Conference, Ocean City, NJ, May, 1985.

Conference Presentations (last 5 years)

Michael Kuby, Jong-Geun Kim, and Ismail Capar. 2014. Equitable Transnational Infrastructure Planning for Natural Gas Trucking in the EY. International Symposium on Locational Decisions, Naples, Italy, June 16, 2014.

Michael Kuby, Jong-Geun Kim, and Ismail Capar. 2014. Optimal Location of Natural Gas Fuel Stations for Trans-Europe Trucking. Association of American Geographers Annual Meeting, Tampa, FL, April 12, 2014.

Lawrence Joseph and **Michael Kuby**. 2013. Modeling Retail Chain Expansion and Maturity through Wave Analysis: Theory and Application to Walmart and Target. Association of American Geographers Annual Meeting, Los Angeles, April 10, 2013.

Michael Kuby, Ismail Capar, V. Jorge Leon. 2013. An Arc Cover-Path-Cover Formulation of the Flow-Refueling Location Model for Planning Alternative-Fuel Stations. Association of American Geographers Annual Meeting, Los Angeles, April 13, 2013.

Scott Kelley and **Michael Kuby**. 2013. Observed Driving and Refueling Behavior of Compressed Natural Gas Fleets in Southern California. Association of American Geographers Annual Meeting, Los Angeles, April 13, 2013.

Michael Kuby, Anna Berlin, Samantha L. Neufeld, Scott Kelley, George Oliver, Michael Dalrymple, and Alex Castelazo. 2013. What Businesses Choose Energy Retrofits? The Characteristics that Predict Participation in the Energize Phoenix Project., Energy, Utility, and Environment Conference. Phoenix, AZ, January 30, 2013.

Scott Kelley and **Michael Kuby**. 2013. On the Way or Around the Corner? Refueling Choices of Alternative Fuel Vehicle Drivers in Southern California. Transportation Research Board, Washington DC, January 16, 2013.

Samantha L. Neufeld, Anna Berlin, George Oliver, Mick Dalrymple, Alex Castelazo, and **Michael Kuby**. 2012. Commercial Upgrade Programs: Which Businesses Participate? – Part II. Behavior, Energy and Climate Change (BECC) Conference, Sacramento, CA, November 12-14, 2012.

Scott Kelley and **Michael Kuby**. 2012. Spatial Refueling Patterns of Compressed Natural Gas (CNG) Drivers in Southern California. INFORMS, Phoenix, October 15, 2012.

Ozgur Araz, Ismail Capar, and **Michael Kuby**. 2012. Finding Shortest Paths for Alternative Fuel Vehicles on a Real Road Network. INFORMS, Phoenix, October 15, 2012.

Michael Kuby and Jong-Geun Kim. 2012. A Heuristic Approach for the Flow Refueling Location Model Allowing Driver Deviations. INFORMS, Phoenix, October 15, 2012.

Lawrence Joseph and **Michael Kuby**. 2012. The Location Types of U.S. Retailers. Association of the American Geographers, New York, February 27, 2012.

Michael Kuby, Richard Middleton, Jeffrey Bielicki. 2011. Benefits of Network Optimization for Planning Carbon Capture and Storage Infrastructure Systems. Association of the American Geographers, Seattle, April 13, 2011.

Michael Kuby, Scott Kelley, Joseph Schoenemann. 2012. Spatial refueling patterns of drivers of natural gas and gasoline cars in Los Angeles. Association of the American Geographers, New York, February 27, 2012.

Michael Kuby and Christopher Upchurch. 2010. Comparing the p-Median and Flow-Refueling Models for Locating Alternative-Fuel Stations. ISATS2010: First International Symposium on Advances in Transport Sustainability, Tempe, AZ, November 18, 2010.

Richard S. Middleton, **Michael J. Kuby**, Ran Wei, Gordon N. Keating, and R. J. Pawar, 2011. Spatiotemporal and economic decision making for the evolution of CCS infrastructure, *Tenth Annual Conference on Carbon Capture & Sequestration*, Pittsburgh PA.

Capar, Ismail, **Michael Kuby**, Brijesh Rao. 2010. The Flow-Refueling Location Model for Alternative-Fuel Stations: An Efficient Formulation. The Institute for Operations Research and Management Science (INFORMS), November 8, 2010.

Michael Kuby and Christopher Upchurch. 2010. Comparing the p-Median and Flow-Refueling Models for Locating Alternative-Fuel Stations. The Institute for Operations Research and Management Science (INFORMS), November 7, 2010.

Kuby, Michael, Richard Middleton, Gordon Keating, Jeffrey Bielicki. 2010. Analysis of the Cost Savings from Networking Pipelines in CCS Infrastructure Systems. 10th International Conference on Greenhouse Gas Control Technologies, Amsterdam, September 19-23, 2010.

Workshops

Kuby, Michael. 2011. Human Geography in Action. National Council for Geographic Education, Portland, OR Aug. 5, 2011.

Kuby, Michael and John Harner. 2010. Human Geography in Action. Association of American Geographers Annual Meeting, Washington, D.C., April 17, 2010.

Kuby, Michael and John Harner. 2009. WileyPlus and Human Geography in Action: Interactive Learning with Less Grading. Association of American Geographers Annual Meeting, Las Vegas, March 23, 2009.

Panel Participation

Kuby, Michael. 2014. Geographic Contributions to the Third National Climate Assessment. Association of American Geographers Annual Meeting, Tampa, FL, April 9, 2014.

Kuby, Michael. 2012. Are High Gas Prices Here to Stay? Case Critical seminar, Global Institute of Sustainability, Arizona State University, April 13, 2012.

Kuby, Michael. 2010. Author Meets Critics: Richard Gilbert and Anthony Perl, 'Transport Revolutions' (sponsored by China, Energy and Environment, and Transport Specialty Groups). Association of American Geographers Annual Meeting, Washington, D.C., April 14, 2010.

Kuby, Michael. 2009. Making Sustainable Transportation Work. Association of American Geographers Annual Meeting, Las Vegas, March 23, 2009.

Kuby, Michael. 2006. Identifying Emerging Research Trends and New Directions in the Subdiscipline. Transportation Geography Specialty Group, Association of American Geographers Annual Meeting, Chicago, March 11, 2006.

Kuby, Michael. 2006. From Energy Past to Energy Future: Renewables and Alternatives. Energy and Environment Specialty Group, Association of American Geographers Annual Meeting, Chicago, March 9, 2006.

Kuby, Michael. 1997. Review of *Geography of Transportation*, 2nd edition, Association of American Geographers Annual Meeting, Fort Worth, April 1997.

Kuby, Michael. 1996. Developing Active Learning Modules on the Human Dimensions of Global Change. Association of American Geographers Annual Meeting, Charlotte, April 1996.

Kuby, Michael. 1996. Are We Missing the Plane, Train, Bus, or Boat? Opportunities in Applied Transportation Geography. Association of American Geographers Annual Meeting, Charlotte, April 1996.

TEACHING

COURSES TAUGHT

Arizona State University

GCU 102	Introduction to Human Geography
GCU 350	Geography of World Crises (Regular and Honors)
GCU 432	Geography of China
GCU 495	Quantitative Methods in Geography
GCU 442/542	Geographical Analysis of Transportation
GCU 496	Introduction to Geographical Research Methods
GCU 585	Advanced (Graduate) Research Methods
GCU 591	Light Rail and Climate Seminar
GCU 591	Hydrogen Energy Seminar
GCU 591	Optimization Models for Facility Location and Transportation
PUP 591	Transportation Certificate Pro-Seminar
PUP 593	Transportation Certificate Capstone Seminar

Boston University

GG 201	World Regional Geography
GG 103	Introduction to Economic Geography
GG 331	Political Geography
GG 815	Geographic Optimization Models

GRADUATE STUDENT MENTORING

Chaired (completed)

Lawrence Joseph, Ph.D., Chair, Spring, 2013.
Michael Palmer, M.A., Chair, Spring, 2013.
Jong-Geun Kim, Ph.D., Chair, Fall, 2010.
Jason Kelley, M.A., Chair, Fall, 2008.
Seow Lim, Ph.D., Chair, Fall, 2007.
Alice Chen, M.A., Chair, Spring, 2007.
Tyler Roberts, M.A., Spring, 2006.
Kedi Wang, M.A., Chair, Fall, 2005.
Christopher Upchurch, M.A., Chair, Fall, 2005.
Sean Tierney, M.A., Chair, Fall, 2004.

Sommer, Curtis. M.A., Chair, 2000.
Gayle Wilkinson, M.A., Chair, 1997.
Max M. Wyman, Ph.D., Chair, 1994.
Robert G. Gray, M.A., Chair, 1990.

Chairing (in progress)

Scott Kelley, Ph.D., Chair, anticipated completion, 2014.
Kihwan Seo, Ph.D., Chair, anticipated completion 2015.
Shuyao Hong, M.A., Chair, anticipated completion 2015.

Committee Member (completed)

Jing Yao, Ph.D., Geography, 2012.
Karthik Konduri, Ph. D., Sustainable Engineering and the Built Environment, 2012.
Angelika Kizior, MUEP, 2012.
Der-Shiuan Lee, Ph.D., 2011.
Atsushi Nara, Ph.D., 2011.
Paul Padegimas, M.A., 2011.
Daniel Christen, MUEP, 2011.
Nayoung Ryu, M.A., 2009.
Scott Kelley, M.A., 2008.
Timothy Leslie, Ph.D., 2007.
Carol Atkinson-Palombo, Ph.D., 2007.
Elizabeth Troncone, M.A., 2006.
Cem Vardar, Ph.D., Industrial Engineering, 2006.
Camden Herzfeld, M.A., 2006.
Jodie Brown, M.E.P., Environmental Planning, 2001.
Canfei He, Ph.D., 2001.
Sheila Conway, M.A., 2000.
Paul E. Kaizar, M.A., 1997.
Eric Matranga, M.A., 1996.
Richard Matthews, Ph.D., 1995.
Michael McGlade, Ph.D., 1994.
Dawn Hawley, Ph.D., 1994.
Richard Matthews, M.A., 1992.
Mushtaqur Rahman, Ph.D., Civil Engineering, 1991.
Neil Reid, Ph.D., 1991.
William Menucci, M.A., 1991.
Mary McPherson, Ph.D., 1989.

Committee Member (in progress)

Yang Song, Ph.D., Life Sciences.
Liyuan Liu, MUEP.

UNDERGRADUATE MENTORING

Emily Rosen, Honors Thesis, second reader, 2013.
Benjamin Sanchez, Honors Thesis, first reader, 2013.
Nicole Saidi, Honors Thesis, first reader, May, 2005.
Jess Welsh, Honors Thesis, third reader, 1998.
Lucinda Wold, Honors Thesis, third reader, 1993.
Huang Huynh, One-to-One Mentoring Program, ASU, 1993-1994.

SERVICE

Professional Service (National and International)

Lead Author, Transportation Chapter, 2013 Report, National Climate Assessment (NCA), US Global Change Research Program, 2011-2013.

Location Science Area Editor, *Networks and Spatial Economics*, January 2007-present.

Member, Editorial Board, *International Regional Science Review*, 2010-present.

Member, Editorial Board, *Journal of Transport Geography*, 1998-present.

Guest Editor, *Journal of Transport Geography*, Special Section on Alternative Fuels, 2010.

Guest Editor, *Networks and Spatial Economics*, Special Issue on Location, 2010.

North American Book Review Editor, *Journal of Transport Geography*, 2006-present.

Member, Sustainable Transport in Europe with Linkages and Liaisons to America (STELLA), 2002-2004.

Member, Sustainable Transport Analysis and Research (STAR) Network, 2000-2004.

Chair and Newsletter Editor, Transportation Geography Specialty Group, Association of American Geographers, 1998-2000.

Secretary/Treasurer, Transportation Geography Specialty Group, Association of American Geographers, 1995-1997.

Member, Editorial Board, *The Professional Geographer*, 1994-1997.

Member, Local Arrangements Committee, ORSA/TIMS Joint National Meeting, Phoenix, Fall, 1993.

Member, National Energy Modeling System (NEMS) Review Panel, U.S. Dept. of Energy, February 1-2, 1993.

Board of Directors, Transportation Geography Specialty Group, Association of American Geographers, 1992-1995.

Professional Service (Session Organizer)

Organizer and Chair, Special Session on “Alternative Fuels, Stations, and Vehicles, I and II,” INFORMS, 2012 Annual Meetings, Phoenix, AZ.

Organizer and Chair, Special Session on “Alternative Fuels and Vehicles,” Transportation Geography and Energy and Environment Specialty Groups, Association of American Geographers, 2009 Annual Meetings, Las Vegas, NV.

Organizer and Chair, Special Sessions on "Alternative Fuels I and II," Transportation Geography and Energy and Environment Specialty Groups, Association of American Geographers, 2008 Annual Meetings, Boston, MA.

Organizer and Chair, Special Sessions on "Alternative Fuels I and II," Transportation Geography and Energy and Environment Specialty Groups, Association of American Geographers, 2007 Annual Meetings, San Francisco, CA.

Organizer and Chair, Special Session on "The Hydrogen Economy," Transportation Geography and Energy and Environment Specialty Groups, Association of American Geographers, 2005 Annual Meetings, Denver, CO.

Organizer and Chair, Special Session on "Urban Transportation," Transportation Geography Specialty Group, Association of American Geographers, 2003 Annual Meetings, New Orleans.

Organizer and Chair, Special Sessions on "Transportation Research by Student Travel Award Winners, I and II." Transportation Geography Specialty Group, Association of American Geographers, 1999 Annual Meetings, Honolulu, HI.

Organizer and Chair, Special Session on "Transportation Geography and the Bureau of Transportation Statistics." Transportation Geography Specialty Group, Association of American Geographers, 1997 Annual Meetings, Fort Worth, TX.

Organizer and Chair, Special Session on "Operations Research Models for Transportation and Location Problems." Transportation Geography Specialty Group, Association of American Geographers, 1996 Annual Meetings, Charlotte, NC.

Professional Service (Proposal Reviewer)

National Science Foundation
National Oceanic and Atmospheric Administration
Natural Science and Engineering Council of Canada

Professional Service (External Ph.D. Dissertation Reviewer)

University of Alberta, Department of Geography (2007)
McMaster University, Department of Geography (2006)

Professional Service (Journal Reviewer)

Annals of the Association of American Geographers
Annals of Operations Research
Annals of Regional Science
Cities
Computers, Environment, and Urban Systems
Computers and Operations Research
Ecological Economics
Economic Geography
Environmental Management
Environment and Planning
Environmental Modeling and Assessment
European Journal of Operations Research
GeoBulletin
Geografiska Annaler
Geographical Analysis
Growth and Change
INFOR-The Canadian Journal of Operational Research and Information Processing
International Journal of Geographical Information Science
International Transactions in Operations Research

Journal of Geography in Higher Education
Journal of Environmental Management
Journal of Regional Science
Journal of Transport Geography
Letters in Spatial and Resource Sciences
Location Science
Naval Research Logistics
Networks
Networks and Spatial Economics
Papers in Regional Science
Professional Geographer
Q Science Connect
Socioeconomic Planning Sciences
Southeastern Geographer
Sustainable Energy Technologies and Assessments
Tourism Geographies
Transportation
Transportation Research Parts A,B,C,D,E
Transportation Research Record
Transportation Science
Urban Geography
Water Resources Research

Professional Service (Local and State)

Member, Valley of the Sun Clean Cities Coalition.

Member, Electric Vehicles Arizona (EVAZ) Stakeholder Group, Arizona Smart Power.

Emcee, State Geography Bee Finals, National Geographic Society (April 2009).

Judge and Question Coordinator, Tempe Geography Bee (2009-present)

Co-editor, Background Report on Transportation, Arizona Town Hall (April 2009).

Coordinator, High School Exchange Program with Zhenjiang China, Tempe Sister Cities (Feb., 2007-present)

Judge, State Geography Bee (1992, 2003)

Lecturer, Phoenix area schools, Kiwanis Club, National Geography Week, Arizona Geographic Alliance, Consortium for Teaching on Asia (1988-present)

University Service

Member, Advisory Board, Bicycle Coalition at ASU (2014-present)

Member, Search Committee, Transportation Position, School of Sustainable Engineering and the Built Environment (2012-2013)

Director, Interdisciplinary Graduate Certificate Program in Transportation Systems (Dec. 2010 -present)

Member, NACTS University Advisory Council (2010-2012)

Member, Executive Committee, Center for Asian Research (2006-2010)

Co-organizer, ASU Light Rail Interest Group (2003-2004)

Committee on National Scholarship Advisement (2000-2002)

Chair, Global Awareness Subcommittee, General Studies Committee (2001-2002)

Member, Global Awareness Subcommittee, General Studies Committee (2000-2001)

Member, Steering Committee, Interdisciplinary Graduate Certificate Program in Transportation Systems (1997-present)

Lecturer, Honors College Recruiting Day (1994)

Facilitator, One-to-One Minority Counseling Program (1991-1995)

Faculty Advisor, Men's and/or Women's Ultimate Frisbee Clubs (1991-present)

Organized campus visit by Prof. Dennis Meadows for 17 ASU departments (January, 1993)

College Service

Faculty Senator, College of Liberal Arts and Sciences Senate (1992-1995)

School/Department Service

Colloquium Committee (1989-1990)

Executive Committee (1999-2000, 2003-2006)

Friends for Geography, Treasurer (1996-2002), Interim Chair (Spring, 1999)

Gamma Theta Upsilon, International Geographic Honor Society, Chair (2006-present)

Graduate Committee (1997-1999), Chair (1998-1999)

Graduate Program/Policy Committee (1999-2000), Chair (2006-07), Chair (2010-present)

Graduate Recruiting and Admissions Committee (2004-2005)

Human Geography Course Cluster, Chair (1999-2010)

Land Use Systems Committee (1988-1993)

M.A. Committee (1988-1990)

M.A. Curriculum Committee (1989-1990)

Personnel Committee (1991-1993, 1996-1998, 2001-2002, 2004-2006)

Ph.D Committee (1994-1995)

Scholarship Committee (1999-2001)

Search Committee Member (1988-1989, 1996-1997, 2001-2002, 2013-2014)

Search Committee Chair, Borderlands position (2003-2004)

Self-Study Committee (2003-2004)

Undergraduate Committee (2000-2002, 2008-2009)