McCarl, Bruce A. CV October 2026

Office Address: 2100 Fawn Court
College Station, Texas 77845
(979) 204 6023
brucemccarl@gmail.com
ORCID 0000-0002-8864-186X

Education

B.S.	1970	University of Colorado, Boulder, 1966-1970	
		Major:	Business Statistics
Ph.D.	1973	Pennsylvania State University, State College, 1970-1972	
		Major:	Management Science
		Minor:	Industrial Engineering
		Supporting:	Operations Management

Professional Experience

Principal McCarl and Associates	1973-date
Professor Emeritus	June 2026-date
University Distinguished Professor, Texas A&M University,	2008 – present
Presidential Impact Fellow, Texas A&M University,	2017 – present
Regents Professor, Texas A&M University,	2002 – present
Texas Agrilife Research Senior Faculty Fellow, Texas A&M University,	2012 – present
Texas Agrilife Research Faculty Fellow, Texas A&M University,	2006 –present
Professor, Agricultural Economics, Texas A&M University,	1985 – May 2026
Professor, Agricultural and Resource Economics, Oregon State University,	1982 - 1985
Associate Professor, Agricultural Economics, Purdue University,	1977 - 1982
Visiting Assoc. Prof., Ag and Resource Economics, Oregon State University,	1980 - 1981
Assistant Professor, Agricultural Economics, Purdue University,	1973 - 1977
Research and Teaching Assistant, Pennsylvania State University,	1970 - 1972
Grading and Research Assistant, University of Colorado,	1969 - 1970

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Honors, and Awards

Appreciation Club, Agricultural and Applied Economics Association, 2026
Mentoring Award, Agricultural and Applied Economics Association, 2026
Fellow American American Association for the Advancement of Science, 2024
Texas A&M Association of Former Students, Individual Research Award, 2023
Texas A&M Association of Former Students, Mentoring Award, 2023
Recognized by Crop Science Society Of America as an author of one of the top 10 most cited papers in *Agrosystems, Geosciences & Environment,* for 2023 where the paper is **Carbon sequestration and water management in Texas-One size does not fit all.**
Texas A&M Graduate School, Mentoring Award, 2023 (inauguaral award, 3 given)
Southeastern Conference Faculty Achievement Award winner for Texas A&M, 2022 (one per year from the University, chosen by TAMU President)
Best Paper Award, 2022 from the journal Atmosphere for Climate Change and Livestock Production: A Literature Review" by M. Cheng, B.A. McCarl and C.J. Fei.
Featured Article "Optimal Design and Operation of a Second-Generation Biofuels Supply Chain" in the April, 2022 issue of IISE Transactions selected for feature it in the research section of the March, 2022 issue of the Industrial and Systems Engineer Magazine
Best PhD presentation, Yabin Da and Bruce A. McCarl, "Freezing days matter for the impacts of climate change on winter wheat yield", Annual Conference of The Agricultural Economics Society, March 2021
Best Poster Presentation Award for Ilkay Dellal, Bruce A. McCarl, and Ilknur Unuvar "Food Supply of Turkey under Paris Climate Agreement" presented at VIII International Scientific Agriculture Symposium -AGROSYM 2017", Jahorina Mountain Bosnia and Herzegovina, Oct 2017.
Presidential Impact Fellow, Texas A&M University, 2017 – date (inaugural class, 24 people, chosen by Provost)
TAMU Vice Chancellor for Agriculture Award in Excellence Individual on Campus Research, 2014 (1 given that year, chosen by College Committee)
Blue Legacy Award in Agriculture participant, 2012 through the award to the Ogallala Aquifer Program and participating scientists that was given by the Water Conservation Advisory Council
Southern Agricultural Economics Association Lifetime Achievement Award, 2012
Texas Agrilife Research, Senior Fellow, January 2012
Former Students Distinguished Achievement Research-Texas A&M, 2010
Bruce Gardner Memorial Prize for Applied Policy Analysis for 2009 given by the Agricultural and Applied Economics Association (1 given annually)
Outstanding Article in Agricultural and Applied Economics Association Journal *Choices,* 2009 (1 given annually)
Distinguished Scholar Award, 2009, Western Agricultural Economics Society (5 given in 2009)
Presidential Award of Excellence for Faculty Service to International Students, 2009, TAMU (1 given annually).
American Society of Agricultural and Biological Engineering (ASABE) Educational Aids Blue Ribbon Award for 2009 in the Comprehensive Publication Category for Field guide on managing contaminated animal and plant materials
TAMU Distinguished Professor, 2008 (6 promotions given that year, chosen by University Distinguished Professor Committee)

Publication of Enduring Quality, 2008, American Agricultural Economics Association for a 1990 article in Nature with Rich Adams and others (1 given annually).
Named to the *Texas Monthly* list of "35 People Who Will Shape Our Future", 2008
Nobel Peace Prize participant, 2007 through award to Intergovernmental Panel on Climate Change as designated by IPCC (IPCC and Al Gore were awarded, 2000+ other members of Panel)
Presidents Award 2007, American Agricultural Economics Association, for service to the Association (1 given annually)
Distinguished Scientist Award for 2007- Texas A&M Chapter of Sigma Xi (1 given annually from TAMU faculty chosen by committee of Sigma Xi Scientists)
Texas Agricultural Experiment Station Fellow, January 2005 (5 given that year, chosen by Experiment Station Committee)
Distinguished Fellow, American Agricultural Economics Association, 2005 (6 given that year, chosen by Association Committee designed to cumulatively honor top 2-3% of profession)
TAMU Regents Professor, Faculty Senate, 2002 (2 Faculty Senate positions given that year, chosen by University Committee)
TAMU Vice Chancellor for Agriculture Award in Excellence Individual on Campus Research, 1994 (1 given that year, chosen by College Committee)
TAMU Vice Chancellor for Agriculture Award in Excellence Industry/Agency/Association Partnership Award, 2001 (1 given that year, chosen by College Committee)
Former Students Distinguished Achievement Research-Texas A&M 1994 (4 given that year chosen by faculty committee)
USDA Administrators Superior Service Award - Individual Scientific Research 1993 (1 given that year to a non USDA employee, chosen as nominee at TAMU then by USDA committee)
TAMU Agricultural Economics Graduate Student Instructor Award 1992 (1 given per year chosen by student organization)
U.S. Environmental Protection Agency, Award for Research Excellence, National Crop Loss Assessment Network, November 1987 (Nominated by EPA group then chosen by EPA committee)

Honors earned by former students

Witsanu Attavanich, The Best Young Thai Economist Award (Puey Ungphakorn Award), 2019
Jinxiu Ding, University Council on Water Resources, Honorable Mention PhD Dissertation Award, 2016.
Mario Fernandez, University Council on Water Resources, PhD Dissertation Award, 2014.
Mario Fernandez, Southern Agricultural Economics Association, PhD Dissertation Award, 2014.
Justin Baker, Southern Agricultural Economics Association, PhD Dissertation Award, 2012.
Lars Brink, Fellow Canadian Agricultural Economics Association, 2011.
Thomas Spreen, Lifetime Achievement Award, Southern Agricultural Economics Association, 2006.
Behnam Malakooti, Fellow, IEEE (2000), Society of Manufacturing Engineers (1996)
Tom Tice, 2006 USDA Economist of the Year
Keith Keplinger, University Council on Water Resources Dissertation Award 1997 (1 given that year, chosen by UCOWR professional association Committee)
Richard Klemme, AAEA Dissertation Award, Honorable Mention 1980 (1 award and 1 honorable mention given that year)

Research Interests

A. Research on resource and agricultural policy questions involved with the agricultural, and forestry sectors individually and collectively in both domestic and international settings
   1. Investigation of the effects of climate change
   2. Investigation of means of adapting agriculture to clmate change
   3. Investigation of the effects of greenhouse gas emission management including carbon sequestration and other gas management
   4. Investigations of water use, policy and management
   5. Investigation of the effects of El Nino and other ocean circulation phenomena which influence weather and the value of forecasts
   6. Water Allocation
   7. Public policy alternatives toward agriculture and natural resource use
   8. Investigations of Biofuel production possibilities

B. Research on methodological issues involved with policy decision modeling
   1. Sector Modeling
   2. GAMS usage
   3. Incorporation of risk and distributional questions in policy analysis.

Teaching Experience

A. Pennsylvania State University
   Undergraduate courses on Operations Research and Statistics

B. Purdue University
   Undergraduate course on Production Management
   Graduate courses on Mathematical Programming and Matrix Algebra

C. Oregon State University
   Graduate courses on Mathematical Programming; Dynamic Optimization; Risk; and Microcomputers

D. Texas A&M University
   Graduate courses on (1) Mathematical Programming; (2) Risk; (3) Advanced Production Economics; (4) Masters Course on Quantitative Analysis; (4) Climate Change Economics; (5) Energy Economics; and (6) Homeland Security Economics

E. Courses on GAMS
   Instructor of GAMS short courses at USDA/ERS, USDA/FSIS, University of Muenster, IIASA, Wageningen University, University of Gottingen, Imperial College, Electrabel, World Bank, Hamburg University, Monterrey Tech, Univ of Western Austrailia, EPRI, IFPRI, EPA, Texas A&M plus 12 courses in Texas and 7 in Colorado.

Editorial Positions

Associate Editor	*American Journal of Agricultural Economics*	1986-1991
Associate Editor	*Water Resources Research*	1989-2000
Coordinating Editor	*Choices*	2004-2007
Associate Editor	*Climatic Change*	2000-2019
Deputy Editor	*Climatic Change*	2019-2025
Associate Editor	*Economics E- journal*	2007-2015

Summary of McCarl Publications as of October 2026

Vita Type	Total	1971 1975	1976 1980	1981 1985	1986 1990	1991 1995	1996 2000	2001 2005	2006 2010	2011 2015	2016 2020	2021 2025	2026 2026
Journal Articles	333	6	23	29	30	17	31	31	36	55	36	37	2
Books	12	1	0	0	0	0	0	2	5	0	3	1	0
Book Chapters	70	0	0	4	4	6	7	11	12	15	10	1	0
Govt/Univ/Research Reports	73	8	6	17	7	5	5	6	7	8	1	3	0
Invited Papers	426	1	2	12	12	17	34	61	132	59	47	49	0
Published Proceedings	22	3	7	1	2	1	3	2	1	2	0	0	0
Unpublished Proceedings	31	0	0	0	0	1	1	8	7	5	5	4	0
Selected Papers	155	8	6	3	6	6	10	25	38	36	11	6	0
Posters	40	0	0	0	0	0	0	4	11	13	8	3	1
Seminar Papers	61	0	1	0	3	3	6	17	15	5	4	6	1
Book Reviews	11	0	1	3	3	1	0	0	3	0	0	0	0
Computer Prog and Docs	69	1	1	4	21	9	15	4	6	1	3	3	1
Extension Publications	3	1	0	0	0	0	0	0	2	0	0	0	0
Outreach Presentations	2	0	0	0	1	0	0	1	0	0	0	0	0
Popular Articles	8	0	4	0	0	1	0	0	3	0	0	0	0
Newsletters	53	0	0	0	0	0	3	16	11	9	8	6	0

List of Publications and Presentations

Note in the lists below that the bolded entries are papers written with students for whom McCarl played a significant advising role, along with post doctoral research scientists and research associates working for or with McCarl on funded projects.

Refereed Journal Articles

Chen, Y.B., L.C. Zhao, C.J. Fei, B.A. McCarl, X.G. Wang, M.Q. Liu, D.D. Breshears, X. Feng, E.A. Baldwin, H. Cheng, J.J. Derbridge, J.D. Golding, A.M. Lien, L. Lopez-Hoffman, D.M. McLaughlin, A.L.S. Swann, and J.R. Soto, "Agriculture Economic Implications of Climate Linking Forest Loss to Agriculture Elsewhere in the U.S.", *Nature Communications*, forthcoming, 2026

Dong, C.Y., C.J. Fei, B.A. McCarl, and D. Zilberman, "How Genetically Modified Crops Influence U.S. Crop Yields, Climate Sensitivity and Production Locations", *Nature Climate Change*, forthcoming, 2026

Chen, Y.B., X.Y. Deng, C.J. Fei, B.A. McCarl, J.W. Mjelde, and Y.Y. Xu, "Forecast-based Disruptions in the Energy Sector: Economic Impacts of Anticipatory Hurricane Responses in U.S. Gulf Coast Refineries", *Environmental Research Letters*, 20, 114025, doi10.1088/1748-9326/ae0e3a, 2025

Fang, L., Y. Fu, **E.C.H. Yu**, B.A. McCarl, and C. Hou, "What Does Urban-rural Equality Bring to Gender Equality? A Story of Reduced Gaps in Electrification", *Renewable and Sustainable Energy Reviews*, Volume 223, November 2025, page: 115992, 2025

Fei, C.J., B.A. McCarl**, Y.Q. Yang, A.M. Vargas,** and **A.W. Thayer**, "Differences in Arid Region Water Values Across Sectors: A Discussion of Potential Water Market Activity and Trading Barriers in South Central Texas", *Journal of the American Water Resources Association***,** 15 February 2025 https://doi. org/10.1111/1752-1688.70001, 2025

Fei, C.J., C.C. Kung, B.A. McCarl, and **X.X. Fan**, "The Optimal Development Paths and Processing Strategies of Competing Biofuel and Biopower Technologies in Taiwan", *Renewable Energy*, Volume 245, 1 June 2025, 122853, 2025

Huang, Y.K., W. Attavanich, C.J. Fei, D.B. Han, **T. Jithitikulchai**, and B.A. McCarl, "Dilemma of Co2 Mitigation: Effects of Climate, Co2, and Technological Progress on Rice Yields", *Climate Change Economics*, 16, No.2 (2025) 2550007, 2025

Liu, J.Y., C.J. Fei, and B.A. McCarl, "The Price Gap in Agriculture-based Greenhouse Gas Offset Markets", *Australian Journal of Agricultural and Resource Economics*, 0: 1- 15: https://doi. org/10.1111/1467-8489.7005215, 2025

Da, Y., B.A. McCarl, Y.Y. Xu, and F. Yi, "Climate Change and Winter Wheat Yields: the Roles of Freezing Days and Long-run Adaptations", *European Review of Agricultural Economics*, Volume 51, Issue 3, July, https://doi.org/10.1093/erae/jbae015, 815-843, 2024.

Favero, A., C. Wade, Y.X. **Cai**, S.B. Ohrel, J.S. **Baker**, J. Creason, G.S. Latta, and B.A. McCarl, "Us Land Sector Mitigation Investments and Emissions Implications", *Nature Communications*, 15, Article number: 9625, 2024.

Lei, Y.H., M. **Cheng**, B.A. McCarl, and J. Cessna, "A Review of Options and Costs for Mitigating Ghg Emissions From the Dairy Sector", *Atmosphere*, 15, 926.https://doi.org/10.3390/atmos15080926, 2024.

Prommawin, B., N. Svavasu, S. Tanpraphan, V. Saengavut, T. **Jithitikulchai**, W. Attavanich, and B.A. McCarl, "Impacts of Climate Change and Agricultural Diversification on Agricultural Production Value of Thai Farm Households", *Climatic Change*, 177: 112 https://doi.org/10.1007/s10584-024-03732-3, 2024.

Zhang, K., N.Z. **Liu**, B.A. McCarl, and C.J. **Fei**, "Prospects for and Value Determining Characteristics of Enhancing Agricultural Soil Carbon Sequestration: A Review and Some Potential Research Needs", *Climate*, 12, 151.https://doi.org/10.3390/cli12100151, 2024.

Bell, J., P.B. DeLaune, B.L. Fischer, K.L. Lewis, B.A. McCarl, and J.L. Outlaw, "Carbon sequestration and water management in Texas: One Size does not fit all", *Agrosystems, Geosciences & Environment*, 10.1002/agg2.20372, 6 (2), e20372, 2023.

Fei, C.J., J. Jägermeyr, B.A. McCarl, E. Mencos, C. Mutter, M. Phillips, A.C. Ruane, P. Schultz, and A. Vargo, "Future climate change impacts on U.S. agricultural yields, production, and market", *Anthropocene*, 42 (2023) https://doi.org/10.1016/j.ancene.2023.100386, 2023.

Feng, X., A.L.S. Swann, D.D. Breshears, E. Baldwin, H. Cheng, J.J. Derbridge, C.J. **Fei**, A.M. Lien, L. López-Hoffman, B.A. McCarl, D.M. McLaughlin, and J.R. Soto, "Distance decay and directional diffusion of ecoclimate teleconnections driven by regional-scale tree die-off", *Environmental Research Letters*, 18.11: 114013, 2023.

McCarl, B.A., and C.J. **Fei**, "Agricultural Soils and the Quest for Net Zero Emissions", *Choices*, 38 (4), 2023.

McCarl, B.A., and C.J. **Fei**, "The Role and Use of Mathematical Programming in Agricultural and Natural Resource Climate Change Analysis", *Annual Review of*

Resource Economics, 15, pp 383-406, 2023.
Ogle, S.M., R. Conant, B. Fisher, B. Haya, D. Manning, B.A. McCarl, and T.J. Zelikova, "Policy Challenges to Enhance Soil Carbon Sinks: The Dirty Part of Making Contributions to the Paris Agreement by the United States", *Carbon Management*, 14.1: 2268071, 2023.
Yang, Y.Q., C.J. **Fei**, and B.A. McCarl, "Changes in Electrical Generator Cooling Systems Are They a Cost Effective Source of Water", *Journal of the American Water Resources Association*, 59, Issue 4: Pages: 585-873, 2023.
Cheng, M., B.A. McCarl, and C.J. **Fei**, "Climate Change and Livestock Production: A Review", *Atmosphere*, 13, 140.https://doi.org/10.3390/atmos13010140, 2022.
Fei, C.J., B.A. McCarl, Y.Q. **Yang**, Y.H. **Lei**, L.Y. Li, R. Srinivasan, B. **Sheng**, E.K. Ayana, and X.X. **Fan**, "Impacts of climate change on water management", *Applied Economic Perspectives and Policy*, Volume 44, Issue 3 p.1448-1464, 2022.
Kung, C.C., C.J. **Fei**, B.A. McCarl, and X.X. **Fan**, "A review of biopower and mitigation potential of competing pyrolysis methods", *Renewable & Sustainable Energy Reviews,* https://doi.org/10.1016/j.rser.2022.112443, 2022.
Li, J., X. Li, Y. **Da**, J. Yu, B. Long, C. Bakker, B.A. McCarl, J.S. Yuan, and S.Y. Dai, "Sustainable Environmental Remediation using Biomimetic Multifunctional Lignocellulosic Material", *Nature Communications*, 13, 4368 (2022).https://doi.org/10.1038/s41467-022-31881-5, 2022.
Wade, C., J.P.H. Jones, K. Austin, Y.X. Cai, A. Bean, G. Latta, B.A. McCarl, S. Ohrel, S. Ragnauth, J. Creason, and J.S. **Baker**, "Mitigation potential of the US forest and agriculture sectors across alternative socioeconomic futures", *Journal of Forest Economics,* 37: 127-161, 2022.
Yu, E.C.H., B.A. McCarl, and J.D. Zhu, "Market Response to Typhoons: The Role of Information and Expectations", *Southern Economic Journal*, Volume 89, Issue 2, October, Pages 496-521, 2022.
Zhang, H., J.E. **Mu**, B.A. McCarl, and J. Yu, "The impact of climate change on global energy use", *Mitigation and Adaptation Strategies for Global Change*, 27, Article number: 9, https://doi.org/10.1007/s11027-021-09986-x, 2022.
Cho, S.J., and B.A. McCarl, "Major United States land use as Influenced by an altering climate: a spatial econometric approach", *Land*, 10, 546.https://doi.org/10.3390/land10050546, 2021.
Da, Y., B.A. McCarl, and Y. Xu, "Effects of ozone and climate on historical (1980-2015) crop yields in the United States: implication on mid-21st century projection", *Environmental and Resource Economics*, https://doi.org/10.1007/s10640-021-00629-y, 2021.
Ding, J.X., and B.A. McCarl, "Decadal Climate Variability, Water Availability and Cropping: The Value of Forecast Information in South-Central Texas", *Climate Research*, 83: https://doi.org/10.3354/cr01629, 1-14, 2021.
Fei, C.J., K.M. Williamson, R.T. Woodward, B.A. McCarl, and J. Rangel, "Honey Bees, Almonds, And Colony Mortality: An Economic Analysis of the U.S. Pollination Market", *Land Economics*, 97 (3), 688-703, 2021.
Geismar, H.N., B.A. McCarl, and S.W. Searcy, "Optimal design and operation of a second-generation biofuels supply chain", *Institute of Industrial and Systems Engineers Transactions*, https://doi.org/10.1080/24725854.2021.1956022, 2021.

Hunt, C.L., L. **Yu**, M. Cochran, J.C. Liu, B.A. McCarl, C. Johnson, M. Brun, and M. Berquist, "A Case Study Approach to Analyze High-Containment Laboratory Workflows Promoting Sustainability, Networking, and Innovation", *Animal Health Scientific and Technical Review* Journal, 39 (3), 2021.

McCarl, B.A., E.C.H. **Yu**, and W. **Attavanich**, "Climate Change Impacts and Strategies for Mitigation and Adaptation in Agriculture", *Atmosphere*, 12 (5), 545, https://doi.org/10.3390/atmos12050545, 2021.

Wang, M.L., and B.A. McCarl, "Impacts of Climate Change on Livestock Location in the US: A Statistical Analysis", *Land*, https://doi.org/10.3390/land10111260, 2021.

Wang, M.L., B.A. McCarl, H. **Wei**, and L. **Shiva**, "Unintended Consequences of Agricultural Participation in Voluntary Carbon Markets", *Complexity*, ID 9518135, 17 pages, vol.202, vol.2021, 2021.

Wang, M.L., Y.K. **Huang**, M. **Cheng**, B. **Sheng**, and B.A. McCarl, "El Niño effects and crop yields", CAB Reviews: *Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources,* 16, No.043, 2021.

Yi, F., T. Zhou, L. Yu, B.A. McCarl, Y. Wang, and F. Jiang, "Heat stress and cognition: Effects on those over 40 in China", *Weather and Climate Extremes*, 32 (2021): 100308, 2021.

Ding, J.X., and McCarl, B. A, "Economic and Ecological Impacts of Increased Drought Frequency in the Edwards Aquifer", *Climate*, 8, 2, doi:10.3390/cli8010002, 2020.

Gao, C., C.J. **Fei**, B.A. McCarl, and D. Leatham, "Identifying Vulnerable Households Using Machine Learning", *Sustainability*, 2020, 12, 6002, doi:10.3390/su12156002, 2020.

Kapilakanchana, M., and B.A. McCarl, "The Effect of Technological Progress, Demand, and Energy Policy on Agricultural and Bioenergy Markets", *Atmosphere*, 11, 31, doi:10.3390/atmos11010031, 2020.

Kung, C.C., and B.A. McCarl, "The potential role of renewable electricity generation in Taiwan", *Energy Policy*, https://doi.org/10.1016/j.enpol.2019.111227, Volume 138, 2020.

Rhodes, L.A., and B.A. McCarl, "An Analysis of Climate Impacts on Herbicide, Insecticide, and Fungicide Expenditures", *Agronomy*, 10, 745, doi:10.3390/agronomy10050745, 2020.

Rhodes, L.A., and B.A. McCarl, "The Value of Decadal Climate Variability Information to U.S. Agriculture", *Atmosphere*, 11 (4), 318, https://doi.org/10.3390/atmos11040318, 2020.

Thayer, A.W., A.M. **Vargas**, T.E. Lacher, and B.A. McCarl, "Disconnect within Agriculture and Ecosystem Climate Effects, Adaptations and Policy", *Climate*, 8, 63, doi:10.3390/cli8050063 www.mdpi, 2020.

Sinnarongnd, N., C.C. **Chen**, B.A. McCarl, and B.L. Tran, "Estimating the Potential Effects of Climate Change on Rice Production in Thailand", *Paddy and Water Environment,* 17 (4), 761–769, 2019.

Thayer, A.W., A. **Vargas**, A.A. Castellanos, C.W. Lafon, B.A. McCarl, D. Roelke, K.O. Winemiller, and T.E. Lacher, "Integrating Agriculture and Ecosystems to Find Suitable Adaptations to Climate Change", *Climate*, 8, 10, doi:10.3390/cli8010010, 2019.

Wang, M.Z., M. **Wlodarz**, and B.A. McCarl, "Asset Fixity and Economic Competitiveness of US Ethanol Production", *Biomass and Bioenergy*, 122, 37-44, 2019.

Fei, C.J., and B.A. McCarl, "Addressing uncertainty in adaptation planning for agriculture",

US *CLIVAR Variations*, Summer 2018 • Vol.16, No.3, 2018.
Jithitikulchai, T., B.A. McCarl, and X.M. Wu, "Decadal Climate Variability Impacts on Cropping", *Journal of Agricultural and Applied Economics*, doi:10.1017/aae.2018.25, september, 2018.
Kung, C.C., and B.A. McCarl, "Sustainable Energy Development under Climate Change", *Sustainability*, 10 (9), 3269, https://doi.org/10.3390/su10093269, 2018.
Mu, J.E., and B.A. McCarl, "Economic Impacts of Avian Influenza Disease Mitigation Strategies in USA due to Texas outbreaks", *International Journal of Risk Assessment and Management*, 21.3 (2018):205-214, 2018.
Mu, J.E., J.T. Abatzoglou, B. Sleeter, B.A. McCarl, and H. Zhang, "Adaptation with Climate Uncertainty: An Examination of Agricultural Land Use in the United States", *Land Use Policy*, 77 (2018) 392–401, 2018.
Schneider, U.A., L. Rasche, and B.A. McCarl, "Assessing Economic Impacts of Pesticide Regulations", *Agriculture*, vol.8 (4), pages 1-13, April., 2018.
Yi, F., and B.A. McCarl, "Damages of Surface Ozone: Evidence from Agricultural Sector in China", *Environmental Research Letters,* 13 (2018) 034019, 2018.
Yi, F., and B.A. McCarl, "Increasing the Effectiveness of the Chinese Grain Subsidy: A Quantitative Analysis", *China Agricultural Economic Review,* 10.4 (2018):538-557, 2018.
Yu, E.C.H., and B.A. McCarl, "The Water Implications of Greenhouse Gas Mitigation Through Land Use, Land Use Change, and Forestry", *Sustainability*, 10, no.7 (2018):2367, 2018.
Zhang, H., J.E. **Mu**, and B.A. McCarl, "Adaptation to Climate Change via Adjustment in Land Leasing: Evidence from Wheat Farms in the U.S. Pacific Northwest", *Land Use Policy,* 79 (2018) 424–432, 2018.
Zhang, Y.W., J.E. **Mu**, M. **Musumba**, B.A. McCarl, X. Gu, and Y. Zhou, "The Role of Climate Factors in Shaping China's Crop Mix: An Empirical Exploration", *Sustainability*, 10.10 (2018):3757, 2018.
Cho, S.J., and B.A. McCarl, "Climate change influences on crop mix shifts in the United States", *Scientific Reports*, volume 7, Article number:40845, 2017.
Fei, C.J., B.A. McCarl, and A.W. **Thayer**, "Estimating the impacts of climate change and potential adaptation strategies for the production, transportation, and trade of cereal production in the United States", *Frontiers in Ecology and Evolution*, 15 June, https://doi.org/10.3389/fevo.2017.00062, 2017.
Fei, C.J., B.A. McCarl, and X.X. **Fan**, "Adaptation: An Agricultural Challenge", *Climate*, 5, no.3 (2017):56, 2017.
Jones, J.P.H., M.L. **Wang**, Z.M. **Wang**, and B.A. McCarl, "Policy Uncertainty and US Ethanol Industry", *Sustainability*, 9.11 (2017):2056, 2017.
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Invited Papers

Fei, C.J., and B.A. McCarl, "South Central Tx Water Management A Food-energy-water Nexus and Climate Change Study", Presented at Texas Water Rosources Insititue Water

Day, College Station, April 23, 2025

Liu, M.Q., C.J. Fei, X.G. Wang, L.C. Zhao, B.A. McCarl, and K.O. Fuglie, "Effect of Climate Change and Research on Crop Yield Growth", Presented at AAEA Meetings, Denver at Senior Track Session "Our Technological Past and Future - Where Are We Going, 2025

McCarl, B.A., "Agriculture in the Climatic Squeeze: Opportunities for and Thoughts on Value of Climate Information", Address Presented via Zoom at MDPI World Meteorological Day 2025, 24 March 2025, 2025

McCarl, B.A., "Comments on Farmer Adoption and Payment Design Under Risk: Variability in Soil Carbon Sequestration Across Conservation Practices by Khyati Malik", Boston, Invited comments to NBER Meeting on Risk and Risk Management in the Agricultural Economy, 2025

McCarl, B.A., "Yield Growth Rates, Climate and Research Investment: A Retrospective with An Eye Toward the Future", Presented at AAEA Meetings, Denver at Senior Track Session "Our Technological Past and Future - Where Are We Going, 2025

McCarl, B.A., **Y.B. Chen, C.Y. Dong, C.J. Fei, L.Y. Li, J.Y. Liu, M.Q. Liu, N.Z. Liu, and Y.F. Yang**, "Climate Change - What Do We Do About It? Explorations on Agricultural Adaptation", Invited Keynote at Heartland Workshop, Champaign Illinois, 2025

McCarl, B.A., **Y.B. Chen, C.Y. Dong, C.J. Fei, L.Y. Li, J.Y. Liu, M.Q. Liu, N.Z. Liu, and Y.F. Yang**, "Climate Change - What Do We Do About It? Explorations on Agricultural Adaptation", Invited Seminar, University of Illinios, 2025

McCarl, B.A., and **C.J. Fei**, "Economic Work on the Food Energy Water Nexus", February, Invited presentation delivered via Zoom University of Maryland Global STEWARDS NSF NRT Program, 2025

McCarl, B.A, "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation", Fellows Address, AAEA Meeting, New Orleans, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation", Chung-Hua Institution for Economic Research in Taipei, Taiwan, Nov 9, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation - 1", Department of Agricultural Economics, School of Public Affairs, Zhejiang University, Hangzhou, China, Oct 21, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation -2", School of Agricultural Economics and Rural Development, Renmin University of China, Beijing China, Oct 23, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation -3", Research Institute for Digital Economy and Interdisciplinary Sciences, Southwestern University of Finance and Economics, Chengdu China, Oct 29, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation -4", Department of Public Finance, School of Economics, and Wang Yanan Institute for Studies in Economics, Xiamen

University.Xiamen China, Oct 31, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation -5", Presented at the Taiwan Agriculture Research Institute (TARI), Taichung Taiwan, Nov 4, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation -6", Presented at the Applied Economics Department National Chung Hsing University, Taichung Taiwan, Nov 5, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation -7", Presented at the Department of Information Management, National Kaohsiung University of Science and Technology, Kaohsiung Taiwan, Nov 6, 2024.

McCarl, B.A., "Climate Change - What Do We Do About It? Economic Issues in Considering Agricultural Adaptation and Mitigation -8", Presented at the Climate Service Workshop keynote speech at Central Weather Administration (CWA) in Taipei, taiwan, Nov 7, 2024.

McCarl, B.A., "Permanence and Additionality in Climate Change Mitigation", Presented at USDA OCE Meeting, February, 2024.

McCarl, B.A., C.J. **Fei**, H.B. **Park**, and P. **Arunanondchai**, "Food Energy and Water Implications of Biofuel and Climate Policy", Presented Food-Energy-Water Bioeconomies For Net Zero Transition, March 2024, Knoxville, TN, 2024.

Fei, C.J., L.Y. Li, C.W. Carpenter, Z.N. **Liu**, and B.A. McCarl, "Climate Change Impacts on Agricultural Production, Processing and Transport Costs", Presentation at USDA project meeting for ASTAR, Washington, Aug, 2023.

McCarl, B.A., "Carbon Footprint and Lca", Presented at the School of Public Administration, Southwestern University of Finance and Economics, Chengdu, Sichuan, China, 2023.

McCarl, B.A., "Climate Change, Agricultural Productivity and Ongoing Adaptation: Challenges in Maintaining Regional Productivity", Presented at Korea Rural Economic Institute, Naju, Korea, October, 2023.

McCarl, B.A., "Climate Change, Agricultural Productivity and Ongoing Adaptation: Challenges in Maintaining Regional Productivity", Presented at Climate Change, Agriculture, and Food Security: The Growing Interaction, Kasetsart University, Bangkok, Thailand, October 2023, 2023.

McCarl, B.A., "Economic Explorations on the Climate Change Issue with Emphasis on Agriculture", Presented at Kasetsart University, Bangkok, Thailand, October 2023, 2023.

McCarl, B.A., "Prospects and Problems in Agricultural Participation in Replacing Fossil Fuels with Low Carbon Energy", Presented at meeting sponsored by the five United Nations Regional Commissions and the Ministry of Energy of the Kingdom of Thailand which is the 10th International Symposium on Market-oriented Green & Low-Carbon Development" at session addressing Energy Transition and Energy Security, Bangkok, Thailand, October, 2023.

McCarl, B.A., and C.J. **Fei**, "Agricultural Policy Challenges in A Climate Change Mitigating and Adapting World", Presented at CFARE Preconference Meeting at ASSA Meetings, New Orleans, January, 2023.

McCarl, B.A., and C.J. **Fei**, "Climate Change Adaptation: Needs, Current Status, and Economic Characteristics", Presented at the University of Illinois, CREATE: Center for Climate, Regional, Environmental And Trade Economics, 2023.

McCarl, B.A., and C.J. **Fei**, "Climate Change As A Possible Influence on Supply Chains and Agricultural Research Needs", Presented at 27th Annual International Consortium on Applied Bioeconomy Research meeting in Buenos Aires, Argentina July, 2023.

McCarl, B.A., and C.J. **Fei**, "Climate Change, and Agriculture: Emerging Policy Challenges in Addressing Adaptation and Mitigation", Presented at CFARE sponsored meeting on US Agricultural and environmental policy: opportunities and challenges, AAEA Annual Meeting, Washington DC, July, 2023.

McCarl, B.A., and C.J. **Fei**, "Mathematical Programming for Environmental Sector Modeling Why, How and Some Examples in the Climate Change Context", Presented at Korea Rural Economic Institute, Naju, Korea, October, 2023.

McCarl, B.A., C.J. **Fei**, A. **Ahire**, M. **Cheng**, L.Y. **Li**, Z.N. **Liu**, and K. **Zhang**, "Climate Change As A Possible Influence on the Beef Supply Chain", Presented at TAMU/Berkeley Workshop on Beef Supply April, 2023.

McCarl, B.A., C.J. **Fei**, and Y. **Liu**, "Climate Change, Disasters and Agriculture: Developments, Prospects and Sensitivity", Invited paper presented at CFARE Meeting, New Orleans, January, 2023.

McCarl, B.A., M. **Cheng**, and C.J. **Fei**, "Climate Change and Pest Treatment Costs: What Is Happening", Presented at 2023 Weed Science Society of America and Northeastern Weed Science Society Joint Annual Meeting, VA, Feb, 2023.

Fei, C.J., and B.A. McCarl, "Impacts of Climate Change on Water Management A Food-Energy-Water Nexus Study", Invited Paper NSF PI Workshop, February, 2022.

Fei, C.J., C.W. Carpenter, Z.N. **Liu**, and B.A. McCarl, "Climate Change Impacts on Agricultural Production, Processing/Transport Costs and Food Dollar", Presented at ASTAR Project Meeting, 2022.

McCarl, B.A., and C.J. **Fei**, "Climate Change, Crops and Livestock Developing and Using an Analytical System for Productivity and Economic Studies", Invited Paper for Annual Conference of Rural Economics Society of Taiwan - Delivered Virtually, December, 2022.

McCarl, B.A., and C.J. **Fei**, "What: Texas Agriculture in the Climate Change Squeeze", Presented at Prairie View University Land Grant Seminar Series College of Agriculture and Human Sciences November, 2022.

McCarl, B.A., C.J. **Fei**, and H.B. **Park**, "Can Agriculture Help Us Reach Net Zero Emissions: Possibilities, Problems, Prospects and Policies", Presented virtually for Southwestern University of Finance and Economics Chengdu, China, November, 2022.

McCarl, B.A., C.J. **Fei**, and H.B. **Park**, "Modeling agricultural participation in a lower carbon economy: Economic and Environmental Implications", Presented at Virtual Computing In Engineering Forum 2022, Track 2: Computing for sustainability, University of Wisconsin, 2022.

McCarl, B.A., H.B. **Park**, and C.J. **Fei**, "Agricultural participation in a lower carbon economy: Economic and Environmental Implications", Presented at Conference on Energy 2022 Texas A&M University September, 2022.

McCarl, B.A., H.B. **Park**, and C.J. **Fei**, "Can Agriculture help us reach Net Zero: Possibilities, Problems, Prospects and Policies", Presented at National Climate Service

for Agriculture Conference Virtual Presentation to Taiwan October, 2022.

Fei, C.J., and B.A. McCarl, "Effects of Climate Change on Water Allocation Agriculture in Southwest Texas", Invited Paper to WAEA/AAEA meeting, Aug, 2021.

McCarl, B.A., "Agriculture and Climate Adaptation With Some Emphasis on Action in An Arid Setting", Presented at Fall Event of the NAS Water Science and Technology Board Meeting on Management and Adaptation to Aridification in the Western United States, Virtual, December, 2021.

McCarl, B. A, "Transportation/Infrastructure", Presentation to NAS Board on Atmospheric Sciences and Climate USGCRP Pilot Listening Session, 2021.

McCarl, B.A., "On-Farm Carbon Sequestration Can Agriculture go to the Bank with it?", Invited presentation at July 7th Ag Webinar hosted by The Citizens State Bank & Terra Financial Inc Crop Insurance, 2021.

McCarl, B.A., and C.J. **Fei**, "Agriculture in The Climate Change Squeeze", Presented at Purdue University 2021 Virtual Summer Workshop with Zhejiang University and Nanjing Agricultural University, August, 2021.

McCarl, B.A., and C.J. **Fei**, "Effect of Climate Change and Research on Crop Yield Growth", presented at NC1034 multistate research conference Dec 3-4, 2021.

McCarl, B.A., M. **Cheng**, and L.A. **Rhodes**, "Climate Change Effects on Pesticide Costs: A Statistical Investigation", Presented at the North Central Weed Science Society Meetings, Grand Rapids, Dec, 2021.

McCarl, B.A., and C.J. **Fei**, "Climate Change and Population Growth as they Stress the Food-Energy-Water Nexus", Presented at Energy Institute Lecture Series Texas A&M University Aug, 2020.

McCarl, B.A., and C.J. **Fei**, "Climate Change and Population Growth as they Stress the Food-Energy-Water Nexus: TAMSU- San Antonio", Virtually Presented at graduate seminar at Texas A&M San Antonio Oct, 2020.

McCarl, B.A., and C.J. **Fei**, "Climate Change Challenges for Agriculture & Water Effects, Inevitabilities and Needs to Adapt", Presented at the Sustainable Waco Conference Series, Nov, 2020.

McCarl, B A, "Recent Studies on the Social Economic Impacts of Climate Change Plus a little on DCV", Presented at the Conference on Pan-Pacific Anthropocene (CoPPA) Taipei, Taiwan, May 14, 2019.

McCarl, B.A., "Economic Studies on Climate Change: Approaches and Recent Results", Presented at the Taiwan Chung-Hua Institution for Economic Research, Taipei, May 13, 2019.

McCarl, B.A., "Optimization as part of the applied economists tool box", Presented at Nanjing Agricultural University, Nanjing China, May, 2019.

McCarl, B.A, "The Climate Change Challenge Economic Studies Supporting Decision Making", Presented at Nanjing Agricultural University, May, 2019.

McCarl, B.A., and C.J. **Fei**, "Climate Stresses on the Food Energy Water Nexus in a Water Scarce Area", Presented at Impacts of Climate Change on Food Security, Environment and Economy, Hotel BAREVE, Jeju, Korea, May, 2019.

McCarl, B.A., C.J. **Fei**, and A. **Vargas**, "Economic Studies on Climate Change and Agriculture **Approaches** and Recent Results", Presented at Taiwan Council of Agriculture, Taipei, May, 2019.

McCarl, B.A., C.J. **Fei**, and P. **Arunanondchai**, "Economics and the Food Energy Water

Nexus", University of Maryland, School of Public Health's Grand Round series, College Park, May, 2019.

Daher, B., R.H. Mohtar, K. Portney, E.N. Pistikopolis, and B.A. McCarl, "Texas A&M's Water-Energy-Food Nexus Initiative", Presented at NEXUS 2018:Water, Food, Energy and Climate Conference, Nexus Partnerships:Sharing Experiences and Lessons Learned, University of North Carolina, April, 2019.

McCarl, B.A, "Climate Change: The Near Term Policy Challenge", Presented at a Taiwanese Research Facility In Taichung Taiwan, May, 2018.

McCarl, B.A., "Agricultural Response Modeling An Economic Approach plus Math programming of equilibrium", Presented at Energy Institute Working Group Meeting December, 2018.

McCarl, B.A., "Climate Change, Livestock and the Inevitability of Adaptation", Presented at Agri-Food & Biosciences Institute Belfast, Northern Ireland Aug, 2018.

McCarl, B.A., "Key Factors for Successful Interdisciplinary Climate Related Team Work", Invited paper Taiwan Economic Research Group, 2018.

McCarl, B.A., "Methodological investigations on climate change", Presented at CIER Taiwan, Taipei, May, 2018.

McCarl, B.A., "Recent Findings regarding Impact of Climate Change on agriculture", Presented at Meeting of Central Weather Bureau (CWB) meteorologists, Taiwanese agricultural economists, officials of Council of Agriculture (COA), and CIER researchers, Taipei, Taiwan, May, 2018.

McCarl, B.A., "Teaching and Mentoring international students: Challenges, Reflections, and Suggestions", Presented at AAEA Organized Symposia Accommodating Diverse Cultural Backgrounds among Instructors and Students:Challenges, Reflections, and Suggestions, Washington, August, 2018.

McCarl, B.A., "The Impact of Climate Change on the Crisis of Food Security and Regional Economy", Presented at Taiwanese Economics Daily News Master Economic Forum, Taipei, Taiwan, 2018.

McCarl, B.A., C.J. **Fei**, and Y.Q. **Yang**, "Climate Change, Bioenergy and Population Growth as they Stress the Food-Energy-Water Nexus", Presented at Shanghai Jiao Tong University, Shanghai, China, May, 2018.

McCarl, B.A., C.J. **Fei**, and Y.Q. **Yang**, "Climate Change, Bioenergy and Population Growth as they Stress the Food-Energy-Water Nexus", Presented at Nanjing Agricultural University Conference on Climate Change and Agricultural Bioenergy, Nanjing China, May, 2018.

McCarl, B.A., "Climate Change and Food: A Challenge for Some Global Regions", Presented at Citizens' Climate Lobby Webinar Texas Agricultural Policy and Climate Change, October, 2017.

McCarl, B.A., "Climate Change and Food: A Challenge for Some Global Regions", Presented at Earthday Dallas, April, 2017.

McCarl, B.A., "Climate Change and Production Location: A Challenge for Agribusiness", Presented at International Food and Agribusiness Management Association Meeting, Miami FL, June, 2017.

McCarl, B.A., "Climate Change and Water: A Challenge for SEC Agricultural and Hydrologic Science", Presented at SEC Academic conference on the Future of Water, March, 2017.

McCarl, B.A., "Climate Change and Water: A Challenge for Future Agriculture and Hydrology", Presented at Global Citizenship Campaign Speaker Panel Thursday March 30th, 2017.

McCarl, B.A., "Modeling and Data for WEF Nexus Analysis: A Review of Issues", Presented at TAMU NEXUS Meeting, January, 2017.

McCarl, B.A., "WEF Nexus in the Climate Change Squeeze", Presented at Binational Perspectives on Gulf of Mexico Sustainability Workshop San Miguel de Allende, Mexico, March 8-10, 2017.

McCarl, B.A., " Climate Change and Water: A Challenge for Future Economic Analysis", Presented at 3rd Annual Symposium for Agricultural and Applied Economics Research Texas A&M University, April 7, 2017.

Mohtar, R.H., and B.A. McCarl, "Water-Energy-Food Nexus Initiative", Presented at Energy Institute Advisory Board Meeting, December, 2017.

Kreuter, U.P., B.A. McCarl, and J.L. Heilman, "Climate Change and Agriculture", Presented at COALS Climate change, natural resources, and biodiversity monitoring and adaption Mini-Symposium, Texas A&M University May 19, 2016.

McCarl, B.A., "Climate Change Adaptation and Mitigation Futures: Prospects for 25 and 100 years", Presented at COALS Climate change, natural resources, and biodiversity monitoring and adaption Mini-Symposium, Texas A&M University May 19, 2016.

McCarl, B.A., "Climate Change and the Bioeconomy", Presented at The Bioeconomy:Technological and Policy Path Forward, Rutgers University, October, 2016.

McCarl, B.A., "Climate Change as a Challenge for Agriculture Decision Making Dimensions", Presented at Nanjing Agricultural University Nanjing, November, 2016.

McCarl, B.A., "Climate Change Dimensions, Decision Making and Economics", Presented at TAMU MSC Bethancourt Leadership Group College Station, November, 2016.

McCarl, B.A., "Climate Change, Agriculture and Decision Making What Do Economists Look At", Presented at Nanjing University of Information, Science and Technology, Nanjing, November, 2016.

McCarl, B.A., "Climate Change, Agriculture and Decision Making What Do Economists Look At", Presented at Nanjing Agricultural University Nanjing, 2016.

McCarl, B.A., "Climate Change, Decision Making and Economics", Presented at Southwestern University of Finance and Economics, Chengdu, China, October, 2016.

McCarl, B.A., "Climate Change, Developments, and Decision Making What Role For Economists", Presented at Taiwan Rural Economic Society Meeting Taipei November, 2016.

McCarl, B.A., "Climate Change, the Bioeconomy and Policy", Prersented at TAMU AG ECO Policy Panel, October, 2016.

McCarl, B.A., "Elaborations on Climate Adaptation in U.S. Agriculture aaas", Presented at AAAS Meeting Washington DC, Febr, 2016.

McCarl, B.A., "Energy and the Environment: Concerns for the Future", Presented at Energy and the Environment:Scientific, economic, and legal issues Hawking Auditorium, Mitchell Institute, Texas A&M University April 18, 2016.

McCarl, B.A., "Water Scarcity Forces and influences on Management and Governance", Presented at Coping with water scarcity Beirut, Lebanon, December 2015, 2016.

McCarl, B.A., A.M. Michelson, and J.C. Tracy, "Water Reuse and Desalination: Economic

Considerations and Do we need a New Business Model", Presneted at 2016 Grand Challenge Mini-Symposium on Water Reuse:Use, Quality, Considerations and Economic Feasibility, College of Agriculture and Life Sciences, Texas A&M University, College Station, TX, May 19, 2016.

McCarl, B.A., M.Z. **Wang**, and M. **Kapilakanchana**, "FASOM Projection of Land Use Change and Livestock under RFS2 with Stochastic Technological Progress and Demand", Presented at EXXON, Annodale NJ, November, 2016.

Mohtar, R.H., R. Chedid, B. Daher, S.J. Lee, B.A. McCarl, and K. Portney, "Water Security in Lebanon: A Holistic, Water-Energy-Food Nexus Approach", Presented at Coping with water scarcity Beirut, Lebanon, December 2015, 2016.

Tracy, J.C., and B.A. McCarl, "Climate Change Impacts on Water Resource Management in Texas", US-Korea Conference 2016, August, 2016.

McCarl, B.A., "Agriculture and Bioenergy in the Climate Change Squeeze", Presented at the IPCC meeting entitled A Climate Change Dialog:Risks and Opportunities for the Oil and Gas Industry November, 2015.

McCarl, B.A., "Cellulosic Biofuel's Cloudy Future: Sales Potential, Cost, Marginal Lands, Technology and Logistics", Presented at 8th Annual Berkeley Bioeconomy Conference, 2015.

McCarl, B.A., "Climate Change and Adaptation", Presented at the American Institute of Aeronautics and Astronautics Meeting:Climate Change Engineering, Science and Public Policy Houston, Nov, 2015.

McCarl, B.A., "Climate Change and Environmental Modeling with Mathematical Programming", Presented at University of Houston Department of Industrial Engineering October, 2015.

McCarl, B.A., "Climate Change and Extremes", Presented at the meeting Climate Extremes:A Forum on Adaptation and Building Resilience in Texas, Organized by The Hunt Institute for Engineering and Humanity at Southern Methodist University, September 17, 2015.

McCarl, B.A., "Climate Change and Sectoral trends in the Water Energy Food Nexus", Presented at Future Earth Water-Energy-Food Nexus Workshop Panel on Trends in the W-E-F issues Karlsruhe, Germany, Nov, 2015.

McCarl, B.A., "Climate Change and Southwest Agriculture Vulnerability and Adaptation", Presented at the USDA Southern Plains Climate Hub meeting on the USDA Climate Initiative Fort Worth, October, 2015.

McCarl, B.A., "Climate Change and the Water Energy Food Nexus: Some discussion points", Presented at TAMU/Future Earth Water-Energy-Food Nexus Workshop 1777 F Street, Washington, DC, June 1-3, 2015.

McCarl, B.A., "Climate Change, Choices, Agriculture and the Adaptation Imperative", Presented at CFARE Webinar at USDA, June 3, 2015.

McCarl, B.A., "Economics and the Water Energy Food Nexus: Some discussion points", Presented at TAMU/Future Earth Water-Energy-Food Nexus Workshop 1777 F Street, Washington, DC, June 1-3, 2015.

McCarl, B.A., "Energy, Economics, Climate Change and Soil Security", Presented at Global Soil Security Symposium, College Station, TX, May 19-21, 2015.

McCarl, B.A., "Linked Economic and Environmental Modeling of Water Energy in Support of Decision Making", Presented at the University of Maryland Earth System Science and

Energy Research Center Meeting World Bank, October 27-28, 2015.

McCarl, B.A., "Part 2: Why it's a Problem: Agricultural Impacts", Presented at Agriculture in a Changing Climate:Challenges and Opportunities Feb 21, 2015, College station, 2015.

McCarl, B.A., "Texas in the Climate Change Squeeze: Impacts and What Do We Do?", Presented at Earth Day Texas, Dallas, Fair Park, April 25, 2015.

McCarl, B.A., "What is the decision making issue?", Presented at Climate Change Teaching Workshop on 2/13/2015, Rudder 301 Sponsored by Environmental Programs in the College of Geosciences, 2015.

McCarl, B.A., "What we know about public and private adaptation strategies", Presented at meeting Transitioning Cereal Systems to Adapt to Climate Change, Minneapolis, November, 2015.

Latta, G.S., J.S. **Baker**, R.H. Beach, B.A. McCarl, and S.K. Rose, "A multi-sector intertemporal optimization approach to assess the GHG implications of U.S. forest and agricultural biomass electricity expansion", Presented at Workshop #7:A New Era of Modeling:Evaluating Uncertainties, New Markets, Land Use Competition and Climate Change Shepherdstown, WV, June 1-4, 2014.

McCarl, B.A., "Agriculture, Water Resources and Climate Change", Presented at Water resources under uncertainty and risk to climate change:tools for decision makers in the public and private sector, Santiago, Chile October, 2014.

McCarl, B.A., "Climate Change and Decision Making: An Economic and Agricultural Perspective", Presented at COALS Grand Challenges Mini-Symposia Session on The Energy Complex and its Interactions with Food, the Environment, and Society, May 13, 2014, AgriLife Center, College Station, 2014.

McCarl, B.A., "Climate Change and Decision Making: An Economic and Agricultural Perspective", Presented at Habib University Conference on Climate Change Saturday, 25th of January, 2014 Pearl Continental Hotel, Karachi, Pakistan, 2014.

McCarl, B.A., "Climate Change and Irrigated Agriculture What Do we Know", Presented at Meeting on Sustainability of Engineered Rivers in Arid Lands, Austin, January, 2014.

McCarl, B.A., "Climate Change Economic Effects, Adaptation, Mitigation", Presented at Texas Center for Climate Studies Climate Change Workshop March 17 2014, 2014.

McCarl, B.A., "FASOM Modeling of LCA, Land Use Change and Livestock: Effects of 2nd generation biofuels", Presented at ExxonMobil's 2nd Generation Biofuels Workshop, Annandale, NJ, September 19, 2014.

McCarl, B.A., "Incentivizing Land Based GHG Offsets", Presented at Istanbul Carbon Summit:Carbon Management, Technologies and Trade' on April 3-5, 2014.

McCarl, B.A., R.D. Norton, and X.M. Wu, "Vulnerability to Climate Change in Latin America and Caribbean: A Systems Level Approach", Presented at Interamerican Development Bank, Washington D.C, January, 2014.

Mehta, V.M., N.J. Rosenberg, H. Wang, K. Mendoza, Z. Zhang, C.L. Knutson, N. Wall, T. Haig, B.A. McCarl, M.A. **Fernandez**, A.V. Mehta, S. Popuri, R. Srinivasan, D. Debjani, and P. Daggupati, "Predictability and Prediction of Decadal Climate and its Societal Impacts in the Missouri River Basin: A Regional Study Integrating Earth System, Hydrologic, Agricultural, Economic and Land Use Models", Presented at EaSM PIs' Meeting, Washington, DC, January, 2014.

Dellal, I., and B.A. McCarl, "Food Security and Drought", Presented at FAO and TEMA

Workshop on the Future of Drylands, Ankara, Turkey, 23 December, 2013.

Kung, C.C., B.A. McCarl, and C.C. **Chen**, "Environmental and Economic Effects from Pyrolysis-based Bioenergy: A Case Study with Land Emissions", Presented at Sustainable Asia Conference in Incheon, Korea June, 2013.

McCarl, B.A., "Climate Change and Decision Making: An Economic and Agricultural Perspective", Presented at University of Tennessee Baker Center Interdisciplinary Forum on Environmental Policy November, 2013.

McCarl, B.A., "Climate Change and Environmental Modeling with Mathematical Programming", Presented at Wisconsin Institute for Discovery Seminar Series on Doing Optimization at Wisconsin October, 2013.

McCarl, B.A., "Climate Change: Emerging Findings and Policy Directions", Presented at AAEA Organized Symposia on Economic Implications and Policy Responses to Climate Change, August, 2013.

McCarl, B.A., "US agriculture in the climate change squeeze: Issues with market trading of carbon", Presented at Australian Ag and Res Econ Society Pre-Conference Workshop on Agriculture:Source or Sink? Farm level implications of pricing carbon and policy responses to manage greenhouse gas emissions, February, Sydney, 2013.

McCarl, B.A., and J. **Chen**, "Climate change and conflict", Presented at the Conflict and Development Strategy Workshop in Washington, DC, April 23-25, 2013.

Attavanich, W., B.A. McCarl, Z. **Ahmedov**, S.W. Fuller, and D.V. Vedenov, "Climate Change and Infrastructure: Effects of Climate Change on U.S. Grain Transport", Presented at the USDOT meeting on Systemic Impacts of Climate on Transportation Workshop Arlington, VA on October 11-12, 2012.

McCarl, B.A., "Agriculture in the Climate Change Squeeze: Decision Making Context", Presented at the joint TAMU/Brazil Water Seminar, September 18, 2012.

McCarl, B.A., "Agriculture in the Climate Change Squeeze: Decision Making Context gents", Presented at the TAMU GENTS Meeting September 20, 2012.

McCarl, B.A., "Challenge of Climate Change for Mexican Agriculture: A review and possible decisions", Presented at the Rabobank meeting, New York, November, 2012.

McCarl, B.A., "Climate Change and Water: Economic Research and Policy Efforts", Presented at the Meeting Climate Change Analysis from Science to Politics February 2012 San Jose, Costa Rica, 2012.

McCarl, B.A., "Economics, Agriculture and Climate Change", Presented at the NSF Funded DISCCRS VII Symposium, Colorado Springs, October, 2012.

McCarl, B.A., "Livestock in the Climate Change Squeeze: Decision Making Context", Presented at the Animal Agriculture and Climate Change Southwest Region Advisory Meeting October 31, 2012.

McCarl, B.A., "Some Thoughts on Climate Change as an Agricultural Economic Issue", Presented at the SAEA Lifetime Achievement Symposium February 2012, Burmingham, AL, 2012.

McCarl, B.A., "Uncertainty, Portfolios and GHG Trading", Presented at California Air Resources Board Meeting on uncertainty and discounting September 2012 via Internet, 2012.

McCarl, B.A., and A.D. **Hagerman**, "Economic and Environmental Considerations Regarding Carcass Disposal under a Wide Area Catastrophic FMD incident", Presented at Wide Area Recovery and Resiliency Program Agricultural Waste Disposal Workshop,

Denver, CO, July 17, 2012, 2012.

McCarl, B.A., S. Ohrel, and R.H. Beach, "Evaluating Climate Change and Associated Policy Implications for Agriculture", Presented at ACES and Ecosystem Markets 2012, December 10-14, 2012 at the Marriott Harbor Beach in Ft.Lauderdale, FL, 2012.

Penson Jr., J.B., and B.A. McCarl, "Analysis of Potential Stress Scenarios Facing the Farm Credit System", invited presentation to the Board of Directors, Farm Credit Administration, McLean, Virginia, July 16, 2012, 2012.

McCarl, B.A., "Agricultural Challenges Involving Climate Change and Water: Insights from Economic Studies", Presented at The Role of Carbon Offsets in Climate Policy, Cornell University, May 13-15, 2011.

McCarl, B.A., "Bioenergy Supply Prospects Economic and Policy Explorations", Presented at Texas A&M Energy Engineering Institute Energy Forum 2011 Energy Security And Sustainability:Global Challenges, February, 2011.

McCarl, B.A., "Climate Change and Egypt An Ongoing study on Agriculture", Presented at UNDP meeting, Cairo, July, 2011.

McCarl, B.A., "Climate Change and Water: A Challenge for the Americas", Presented at Conference 'Workshop on Water, Climate and Society in Mexico', Universidad de Guanajuato 11 May - 12 May 2011, Guanajuato, Mexico, 2011.

McCarl, B.A., "Climate Change: A Multidimensional Challenge for Mexico", Presented at XIV Congreso Internacional en Ciencias Agrícolas Instituto de Ciencias Agrícoas, Universidad Autonoma de Baja California October, 2011 Mexicali, Mexico, 2011.

McCarl, B.A., "Economic Impact on Agriculture of 2011 Drought", Presented at Texas Water Symposium Drought:What, Where, Why and When…will it end? Junction, TX, Oct, 2011.

McCarl, B.A., "Energy and Bioenergy Futures Economic and Policy Explorations", Presented at Texas A&M Energy Club, Oct, 2011.

McCarl, B.A., "Impartición del curso Cambio climático: retos en los Agronegocios para México Climate Change: A Multidimensional Challenge for Mexico", Presented at Secretaría de Agricultura Seminar August 12, 2011 Mexico City, Mexico, 2011.

McCarl, B.A., "LCA, Renewable Fuels and modeling: Some thoughts related to FASOM", Presented at 2011 LCA Workshop held at Argonne National Laboratory on October 17-19, 2011, 2011.

McCarl, B.A., "LCA, Uncertainty and is it ahead of data", Presented at Sustainability of Biomass Production for Bioenergy, University of Illinois, October 25, 2011.

McCarl, B.A., "Mitigation of Greenhouse Gas Emissions by Agriculture and Forestry: Economic Explorations", Presented at the ASA, CSSA, and SSSA 2011 Annual Meeting, San Antonio, TX - Oct.16-19, 2011, 2011.

McCarl, B.A., "Soil Sequestration Potential and Economics", Presented at Make Soil, End Global Warming Houston, February, 2011.

McCarl, B.A., "What are Models Saying about the Supply of Bioenergy: Regionally and Temporally: Discussion", Presented at Forestry and Agriculture Greenhouse Gas Modeling Forum Workshop # 6:Forestry, Agriculture and Climate Change Modeling to Support Policy Analyses September 26-29, 2011, Shepherdstown, West Virginia, 2011.

McCarl, B.A., "Will the RFS have any effect: Some Greenhouse Gas and Economic Considerations", Invited paper presented at EBI Biofuels Law and Regulation Conference, April 22, 2011.

Attavanich, W., B.A. McCarl, and R. **Hughes-Fraire**, "Trade Liberalization, Climate Change **Policies**, and the Environment: The Growing Interaction and Impact: Discussion: os", Presented at Invited Paper session, AAEA Meeting, Denver, July, 2010.

Baker, J.S., B.A. McCarl, B.C. Murray, and R.B. Jackson, "Assessing Domestic Land Use Change under Simultaneous Bioenergy and Climate Mitigation Incentives", Presented at the World Congress on Resource Economics, Toronto, 2010.

Dellal, I., and B.A. McCarl, "The Economic Impact of Drought on Agriculture: The Case of Turkey", Presented at the Second International Conference on Drought Management Istanbul / Turkey 4-6 March, 2010.

Hagerman, A.D., and B.A. McCarl, "Show Me The Money: Implications from Economic-Epidemic Impact Analyses", Presented at 2010 FAZD Center Industry Summit College Station, TX, April 13, 2010.

McCarl, B.A., "Agriculture, Climate Change and Adaptation", Presented at Climate Change Vulnerabilities and Opportunities:Michigan and Beyond Michigan State University, East Lansing, April, 2010.

McCarl, B.A., "Agriculture, Climate Change and Public Policies", Presented at Sector agroalimentario y pesquero:nuevas perspectivas, nuevas oportunidades Mexico City, April, 2010.

McCarl, B.A., "Agriculture, Climate Change, Environment and Nitrogen", Presented at Second Annual Environmental Change Institute Summit University of Illinois, November, 2010.

McCarl, B.A., "Biomass Carbon Issues", Presented at The Rural Alliance for Renewable Energy (RARE) Meeting:Biomass in Texas:Can Waste from our Forests and Fields Illuminate our Future? August, 2010.

McCarl, B.A., "Climate Change and Agriculture: Adaptation and Mitigation Policy", Presented at Climate Change and Agriculture:Impacts, Adaptation, and Mitigation Organized Symposia, AAEA Meetings, Denver July, 2010.

McCarl, B.A., "Climate Change: Decision Making Issues", Presented at the TAMU Friends of India Network India Day Panel on Climate Change and India September, 2010.

McCarl, B.A., "Economics and Bioenergy Needs and RFS Analysis", Presented at ARISE Proposal Review Meeting February, 2010.

McCarl, B.A., "Energy and Climate Change: Huge Issues in your Future", Presented at the TAMU LEBA- Latin Economic and Business Association Meeting September, 2010.

McCarl, B.A., "Energy and Climate Change: Huge Issues in your Future", Presented at the Congreso Ingeniería C11:Evolution Starts Now Tecnologico de Monterrey Campus Central de Veracruz, April 2010, Vera Cruz Mexico, 2010.

McCarl, B.A., "FASOMGHG / ASM models", Presented at Agricultural Model Intercomparison and Improvement Project (AgMIP) Workshop, Long Beach, CA, October, 2010.

McCarl, B.A., "FASOMGHG and the Analysis of Economic Impacts of Biofuels Production", Presented to NAS Committee on the Economic and Environmental Impacts of Increasing Biofuels Production Washington, D.C.January 15, 2010.

McCarl, B.A., "FASOMGHG: Biofuel, Land Use and GHG Modeling", Presented at workshop on Land Use and Economic Models of Biofuels Energy Biosciences Institute University of Illinois, Urbana-Champaign, September, 2010.

McCarl, B.A., "Food and Agriculture: Issues and Research Needs", Presented at Panel on

Research Priorities of the Food, Agriculture, Natural Resources, and Environment of 2050 February, TAMU visit of SLoan Foundation, 2010.

McCarl, B.A., "Modeling of Responses to Climate Change: Approaches and Challenges", presented at Congress of of Engineering 'CXI:Evolution Starts Now', Vera Cruz, April, 2010.

McCarl, B.A., "Morphing Research into Policy Advice", Presented at Agricultural and Applied Economics Research:What Makes It Relevant for Policy Advice? Organized Symposia, AAEA Meeting, Denver, July, 2010.

McCarl, B.A., "Potential Impact of Climate Change Policies on Land Use and Food Production", Presented at Alternative Policies on Climate Change and Their Implications on U.S.Agricultural Economy Fargo, North Dakota, May 24, 2010.

McCarl, B.A., "What Does the Future Hold For Energy: Speculations", Presented at Energy Engineering Institute scenario planning meeting College Station, May, 2010.

Rose, S.K., and B.A. McCarl, "U.S. and Regional Agriculture and Forestry Biomass Supply for Electric Generation and GHG Implications", Presented at USDA Bioelectricity Workshop, Washington D.C, November 15, 2010.

Baker, J.S., B.A. McCarl, and B.C. Murray, "Impacts of Cap-and-Trade on Agriculture", Texas Ag Forum Presentation, Austin, June 22, 2009.

Hagerman, A.D., B.A. McCarl, T.E. Carpenter, L. Highfield, and M.A. Ward, "Accounting for risk in economic examination of foot-and-mouth disease mitigation strategies", Presented at DHS Meeting in New Mexico, 2009.

McCarl, B.A., "Agriculture, forestry climate change and offsets", Testimony for the House Subcommittee on Conservation, Credit, Energy and Research December 3, 2009.

McCarl, B.A., "Alternative Policy Approaches to Greenhouse Gas Control", Invited paper presented at Texas Ag Forum, Austin, June 22, 2009.

McCarl, B.A., "BioEnergy and Leakage", Presented at Low Carbon Fuel Standard Summit - 2009, The International Council on Clean Transportation, Washington, Sept 30, 2009.

McCarl, B.A., "Biofuels and Land use change", Presented at Low Carbon Fuel Standard Summit -2009, The International Council on Clean Transportation, Washington, Sept 30, 2009.

McCarl, B.A., "Carbon Cap and Trade What will it do to Ag and forest", Presented at Research Perspectives on Carbon and Climate Change Issues Farm Foundation Forum, Washington, D.C.November 10, 2009.

McCarl, B.A., "Carbon Markets", Presented at NRCS Markets Webinar Organized by CFARE, February, 2009.

McCarl, B.A., "Climate Change and Energy Policy Landscape: Looking Ahead: Some Discussion Points", Presented at the 5th Forestry and Agriculture GHG Modeling Forum, Shepardstown, WV, April, 2009.

McCarl, B.A., "Climate Change and Policy in Texas: One of The Most Vulnerable States?", Presnted at Planet UNT Earth Day Summit Climate Change, Energy Development, and Resource Sustainability, April 22, 2009.

McCarl, B.A., "Climate Change Impacts of Agriculture in Texas", Presented at Global Climate Change:In Search of the Science, University of St.Thomas April 22, 2009.

McCarl, B.A., "Climate change/GHGs impacts legislation and other effects on the ag/biotech/food industry", Invited paper presented at UIC Spring Meeting, Austin, April 29, 2009.

McCarl, B.A., "Domestic effect of more Biofuels: Land use change, LCA, and Leakage", Presented at National Corn Growers Meeting on Land Use and Carbon Impacts of Corn-Based Ethanol, St.Louis, August 25- 26, 2009.

McCarl, B.A., "Economic investigations on Water Impacts of Transportation Biofuels", Presented at U.S.Government Accountability Office and Texas AgriLife Research Discussion on Water Impacts from Transportation Biofuels, College Station, May 6, 2009.

McCarl, B.A., "FASOMGHG Basics and Programming Structure", Presented at USDA meeting on FASOM and Waxman Markey, Washington, July, 20-21, 2009.

McCarl, B.A., "GHG Mitigation Potential in Forestry and Agriculture", presented at National Academy of Science America's Climate Choilce, Limiting Panel, Golden, CO May 27, 2009.

McCarl, B.A., "International Conflict and Cooperation Related Economic issues regarding Biofuels, and Climate Change", Presented at meeting sponsored by Program on International Conflict and Cooperation, TAMU Political Science Department, College Station, May 7, 2009.

McCarl, B.A., "Long term Modeling of Land Use, Climate Change and GHG Policy", Presented at the Long Term Agricultural Modelling Work Shop, November 9-10, 2009 Economic Research Service, 2009.

McCarl, B.A., "Modeling Competition for Land: Some Discussion Points", Presented at the 5th Forestry and Agriculture GHG Modeling Forum, Shepardstown, April, 2009.

McCarl, B.A., "OR Modeling for Climate Change Analysis: Agricultural Related Energy, Climate Change and Farm Policy", Presented at the 16th Annual Industrial Congress, Technologico de Monterrey (ITESM), Monterrey, Mexico, October, 2009.

McCarl, B.A., "Permanence Discounting for Land-Based Carbon Sequestration", Presented at EPRI Greenhouse Gas Emissions Offset Policy Dialogue Workshop #4 Washington, February, 2009.

McCarl, B.A., "PHEVS, Electricity, Renewables and Greenhouse Gases: Economics and the Environment", Presented at PHEV Meeting Austin July 21, 2009.

McCarl, B.A., "Prospects for Food and Water Availability and Quality A view based on Climate Change", Presented at a meeting on Megaregions plus MetroProsperity:Sustainable Economics for the Texas Triangle During panel on Food and water:Are we secure?, Houston, September 24, 2009.

McCarl, B.A., "The Climate Change Squeeze: Research Challenges", Presented at TAMU Student Research Week, March, 2009.

McCarl, B.A., "US /European Collaboration Potential Climate Change, Biofuel and Biosecurity", Presented at TAMU Ag Program Visit of Dr.Laurent Bochereau Jan 27, College Station, 2009.

McCarl, B.A., "What might be done to FASOM", Presented at USDA meeting on FASOM and Waxman Markey, Washington, July, 20-21, 2009.

McCarl, B.A., A.D. **Hagerman**, and R. **Hughes-Fraire**, "RVF Vulnerability and Strategy evaluation", Presented at RVF Expert Consultation, Washington, D. C, Dec 16, 2009.

McCarl, B.A., A.D. **Hagerman**, H.I. **Lin**, J.C. **Looney**, D.A. Bessler, W. **Huang**, Q. **Gao**, Y.H. Jin, B. Norby, L. Highfield, M.A. Ward, and R. **Hu**, "Industry Applications of Modeling Catastrophic Disease Effects in Confined Livestock Operations: Scenarios Modeled Under the Texas High Plains FMD Simulations", Presented at 2009

Department of Homeland Security University Summit, Washington, D.C., March 19, 2009.

McCarl, B.A., A.D. **Hagerman**, H.I. **Lin**, J.C. **Looney**, M.A. Ward, and L. Highfield, "Reducing vulnerability to animal disease: strategies, economic consequences and resilience", Presented at 2009 Department of Homeland Security University Summit Washington, D.C.March 17, 2009.

McCarl, B.A., and R. **Hughes-Fraire**, "RVF Appraising Human Vulnerability", Presented at RVF Expert **Consultation**, Washington, D.C, Dec 16, 2009.

McCarl, B.A., and R. Srinivasan, "Linking Biophysical with Economic Models for Impact Assessments", Invited Paper at World Bank Water Week Session 26, Modeling Tools for Agricultural Water Management, Washington, Feb 18, 2009.

Mu, J.E., D.A. Bessler, and B.A. McCarl, "Avian Influenza Information: Economic Effects on U.S. Meat Markets", Presented at FAZD Annual Meeting, College Station, June, 2009.

Rose, S.K., B.A. McCarl, B.C. Murray, and F. de la Chesnaye, "Potential for Agricultural and Forest GHG Mitigation in the U. S", EPRI Greenhouse Gas Emissions Offset Policy Dialogue, Workshop 4 February 19, 2009.

Yu, T.H.E., M.K. Kim, and B.A. McCarl, "Trade Liberalization, Climate Change Policies, and the Environment: The Growing Interaction and Impact", An Invited Paper Session at the 2010 AAEA Meetings Denver, CO, July 25 - 27 (accepted), 2009.

Carpenter, T.E., and B.A. McCarl, "Integrating Epidemic and Economic Models", Presented at FAZD Annual Meeting, February 2008, College Station, 2008.

Kim, M.K., and B.A. McCarl, "Carbon Sequestration and Its Trading in U. S", Presented at International Symposium on Climate Change, Seol Korea, September 9, 2008.

McCarl, B.A., "Adaptation to Climate Change: Issues and Modeling", Presented at Methodology Pre-Workshop for Vulnerability to CC BMZ Project IFPRI, Washington DC, March 19, 2008.

McCarl, B.A., "Agriculture, Climate Change Mitigation and Biofuels: Economic Explorations", Invited Keynote Presented at Belly Klepper Lecture During Annual Joint Meeting of Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, and the Gulf Coast Association of Geological Societies, October, Houston, TX, 2008.

McCarl, B.A., "Bioenergy in a Greenhouse Gas Mitigating World", Presented at AAEA Meeting on Environmental Choices:Outlook and Investigation on Climate Change as it Relates to Agriculture and Natural Resources Washington DC, ERS, April 1, 2008.

McCarl, B.A., "BioEnergy Lifecycle Carbon Footprint, and Leakage", Presented at Farm Foundation meeting on Lifecycle Carbon Footprint of Biofuels, National Press Club, Washington, DC April 8, 2008.

McCarl, B.A., "BioEnergy Sorghum, Lifecycle Carbon Footprint, Market Impacts and Leakage", Presented at International Workshop/Conference On Sorghum For Biofuels, Houston, TX August 19, 2008.

McCarl, B.A., "Bioenergy: A View of the Economic Future", Presented at The Academy of Medicine, Engineering, and Science of Texas and TAMU conference on The Business of Fueling the Future - Earth, Wind, and Sun, March, 2008.

McCarl, B.A., "Bioenergy: How strong will the future market be?", Presented at TAMU Sigma Xi Meeting, Biofuels:Do they have a future? March, 2008.

McCarl, B.A., "Biofuels and Greenhouse Gasses: Economics of Offsets and Leakage", Presentation at University of Illinois, May, 2008.

McCarl, B.A., "Biofuels in a GHG Mitigating World: LCA, Leakage and Indirect Land Use", Presented at 3rd Annual Midwest Ag Energy Network Summit:Policies to Prosper in the New Carbon Economy, Crowne Plaza, Chicago O'Hare, Dec 15, 2008.

McCarl, B.A., "Biofuels, Climate Change and Agricultural Research: Opportunities and Challenges", Paper given at the NC-1034 symposium on 'Energy and Agriculture:Emerging Policy and R and D Issues', Washington, DC, March 7-8, 2008.

McCarl, B.A., "Biofuels: A View of the Economic Future", Presented at the meeting The business of fueling the future, College Station, TX, March, 2008.

McCarl, B.A., "Bryan and Texas in the Climate Change Squeeze: Highly Vulnerable Places?", Presented to City of Bryan Green Team, Bryan, September, 2008.

McCarl, B.A., "Climate Change and Social Justice", Presented at Does Agriculture equal a War on Nature? Association for Social Entrepreneurship Teachin, Texas A&M Campus, Koldus Bulding, February, 2008.

McCarl, B.A., "Climate Change and Texas Water: An Economic Investigation", Presented at the meeting Climate Change Impacts on Texas Water, Texas State Capitol Extension, Austin, Texas, April 28-30, 2008.

McCarl, B.A., "Climate Change and Water: Physical and Economic Sensitivity", Presented as Plenary Keynote at the 2008 UCOWR/NIWR Conference, Durham, North Carolina, July 23, 2008.

McCarl, B.A., "Climate Change, Edwards Aquifer Water, Agriculture and the Environment: An Economic Investigation", Presented at Meeting of Edwards Aquifer Recovery Implementation Program, August 14, 2008, Seguin, 2008.

McCarl, B.A., "Climate Change, Texas Water, Agriculture and the Environment: An Economic Investigation", Sponsored by Texas Water Development Board, Presented at Far West Texas Climate Change Conference El Paso, June 17, 2008.

McCarl, B.A., "Efforts on Foreign Animal and Zoonotic Disease Consequemce Modeling: Economic efforts at the FAZD Center", Presented at the U.S.Department of Homeland Security Agriculture, Food, and Microbial Risk Consequence Modeling Workshop, Lansdowne, VA September, 2008.

McCarl, B.A., "Global Climate Change Impacts on Water and the Economy: Implications for Research", Invited Paper Presented at 2008 International SWAT Conference, October 15-19, 2008, Beijing, China, 2008.

McCarl, B.A., "Lifecycle Carbon Footprint, Bioenergy and Leakage", Presented at Farm Foundation and USDA meeting on The Lifecycle Carbon Footprint of Biofuels Miami, Fl, January 29, 2008.

McCarl, B.A., "Lifecycle Footprint, Bioenergy and Leakage: Some Considerations", Invited paper Presented at 29th Annual Agricultural Law Symposium, Minneapolis, MN, October, 2008.

McCarl, B.A., "Linking Economic and Biophysical Models for Climate Change and Biofuel Analysis", Invited Paper at Meeting Biophysical and Economic Models of Biofuel Production and Environmental Impacts, Chicago, Nov.13-15, 2008.

McCarl, B.A., "OR Modeling for Government Policy Analysis: Agricultural related energy, climate change and farm policy", INFORMS Conference Applying Science to the Art of Business April 13-15, 2008 Baltimore Marriott Waterfront Baltimore, Maryland, 2008.

McCarl, B.A., "Pyrolysis, Biochar, and Crop Residues: Is this an Economic Proposition?", Invited Paper Presented at Annual Joint Meeting of Geological Society of America (GSA), Soil Science Society of America (SSSA), American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and the Gulf Coast Association of Geological Societies, Houston, October, 2008.

McCarl, B.A., "Texas in the Climate Change Squeeze: A Highly Vulnerable State", Presented at MSC SCONA Conference, Texas A&M University, College Station, February, 2008.

McCarl, B.A., "Texas in the Climate Change Squeeze: One of The Most Vulnerable States?", National Association of Retired Federal Employees Meeting, College Station, April 2008, 2008.

McCarl, B.A., "The Globe the Climate Change Squeeze: Are we Vulnerable?", Jordan Institute Lecture, Texas A&M University, College Station, March, 2008.

McCarl, B.A., "US Bioenergy: Potential, Policy and Economic/Climate Change Concerns", Invited paper presented at Transatlantic Climate and Energy Cooperation:The Way Forward A German-U.S.Dialogue, Washington, DC, November 17, 2008.

McCarl, B.A., "Will Bioenergy be Profitable: Markets, Lifecycle Carbon Footprint, Commodity Prices and Leakage", Invited paper presented at GROW III - Oklahoma Conference on Biofuels, Oklahoma City, OK November 12, 2008.

McCarl, B.A., and A.D**. Hagerman**, "Effects of Biosecurity Risk and Food Scare Events on Food Prices and Demand: Discussion", Presented at AAEA Meetings, Orlando, July, 2008.

McCarl, B.A., and B.L. Sohngen, "Climate Change Squeeze: Impacts, Adaptation, and Mitigation in Agriculture and Forestry", Presented at National Coalition for Food and Agriculture Research, 2008 Hill Seminar Series Washington DC, March 31, 2008.

McCarl, B.A., and Y.H. Jin, "Economic Consequence Modeling on Foreign Animal and Zoonotic Diseases", Presented at 2008 Institute of Medicine (IOM) and the National Research Council (NRC) Meeting on “Achieving Sustainable Global Capacity for Surveillance and Response to Emerging Diseases of Zoonotic Origin, Woods Hole, MA, September 30, 2008.

McCarl, B.A., C. Peacocke, R. Chrisman, C.C. **Kung**, and R.D. Sands, "Economics of Biochar Production, Utilisation and GHG Offsets", Presented at International Biochar Initiative Conference, Newcastle upon Tyne, UK September 9, 2008.

McCarl, B.A., X. **Villavicencio**, and X.M. Wu, "Climate Change, Variability and Future Risk Management", Presented at AAEA Annual Meeting, Orlando, FL, July, 2008, 2008.

Elbakidze, L., and B.A. McCarl, "Mitigation of Infectious Animal Disease Outbreaks: Economic Issues and Modeling", Presented at meeting of NC-1016 Regional Research committee and AAEA FAMPS entitled Bio-terrorism and Natural Disasters:Market and Policy Responses, March 22-23, Washington D.C, 2007.

Hartley, D.M., T.L. Nipp, B.A. McCarl, and others, "NCFAZDD Rift Valley Fever Modeling", Presentation to DHS, 2007.

McCarl, B.A., "Agriculture in the Climate Change Squeeze - Climate Sensitivity in Texas and Turkey", Presented at the International congress about Global Climate Change and Environmental Effects, Konya, Turkey, October, 2007.

McCarl, B.A., "Biofuels and Environmental Improvement: Agricultural Contributions",

Presented at National Biodiesel Conference and Expo 2007, San Antonio, Texas, February, 2007.

McCarl, B.A., "Biofuels and Legislation Linking Biofuel Supply and Demand using the FASOMGHG model", Presented at Duke University, Nicolas Institute Conference:Economic Modeling of Federal Climate Proposals:Advancing Model Transparency and Technology Policy Development, Washington DC, July, 2007.

McCarl, B.A., "Biofuels from Agriculture: Dreams, Economics and Climate Policy Influences", Presented at National Renewable Energy Laboratory, Golden CO, Aug, 2007, 2007.

McCarl, B.A., "Biofuels in the Greenhouse Sequestration, Offsets, Emission Reduction and Economics", Presented at Fueling Change with Renewable Energy, April, 2007 at the University of Illinois at Urbana-Champaign, 2007.

McCarl, B.A., "Biofuels raised in the Greenhouse An Economic Perspective", Presented at meeting on Intersection of Energy and Agriculture:Implications of Biofuels and the Search for a Fuel of the Future University of California, Berkeley October 5, 2007.

McCarl, B.A., "Biofuels raised in the Greenhouse An Economic Perspective Part 2 Electricity", Presented at 2007 George Bush China-US relations Conference on Development, Energy, and Security, Washington DC, October 22-25, 2007.

McCarl, B.A., "Biofuels raised in the Greenhouse An Economic Perspective Part I Liquid Fuels", Presented at 2007 George Bush China-US relations Conference on Development, Energy, and Security Washington DC, October 22-25, 2007.

McCarl, B.A., "Biofuels: Will We See More? An Economists View osu", Presented at The Future of Renewable Energy in Ohio.Department of Agricultural Economics, Ohio State University, Columbus, March, 2007.

McCarl, B.A., "Biomass and environmental policy modeling: An application of the FASOMGHG Model", Presented at the Annual Meetings of the American Agricultural Economics Association Portland, OR, July, 2007.

McCarl, B.A., "Climate Change Effects and Mitigation: Forestry Economic Consequences and Modeling Ramblings from an ongoing and never ending effort", Presented at SOFEW Meeting San Antonio, March, 2007.

McCarl, B.A., "Data needs of a Climate Change, Animal Disease and Environmental Modeler", Presented at USDA, ERS Meeting on Data Needs for Agri-Environmental Policy Modeling and Analysis Washington D.C., October 15, 2007.

McCarl, B.A., "Food, Fibre, and Forest Products Impacts: WGII Economic and Biophysical Effects plus Thoughts on Adaptation and Effects work", Presented at the Energy Modeling Forum Workshop on Climate Change Impacts and Integrated Assessment Snowmass, Colorado, July, 2007.

McCarl, B.A., "How Feasible Are Dreams of Biofuels? An economic view and analysis", Presented at Norwegian Agricultural Economics Research Institute, October, 2007.

McCarl, B.A., "How Feasible Are Dreams of Biofuels? Opinions and analysis with a view toward GHGs", Presented at Forestry and Agriculture Greenhouse Gas Modeling Forum # 4:Modeling Agricultural-Forest Offsets and Biofuels in US and Canadian Regional and National Mitigation March 6-8, 2007 – Shepherdstown, West Virginia, NCTC, 2007.

McCarl, B.A., "Markets, Taxes, Biofuels and Agriculture all living in the Greenhouse: An Economic Perspective", Presented at the American Farm Bureau Energy and Carbon Conference Omaha, Nebraska, October, 2007.

McCarl, B.A., "Presentation on Adaptation Costs in Agriculture, Fisheries and Forestry", Presented at UNFCCC Workshop On Finance and Investment Flows to Address Climate Change:The Way Forward, Bonn Germany, Oct 31, 2007.

McCarl, B.A., "Texas in the Climate Change and Energy Squeeze", Presented at the Annual Meeting of the Texas Economic Development Council, Amarillo, July 12, 2007, 2007.

McCarl, B.A., "Texas in the Climate Change Squeeze: The Most Vulnerable State?", 2007 Sigma Xi Distinguished Scientist Lecture, Texas A&M University, College Station, November, 2007.

McCarl, B.A., "Texas in the Climate Change Squeeze: The Most Vulnerable State? Plus A few thoughts on A Satisfying Career", Presented to Alpha Gamma Rho fraternity, Nov 14, 2007 Texas A&M University, College Station, 2007.

McCarl, B.A., "US Agriculture and the Climate Change/Energy Squeeze Part I Climate Change Effects", Presented at the USDA ARS, Fort Collins, Aug 14, 2007.

McCarl, B.A., "What are the environmental implications of increased biofuel use in the US, and how can we model them", Part of a Panel Presented at Forestry and Agriculture Greenhouse Gas Modeling Forum # 4:Modeling Ag-Forest Offsets and Biofuels in US and Canadian Regional and National Mitigation, Shepherdstown, West Virginia, NCTC, March 6-8, 2007.

McCarl, B.A., and I. Dellal, "Agriculture in the Climate Change Squeeze - Texas and Turkey", Presented at Conference on Climate Change and Drought, Ankara, Turkey Oct, 2007.

McCarl, B.A., and L. **Elbakidze**, "Economic Evaluation of Preparedness, Response, and Recovery strategies", Presented at the DHS Research and Education Summit, Washington, March 15-16, 2007.

You, W., B.A. McCarl, and G.C. Davis, "Incorporating Convenience and Time Dimensions in TFP Type Market Baskets", Presented at USDA ERS, Food and Nutrition Group (Biing Hwan Lin), Washington, March, 2007.

Elbakidze, L., and B.A. McCarl, "Bio-Security and the US Livestock Sector: Trading off Prevention and Response", Invited paper Meetings of Southern Agricultural Economics Association, Orlando, 2006.

Elbakidze, L., B.A. McCarl, M.A. Ward, and J.B. Carey, "Modeling and Economic Evaluation of Effectiveness of Avian Influenza Mitigation Options", ERS, USDA, Washington, D.C.October, presented at Program of Research on the Economics of Invasive Species Management, 2006.

Gan, J., B.A. McCarl, and J.W. Mjelde, "Effects of Climate Change, Forest Certification, Biotechnology, and Industrial Concentration on the US Forest Products Industry and Trade: Presentation", Presented at Agricultural Markets and Trade Project Directors Meeting Washington, DC, June 15, 2006.

Jin, Y.H., Q. **Gao**, B.A. McCarl, and M.A. Ward, "Costs of Contaminated Animal Carcass Disposal under Trial Events", Presented at Carcass Disposal Conference, Baltimore MD, December, 2006.

McCarl, B.A., "Biofuel Based GHG Mitigation and Energy Security Enhancement: An Analysis of Agricultural Contributions", Presentation at Texas A&M energy Meeting, The Energy Policy Act of 2005:One Year Later-A Look to the Future September, 2006.

McCarl, B.A., "Biofuels: Will We See More? An Economists View and Modeling Perspective", Presented at Economic, Energy and Environment (3E) Modeling

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Workshop, Taipei Taiwan, Dec, 2006.

McCarl, B.A., "Biofuels: Will We See More? An Economists View tre", Presented at Texas Renewable Energy Industries Association, Texas Renewables 06 Conference, Austin Nov 13, 2006.

McCarl, B.A., "Biofuels: Will We See More? An Economists Views", Keynote Address to Taiwanese Agricultural Economics Association, Taipei, Taiwan Dec, 2006.

McCarl, B.A., "Economic Explorations of Biofuel Possibilities and Greenhouse Gas Emission Mitigation Role", Presented at EMF Land use meeting February 2, 2006, Washington D.C, 2006.

McCarl, B.A., "FASOMGHG2, Stabilization Scenarios and other items", Presented at Land Modeling Subgroup Session EMF-22 meetings Tokyo, Japan, December, 2006.

McCarl, B.A., "Potential Impacts of Global Warming on Texas Agriculture Water Related Issues", Presented at Environmental Defense Conference Global Warming and Texas Water Austin, TX Friday, May 12th, 2006.

McCarl, B.A., Y.H. Jin, Q. **Gao**, R. Srinivasan, and J.H. Jacobs, "Economic and Environmental Considerations in Carcass Disposal", Presented at FAZD Conference Emergency Management of Mass Animal Mortality Austin TX, Nov 13-14, 2006.

McCarl, B.A., "Agricultural and Social Issues: Work by TAMU Agricultural and Resource Economists that might play a role in proposal", Presented at Meeting on Texas Hydrologic Observatory for the Guadalupe, San Antonio River Basins January 25, 2005 at the Texas Water Resources Institute, 2005.

McCarl, B.A., "Economic Analysis of Events and Response", Moderator of Session at First Annual IFT Food Protection and Defense Research Conference, Atlanta, November, 2005.

McCarl, B.A., "Economics Efforts Under FAZDD Informatics, Modeling, and Analysis (IMA)", Presented at Joint Meeting of USDA, FAZD and Lawrence Livermore on Animal Disease Modeling, Fort Collins Colorado, April, 2005.

McCarl, B.A., "Market Trading and GHGs Why trade? Where does it happen? Why an Agriculturalist?", Presented at Symposium on Improved Profits Through Best Managed Practice, Tuesday, November 1, 2005 Holiday Inn Emerald Beach, Corpus Christi, Texas, 2005.

Wiborg, T., B.A. McCarl, S. Rasmussen, and U.A. **Schneider**, "Aggregation and Calibration of Agricultural Sector Models Through Crop Mix Restrictions and Marginal Profit Adjustments", Presented at the PMP, Extensions and Alternative Methods, Organised Session of the XIth EAAE European Association of Agricultural Economists Congress, The Future of Rural Europe in the Global Agri-Food System, Copenhagen, Denmark, August 23-27, 2005.

Butt, T.A., B.A. McCarl, J.P. Angerer, I. Dellal, P.R. Dyke, M.K. **Kim**, R.J. Kaitho, and J.W. Stuth, "Agricultural Climate Change Impacts Findings from Mali, Kenya, Uganda, Senegal, Turkey, and the US", Presented at the Energy Modeling Forum Meetings, Snowmass, CO, July, 2004.

Butt, T.A., B.A. McCarl, J.P. Angerer, P.R. Dyke, M.K. **Kim**, R.J. Kaitho, and J.W. Stuth, "Agricultural Climate Change Impact General Concerns and Findings from Mali, Kenya, Uganda, and Senegal", Presented at USAID sponsored SANREM CRSP Accomplishments and Lessons Learned Workshop, Washington D.C., June 16, 2004.

McCarl, B.A., "Agricultural and Carbon Sequestration FASOM and IAM Models",

Presented at EPA GTAP meeting on Land Use and Integrated Assessment Workshop, Washington DC, May 24-26, 2004.

McCarl, B.A., "Agriculture, Climate Change and Climate Change Mitigation", Presented at Texas Recycling and Sustainability Summit San Antonio, September 29, 2004.

McCarl, B.A., "An Economic Exploration of Biofuel based Greenhouse Gas Emission Mitigation", Presented at USDA/Farm Foundation Workshop on Agriculture as a Producer and Consumer of Energy, Washington D.C.June 24-25, 2004.

McCarl, B.A., "Climate change Mitigation as a stimulus for biofuel adoption: An economic evaluation", Presented at NSF MUSES sponsored Workshop on the Economic and Environmental Impacts of Bio-Based Production, University of Illinois at Chicago June 8-9, 2004.

McCarl, B.A., "Comments on Activity Report on Sustaining Agriculture and Combating Land Degradation", Presented at US Interagency workgroup sponsored Workshop on the Interagency Global Earth Observing System, Reston, VA, May, 2004.

McCarl, B.A., "Discounts, Fungibility and Agricultural GHG Offset projects", Presented at Agricultural Modeling Forum Meeting, Shepardstown, WV, October, 2004.

McCarl, B.A., "Economics and Agri-Food System Terrorism", Presentation for CFARE to Homeland Security and Government Affairs committees, 2004.

McCarl, B.A., "Insights from Agricultural GHG Offset studies", Presented at EPRI Workshop on Terrestrial Carbon Sequestration, Alexandria VA, October 19-21, 2004.

McCarl, B.A., "Insights from Agricultural GHG Offset studies that might Influence IAM Modeling", Presented at Energy Modeling Forum Meeting, Snowmass, CO, August, 2004.

Butt, T.A., and B.A. McCarl, "Climate Change Impact in the Developing Countries: A Case Study from Mali", Presented at Climate Change, Carbon Dynamics and World Food Security, 10-11 June 2003, Columbus, OH, 2003.

Johnson, D.E., H.W. Phetteplace, A.F. Seidl, U.A. **Schneider**, and B.A. McCarl, "Management variations for US beef production systems: effects on Greenhouse Gas Emissions and profitability", Presentation at 3rd International Methane and Nitrous Oxide Mitigation Conference, Beijing, China, December, 2003.

Johnson, D.E., H.W. Phetteplace, A.F. Seidl, U.A. **Schneider**, and B.A. McCarl, "Selected Variations in Management of US Dairy Production Systems: Implications for Whole Farm Greenhouse Gas Emissions and Economic Returns", Presentation at 3rd International Methane and Nitrous Oxide Mitigation Conference, Beijing, China, December, 2003.

McCarl, B.A., "Climate Change and Irrigation US Based Assessments", Paper presented at Energy Modeling Forum Meetings, Snowmass, Colorado, July, 2003.

McCarl, B.A., "Comments on Integrated Environmental/Economic Modeling and Analysis Effort of the Strategic Policy Branch Agriculture and Agri-food Canada", Presented at the Agriculture Canada Workshop to Review the Analytical Tools and Analytical Needs of AAFC, Ottawa, May 29-30, 2003.

McCarl, B.A., "Economic Analysis of Pests as influenced by Climate Change Implications for US Agriculture", Presented at the National IPM Symposium Indianapolis, IN, April, 2003.

McCarl, B.A., "GAMS as a Tool for Applied Analysis: Significance, and the Future", Presented at the Celebration of Alex Meeraus' 60th Birthday, Washington, September,

2003.

McCarl, B.A., "On-Farm Carbon Sequestration? Can a farmer make some money at it?", Presented at Purdue Top Farmer Workshop, West Lafayette, IN, July, 2003.

McCarl, B.A., "Panel member on discussion on Acceptable Error", Panel presented at the CASMGS sponsored Carbon Measurement and Monitoring Forum, Manhattan, KS October 15-17, 2003.

McCarl, B.A., and M.K. **Kim**, "Can You Sell All That You Measure?", Presented at the CASMGS sponsored Carbon Measurement and Monitoring Forum, Manhattan, KS October 15-17, 2003.

McCarl, B.A., B.C. Murray, F. de la Chesnaye, and K. Andrasko, "Assessing Economic Potential for GHG Offsets in US Agriculture and Forestry Using FASOMGHG", Presented to Staff of the Council of Economic Advisors and Energy Information Agency, 2003.

McCarl, B.A., H.C. **Lee**, and D. **Gillig**, "Assessing Economic Potential for GHG Offsets in US Agriculture and Forestry", Presented at Workshop on Transition in agriculture and future land use patterns LEI, Wageningen University, Dec 1-3, 2003.

McCarl, B.A., U.A. **Schneider**, D. **Gillig**, H.C. **Lee**, and F. de la Chesnaye, "Economic Potential of Agricultural Non-CO2 Greenhouse Gas Mitigation: An Investigation in the United States", Presentation at 3rd International Methane and Nitrous Oxide Mitigation Conference, Beijing, China, December, 2003.

Mearns, L.O., G. Carbone, R.M. Doherty, E. Tsvetsinskaya, B.A. McCarl, R.M. Adams, and L. McDaniel, "The Uncertainty due to Spatial Scale of Climate Scenarios in Integrated Assessments: An Example from US Agriculture", Presented at the Conference Monsoon environments:Agricultural and hydrological impacts of seasonal variability and climate change, 24th-28th March 2003 at the International Centre for Theoretical Physics (ICTP), Trieste, 2003.

de la Chesnaye, F., and B.A. McCarl, "Carbon Sequestration in Forests: An investigation of Economic Potential and Market Design Challenges: Presented", Presented at the Mexico-US Economic and Environmental Modeling Workshop Cuidad de México, November, 2002.

McCarl, B.A., "Assessment of GHG Mitigation Opportunities in the US Forest and Agricultural Sectors", Presented at the Forestry and Agriculture Greenhouse Gas Modeling Forum, Shepherdstown, WV, October, 2002.

McCarl, B.A., "Assessment of GHG Mitigation Opportunities in US Forest and Agricultural Sectors", Presented at 1st Agricultural GHG Mitigation Experts Meeting, Non-CO2 Network Project on Agricultural GHG Mitigation, Washington DC, December, 2002.

McCarl, B.A., "Carbon Sequestration in Forests and Agriculture: Musings on Kyoto, Potential and Challenges", Presented at Electric Power Research Institute Meeting, San Francisco, March 13, 2002.

McCarl, B.A., "Co-Benefits: why do we care", Agricultural modeling forum Shepardstown WV, 2002.

McCarl, B.A., "GHG Abatement and US Agriculture: Consideration in CGE Analyses", Presented at Workshop on the Incorporation of Land Use and Greenhouse Gas Emissions into the Global Trade Analysis Project (GTAP) Data Base, Cambridge, MA, September 5-6, 2002.

McCarl, B.A., "Including Potential Greenhouse Gas Emission Mitigation from Forests and

Agriculture In Integrated Assessment", Presented at EMF-21 Meeting Washington, DC December, 2002.

McCarl, B.A., "Including Potential Greenhouse Gas Emission Mitigation from Forests and Agriculture In Integrated Assessment", Presented at EMF-21 study organization meeting, College Park, MD, May, 2002.

McCarl, B.A., and H.C. Lee, "Carbon Sequestration in Forests: An investigation of Economic Potential and Market Design Challenges", Presented at the Taiwan Forestry Research Institute Symposium on Forest Carbon Sequestration and Monitoring, November, 2002.

McCarl, B.A., U.A. Schneider, and D. Gillig, "Economic Potential for Soil Carbon Sequestration: Concepts and Challenges", Presented at Soil Science Society of America Symposium on Carbon Accounting, Indianapolis, November, 2002.

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McCarl, B.A., A.M. Michelson, and J.C. Tracy, "Water Reuse and Desalination: Economic Considerations and Do we need a New Business Model", Presneted at 2016 Grand Challenge Mini-Symposium on Water Reuse: Use, Quality, Considerations and Economic Feasibility, College of Agriculture and Life Sciences, Texas A and M University, College Station, TX, May 19, 2016.

McCarl, B.A., Z.M. **Wang**, and M. **Kapilakanchana**, "FASOM Projection of Land Use Change and Livestock under RFS2 with Stochastic Technological Progress and Demand", Presented at EXXON, Annodale NJ, November, 2016.

Mohtar, R.H., R. Chedid, B. Daher, S.J. Lee, B.A. McCarl, and K. Portney, "Water Security in Lebanon :A Holistic, Water-Energy-Food Nexus Approach", Presented at Coping with water scarcity Beirut, Lebanon, December 2015, 2016.

Tracy, J.C., and B.A. McCarl, "Climate Change Impacts on Water Resource Management in Texas", US-Korea Conference 2016, August, 2016.

McCarl, B.A., "Agriculture and Bioenergy in the Climate Change Squeeze", Presented at the IPCC meeting entitled A Climate Change Dialog: Risks and Opportunities for the Oil and Gas Industry November, 2015.

McCarl, B.A., "Cellulosic Biofuel's Cloudy Future: Sales Potential, Cost, Marginal Lands, Technology and Logistics", Presented at 8th Annual Berkeley Bioeconomy Conference, 2015.

McCarl, B.A., "Climate Change and Adaptation", Presented at the American Institute of Aeronautics and Astronautics Meeting: Climate Change Engineering, Science & Public Policy Houston, Nov, 2015.

McCarl, B.A., "Climate Change and Environmental Modeling with Mathematical Programming h", Presented at University of Houston Department of Industrial Engineering October, 2015.

McCarl, B.A., "Climate Change and Extremes", Presented at the meeting Climate Extremes: A Forum on Adaptation and Building Resilience in Texas, Organized by The Hunt Institute for Engineering & Humanity at Southern Methodist University, September 17, 2015.

McCarl, B.A., "Climate Change and Sectoral trends in the Water Energy Food Nexus", Presented at Future Earth Water-Energy-Food Nexus Workshop Panel on Trends in the W-E-F issues Karlsruhe, Germany, Nov, 2015.

McCarl, B.A., "Climate Change and Southwest Agriculture Vulnerability and Adaptation", Presented at the USDA Southern Plains Climate Hub meeting on the USDA Climate Initiative Fort Worth, October, 2015.

McCarl, B.A., "Climate Change and the Water Energy Food Nexus: Some discussion points", Presented at TAMU/Future Earth Water-Energy-Food Nexus Workshop 1777 F Street, Washington, DC, June 1-3, 2015.

McCarl, B.A., "Climate Change, Choices, Agriculture and the Adaptation Imperative", Presented at CFARE Webinar at USDA, June 3, 2015.

McCarl, B.A., "Economics and the Water Energy Food Nexus: Some discussion points", Presented at TAMU/Future Earth Water-Energy-Food Nexus Workshop 1777 F Street, Washington, DC, June 1-3, 2015.

McCarl, B.A., "Energy, Economics, Climate Change and Soil Security", Presented at Global Soil Security Symposium, College Station, TX, May 19-21, 2015.

McCarl, B.A., "Linked Economic and Environmental Modeling of Water Energy in Support of Decision Making", Presented at the University of Maryland Earth System Science and Energy Research Center Meeting World Bank, October 27-28, 2015.

McCarl, B.A., "Part 2: Why it's a Problem: Agricultural Impacts", Presented at Agriculture in a Changing Climate: Challenges & Opportunities Feb 21, 2015, College station, 2015.

McCarl, B.A., "Texas in the Climate Change Squeeze: Impacts and What Do We Do?", Presented at Earth Day Texas, Dallas, Fair Park, April 25, 2015.

McCarl, B.A., "What is the decision making issue?", Presented at Climate Change Teaching Workshop on 2/13/2015, Rudder 301 Sponsored by Environmental Programs in the College of Geosciences, 2015.

McCarl, B.A., "What we know about public and private adaptation strategies", Presented at meeting Transitioning Cereal Systems to Adapt to Climate Change, Minneapolis, November, 2015.

Latta, G.S., **J.S. Baker**, R.H. Beach, B.A. McCarl, and S.K. Rose, "A multi-sector intertemporal optimization approach to assess the GHG implications of U.S. forest and agricultural biomass electricity expansio n", Presented at Workshop #7: A New Era of Modeling: Evaluating Uncertainties, New Markets, Land Use Competition and Climate Change Shepherdstown, WV, June 1-4, 2014.

McCarl, B.A., "Agriculture, Water Resources and Climate Change", Presented at Water resources under uncertainty and risk to climate change: tools for decision makers in the public and private sector, Santiago, Chile October, 2014.

McCarl, B.A., "Climate Change and Decision Making: An Economic and Agricultural Perspective gc", Presented at COALS Grand Challenges Mini-Symposia Session on The Energy Complex and its Interactions with Food, the Environment, and Society, May 13, 2014, AgriLife Center, College Station, 2014.

McCarl, B.A., "Climate Change and Decision Making: An Economic and Agricultural

Perspective hu", Presented at Habib University Conference on Climate Change Saturday, 25th of January, 2014 Pearl Continental Hotel, Karachi, Pakistan, 2014.

McCarl, B.A., "Climate Change and Irrigated Agriculture What Do we Know", Presented at Meeting on Sustainability of Engineered Rivers in Arid Lands, Austin, January, 2014.

McCarl, B.A., "Climate Change Economic Effects, Adaptation, Mitigation", Presented at Texas Center for Climate Studies Climate Change Workshop March 17 2014, 2014.

McCarl, B.A., "FASOM Modeling of LCA, Land Use Change and Livestock: Effects of 2nd generation biofuels", Presented at ExxonMobil's 2nd Generation Biofuels Workshop, Annandale, NJ, September 19, 2014.

McCarl, B.A., "Incentivizing Land Based GHG Offsets", Presented at Istanbul Carbon Summit: Carbon Management, Technologies & Trade" on April 3-5, 2014.

McCarl, B.A., R.D. Norton, and X.M. Wu, "Vulnerability to Climate Change in Latin America and Caribbean: A Systems Level Approach", Presented at Interamerican Development Bank, Washington D. C, January, 2014.

Mehta, V.M., N.J. Rosenberg, H. Wang, K. Mendoza, Z. Zhang, C.L. Knutson, N. Wall, T. Haig, B.A. McCarl, **M.A. Fernandez**, A.V. Mehta, S. Popuri, R. Srinivasan, D. Debjani, and P. Daggupati, "Predictability and Prediction of Decadal Climate and its Societal Impacts in the Missouri River Basin : A Regional Study Integrating Earth System, Hydrologic, Agricultural, Economic and Land Use Models", Presented at EaSM PIs' Meeting, Washington, DC, January, 2014.

Kung, C.C., B.A. McCarl, and C.C. **Chen**, "Environmental and Economic Effects from Pyrolysis-based Bioenergy: A Case Study with Land Emissions", Presented at Sustainable Asia Conference in Incheon, Korea June, 2013.

McCarl, B.A., "Climate Change and Decision Making: An Economic and Agricultural Perspective", Presented at University of Tennessee Baker Center Interdisciplinary Forum on Environmental Policy November, 2013.

McCarl, B.A., "Climate Change and Environmental Modeling with Mathematical Programming", Presented at Wisconsin Institute for Discovery Seminar Series on Doing Optimization at Wisconsin October, 2013.

McCarl, B.A., "Climate Change: Emerging Findings and Policy Directions", Presented at AAEA Organized Symposia on Economic Implications and Policy Responses to Climate Change, August, 2013.

McCarl, B.A., "US agriculture in the climate change squeeze: Issues with market trading of carbon", Presented at Australian Ag and Res Econ Society Pre-Conference Workshop on Agriculture: Source or Sink? Farm level implications of pricing carbon and policy responses to manage greenhouse gas emissions, February, Sydney, 2013.

McCarl, B.A., and J. **Chen**, "Climate change and conflict", Presented at the Conflict & Development Strategy Workshop in Washington, DC, April 23-25, 2013.

Aisabokhae, R.A., B.A. McCarl, and M. **Musumba**, "Climate change and adaptation effects on income distribution: Modeling and analysis in an Egyptian Case Study", Presented at Adaptation Futures 2012 conference, Tucson, AZ, May, 2012.

Attavanich, W., B.A. McCarl, Z. **Ahmedov**, S.W. Fuller, and D.V. Vedenov, "Climate Change and Infrastructure: Effects of Climate Change on U.S. Grain Transport ip", Presented at the USDOT meeting on Systemic Impacts of Climate on Transportation Workshop Arlington, VA on October 11-12, 2012.

McCarl, B.A., "Agriculture in the Climate Change Squeeze: Decision Making Context",

Presented at the joint TAMU/Brazil Water Seminar, September 18, 2012.

McCarl, B.A., "Agriculture in the Climate Change Squeeze: Decision Making Context gents", Presented at the TAMU GENTS Meeting September 20, 2012.

McCarl, B.A., "Challenge of Climate Change for Mexican Agriculture : A review and possible decisions", Presented at the Rabobank meeting, New York, November, 2012.

McCarl, B.A., "Climate Change and Water: Economic Research and Policy Efforts", Presented at the Meeting Climate Change Analysis from Science to Politics February 2012 San Jose, Costa Rica, 2012.

McCarl, B.A., "Economic Impacts on Agriculture", Presented at Texas Center For Climate Studies Meeting: Gulf of Mexico Regional Climate Modeling Workshop May 30-31, 2012.

McCarl, B.A., "Economics, Agriculture and Climate Change", Presented at the NSF Funded DISCCRS VII Symposium, Colorado Springs, October, 2012.

McCarl, B.A., "Livestock in the Climate Change Squeeze: Decision Making Context", Presented at the Animal Agriculture and Climate Change Southwest Region Advisory Meeting October 31, 2012.

McCarl, B.A., "Some Thoughts on Climate Change as an Agricultural Economic Issue - pr", Presented at the SAEA Lifetime Achievement Symposium February 2012, Burmingham, AL, 2012.

McCarl, B.A., "Uncertainty, Portfolios and GHG Trading", Presented at California Air Resources Board Meeting on uncertainty and discounting September 2012 via Internet, 2012.

McCarl, B.A., and A.D. **Hagerman**, "Economic and Environmental Considerations Regarding Carcass Disposal under a Wide Area Catastrophic FMD incident", Presented at Wide Area Recovery and Resiliency Program Agricultural Waste Disposal Workshop, Denver, CO, July 17, 2012, 2012.

McCarl, B.A., S. Ohrel, and R.H. Beach, "Evaluating Climate Change and Associated Policy Implications for Agriculture", Presented at ACES and Ecosystem Markets 2012, December 10-14, 2012 at the Marriott Harbor Beach in Ft. Lauderdale, FL, 2012.

McCarl, B.A., "Agricultural Challenges Involving Climate Change and Water: Insights from Economic Studies", Presented at The Role of Carbon Offsets in Climate Policy, Cornell University, May 13-15, 2011.

McCarl, B.A., "Bioenergy Supply Prospects Economic and Policy Explorations", Presented at Texas A&M Energy Engineering Institute Energy Forum 2011 Energy Security And Sustainability: Global Challenges, February, 2011.

McCarl, B.A., "Climate Change : A Multidimensional Challenge for Mexico", Presented at XIV Congreso Internacional en Ciencias Agrícolas Instituto de Ciencias Agrícoas, Universidad Autonoma de Baja California October, 2011 Mexicali, Mexico, 2011.

McCarl, B.A., "Climate Change and Egypt An Ongoing study on Agriculture", Presented at UNDP meeting, Cairo, July, 2011.

McCarl, B.A., "Climate Change and Water: A Challenge for the Americas", Presented at Conference 'Workshop on Water, Climate and Society in Mexico", Universidad de Guanajuato 11 May - 12 May 2011, Guanajuato, Mexico, 2011.

McCarl, B.A., "Economic Impact on Agriculture of 2011 Drought", Presented at Texas Water Symposium Drought: What, Where, Why and When…will it end? Junction, TX, Oct, 2011.

McCarl, B.A., "Energy and Bioenergy Futures Economic and Policy Explorations", Presented at Texas A&M Energy Club, Oct, 2011.

McCarl, B.A., "Impartición del curso Cambio climático: retos en los Agronegocios para México Climate Change : A Multidimensional Challenge for Mexico", Presented at Secretaría de Agricultura Seminar August 12, 2011 Mexico City, Mexico, 2011.

McCarl, B.A., "LCA, Renewable Fuels and modeling: Some thoughts related to FASOM", Presented at 2011 LCA Workshop held at Argonne National Laboratory on October 17-19, 2011, 2011.

McCarl, B.A., "LCA, Uncertainty and is it ahead of data", Presented at Sustainability of Biomass Production for Bioenergy, University of Illinois, October 25, 2011.

McCarl, B.A., "Mitigation of Greenhouse Gas Emissions by Agriculture and Forestry: Economic Explorations", Presented at the ASA, CSSA, and SSSA 2011 Annual Meeting, San Antonio, TX - Oct. 16-19, 2011, 2011.

McCarl, B.A., "What are Models Saying about the Supply of Bioenergy: Regionally and Temporally: Discussion", Presented at Forestry and Agriculture Greenhouse Gas Modeling Forum Workshop # 6: Forestry, Agriculture & Climate Change Modeling to Support Policy Analyses September 26-29, 2011, Shepherdstown, West Virginia, 2011.

McCarl, B.A., "Will the RFS have any effect: Some Greenhouse Gas and Economic Considerations", Invited paper presented at EBI Biofuels Law and Regulation Conference, April 22, 2011.

Attavanich, W., B.A. McCarl, and R. **Hughes**-Fraire, "Trade Liberalization, Climate Change Policies, and the Environment: The Growing Interaction and Impact: Discussion: os", Presented at Invited Paper session, AAEA Meeting, Denver, July, 2010.

Baker, J.S., B.A. McCarl, B.C. Murray, and R.B. Jackson, "Assessing Domestic Land Use Change under Simultaneous Bioenergy and Climate Mitigation Incentives", Presented at the World Congress on Resource Economics, Toronto, 2010.

Dellal, I., and B.A. McCarl, "The Economic Impact of Drought on Agriculture: The Case of Turkey", Presented at the Second International Conference on Drought Management Istanbul / Turkey 4-6 March, 2010.

Hagerman, A.D., and B.A. McCarl, "Show Me The Money: Implications from Economic-Epidemic Impact Analyses", Presented at 2010 FAZD Center Industry Summit College Station, TX, April 13, 2010.

McCarl, B.A., "Agriculture, Climate Change and Adaptation", Presented at Climate Change Vulnerabilities and Opportunities: Michigan and Beyond Michigan State University, East Lansing, April, 2010.

McCarl, B.A., "Agriculture, Climate Change and Public Policies", Presented at Sector agroalimentario y pesquero: nuevas perspectivas, nuevas oportunidades Mexico City, April, 2010.

McCarl, B.A., "Agriculture, Climate Change, Environment and Nitrogen", Presented at Second Annual Environmental Change Institute Summit University of Illinois, November, 2010.

McCarl, B.A., "Biomass Carbon Issues", Presented at The Rural Alliance for Renewable Energy (RARE) Meeting: Biomass in Texas: Can Waste from our Forests & Fields Illuminate our Future? August, 2010.

McCarl, B.A., "Climate Change and Agriculture: Adaptation and Mitigation Policy", Presented at Climate Change and Agriculture: Impacts, Adaptation, and Mitigation

Organized Symposia, AAEA Meetings, Denver July, 2010.
McCarl, B.A., "Climate Change: Decision Making Issues", Presented at the TAMU Friends of India Network India Day Panel on Climate Change and India September, 2010.
McCarl, B.A., "Economics and Bioenergy Needs and RFS Analysis", Presented at ARISE Proposal Review Meeting February, 2010.
McCarl, B.A., "Energy and Climate Change: Huge Issues in your Future", Presented at the Congreso Ingeniería C11: Evolution Starts Now! Tecnologico de Monterrey Campus Central de Veracruz, April 2010, Vera Cruz Mexico, 2010.
McCarl, B.A., "Energy and Climate Change: Huge Issues in your Future - campus", Presented at the TAMU LEBA- Latin Economic & Business Association Meeting September, 2010.
McCarl, B.A., "FASOMGHG / ASM", Presented at Agricultural Model Intercomparison and Improvement Project (AgMIP) Workshop, Long Beach, CA, October, 2010.
McCarl, B.A., "FASOMGHG and the Analysis of Economic Impacts of Biofuels Production", Presented to NAS Committee on the Economic and Environmental Impacts of Increasing Biofuels Production Washington, D.C. January 15, 2010.
McCarl, B.A., "FASOMGHG: Biofuel, Land Use and GHG Modeling", Presented at workshop on Land Use and Economic Models of Biofuels Energy Biosciences Institute University of Illinois, Urbana-Champaign, September, 2010.
McCarl, B.A., "Food and Agriculture: Issues and Research Needs", Presented at Panel on Research Priorities of the Food, Agriculture, Natural Resources, and Environment of 2050 February, TAMU visit of SLoan Foundation, 2010.
McCarl, B.A., "Modeling of Responses to Climate Change: Approaches and Challenges", presented at Congress of of Engineering "CXI: Evolution Starts Now!!!", Vera Cruz, April, 2010.
McCarl, B.A., "Morphing Research into Policy Advice", Presented at Agricultural and Applied Economics Research: What Makes It Relevant for Policy Advice? Organized Symposia, AAEA Meeting, Denver, July, 2010.
McCarl, B.A., "Potential Impact of Climate Change Policies on Land Use and Food Production", Presented at Alternative Policies on Climate Change and Their Implications on U.S. Agricultural Economy Fargo, North Dakota, May 24, 2010.
McCarl, B.A., "What Does the Future Hold For Energy: Speculations", Presented at Energy Engineering Institute scenario planning meeting College Station, May, 2010.
McCarl, B.A., A.D. Hagerman, and R. Hughes-Fraire, "Investment Strategies for Addressing Zoonoses - ip", Presented at Farm Foundation Meeting Zoonoses: Understanding the Animal Agriculture and Human Health Connection, September, 2010.
Rose, S.K., and B.A. McCarl, "U.S. and Regional Agriculture and Forestry Biomass Supply for Electric Generation and GHG Implications", Presented at USDA Bioelectricity Workshop, Washington D. C, November 15, 2010.
Baker, J.S., B.A. McCarl, and B.C. Murray, "Impacts of Cap-and-Trade on Agriculture", Texas Ag Forum Presentation, Austin, June 22, 2009.
Hagerman, A.D., B.A. McCarl, T.E. Carpenter, L. Highfield, and M.A. Ward, "Accounting for risk in economic examination of foot-and-mouth disease mitigation strategies", Presented at DHS Meeting in New Mexico, 2009.
McCarl, B.A., "Agriculture, forestry climate change and offsets", Testimony for the House Subcommittee on Conservation, Credit, Energy and Research December 3, 2009.

McCarl, B.A., "Alternative Policy Approaches to Greenhouse Gas Control", Invited paper presented at Texas Ag Forum, Austin, June 22, 2009.
McCarl, B.A., "BioEnergy and Leakage", Presented at Low Carbon Fuel Standard Summit - 2009, The International Council on Clean Transportation, Washington, Sept 30, 2009.
McCarl, B.A., "Biofuels and Land use change", Presented at Low Carbon Fuel Standard Summit -2009, The International Council on Clean Transportation, Washington, Sept 30, 2009.
McCarl, B.A., "Carbon Cap and Trade What will it do to Ag and forest", Presented at Research Perspectives on Carbon and Climate Change Issues Farm Foundation Forum, Washington, D.C. November 10, 2009.
McCarl, B.A., "Carbon Markets", Presented at NRCS Markets Webinar Organized by CFARE, February, 2009.
McCarl, B.A., "Climate Change and Energy Policy Landscape: Looking Ahead: Some Discussion Points", Presented at the 5th Forestry and Agriculture GHG Modeling Forum, Shepardstown, WV, April, 2009.
McCarl, B.A., "Climate Change and Policy in Texas: One of The Most Vulnerable States?", Presnted at Planet UNT Earth Day Summit Climate Change, Energy Development, and Resource Sustainability, April 22, 2009.
McCarl, B.A., "Climate Change Impacts of Agriculture in Texas", Presented at Global Climate Change: In Search of the Science, University of St. Thomas April 22, 2009.
McCarl, B.A., "Climate change/GHGs impacts legislation and other effects on the ag/biotech/food industry", Invited paper presented at UIC Spring Meeting, Austin, April 29, 2009.
McCarl, B.A., "Domestic effect of more Biofuels: Land use change, LCA, and Leakage", Presented at National Corn Growers Meeting on Land Use and Carbon Impacts of Corn-Based Ethanol, St. Louis, August 25- 26, 2009.
McCarl, B.A., "Economic investigations on Water Impacts of Transportation Biofuels", Presented at U.S. Government Accountability Office and Texas AgriLife Research Discussion on Water Impacts from Transportation Biofuels, College Station, May 6, 2009.
McCarl, B.A., "FASOMGHG Basics and Programming Structure", Presented at USDA meeting on FASOM and Waxman Markey, Washington, July, 20-21, 2009.
McCarl, B.A., "GHG Mitigation Potential in Forestry and Agriculture", presented at National Academy of Science America's Climate Choilce, Limiting Panel, Golden, CO May 27, 2009.
McCarl, B.A., "International Conflict and Cooperation Related Economic issues regarding Biofuels, and Climate Change", Presented at meeting sponsored by Program on International Conflict and Cooperation, TAMU Political Science Department, College Station, May 7, 2009.
McCarl, B.A., "Long term Modeling of Land Use, Climate Change and GHG Policy", Presented at the Long Term Agricultural Modelling Work Shop, November 9-10, 2009 Economic Research Service, 2009.
McCarl, B.A., "Modeling Competition for Land: Some Discussion Points", Presented at the 5th Forestry and Agriculture GHG Modeling Forum, Shepardstown, April, 2009.
McCarl, B.A., "OR Modeling for Climate Change Analysis: Agricultural Related Energy, Climate Change and Farm Policy", Presented at the 16th Annual Industrial Congress,

Technologico de Monterrey (ITESM), Monterrey, Mexico, October, 2009.

McCarl, B.A., "Permanence Discounting for Land-Based Carbon Sequestration ip", Presented at EPRI Greenhouse Gas Emissions Offset Policy Dialogue Workshop #4 Washington, February, 2009.

McCarl, B.A., "PHEVS, Electricity, Renewables and Greenhouse Gases: Economics and the Environment", Presented at PHEV Meeting Austin July 21, 2009.

McCarl, B.A., "Prospects for Food & Water Availability and Quality A view based on Climate Change", Presented at a meeting on Megaregions plus MetroProsperity: Sustainable Economics for the Texas Triangle During panel on Food & water: Are we secure?, Houston, September 24, 2009.

McCarl, B.A., "The Climate Change Squeeze: Research Challenges", Presented at TAMU Student Research Week, March, 2009.

McCarl, B.A., "What might be done to FASOM", Presented at USDA meeting on FASOM and Waxman Markey, Washington, July, 20-21, 2009.

McCarl, B.A., A.D. **Hagerman**, and R. **Hughes**-Friare, "RVF Vulnerability and Strategy evaluation", Presented at RVF Expert Consultation, Washington, D. C, Dec 16, 2009.

McCarl, B.A., A.D. **Hagerman**, H-I. **Lin**, J.C. **Looney**, D.A. Bessler, W. **Huang**, Q. **Gao**, Y.H. Jin, B. Norby, L. Highfield, M.A. Ward, and R. **Hu**, "Industry Applications of Modeling Catastrophic Disease Effects in Confined Livestock Operations: Scenarios Modeled Under the Texas High Plains FMD Simulations", Presented at 2009 Department of Homeland Security University Summit, Washington, D.C., March 19, 2009.

McCarl, B.A., A.D. **Hagerman**, H-I. **Lin**, J.C. **Looney**, M.A. Ward, and L. Highfield, "Reducing vulnerability to animal disease: strategies, economic consequences and resilience", Presented at 2009 Department of Homeland Security University Summit Washington, D.C. March 17, 2009.

McCarl, B.A., and R. **Hughes**-Friare, "RVF Appraising Human Vulnerability", Presented at RVF Expert Consultation, Washington, D. C, Dec 16, 2009.

McCarl, B.A., and R. Srinivasan, "Linking Biophysical with Economic Models for Impact Assessments", Invited Paper at World Bank Water Week Session 26, Modeling Tools for Agricultural Water Management, Washington, Feb 18, 2009.

Mu, J.H., D.A. Bessler, and B.A. McCarl, "Avian Influenza Information: Economic Effects on U.S. Meat Markets", Presented at FAZD Annual Meeting, College Station, June, 2009.

Rose, S.K., B.A. McCarl, B.C. Murray, and F. de la Chesnaye, "Potential for Agricultural and Forest GHG Mitigation in the U. S", EPRI Greenhouse Gas Emissions Offset Policy Dialogue, Workshop 4 February 19, 2009.

Yu, T-H.E., M-K. **Kim**, and B.A. McCarl, "Trade Liberalization, Climate Change Policies, and the Environment: The Growing Interaction and Impact", An Invited Paper Session at the 2010 AAEA Meetings Denver, CO, July 25 - 27 (accepted), 2009.

Carpenter, T.E., and B.A. McCarl, "Integrating Epidemic and Economic Models", Presented at FAZD Annual Meeting, February 2008, College Station, 2008.

Kim, M-K., and B.A. McCarl, "Carbon Sequestration and Its Trading in U. S", Presented at International Symposium on Climate Change, Seoul Korea, September 9, 2008.

McCarl, B.A., "Adaptation to Climate Change: Issues and Modeling", Presented at Methodology Pre-Workshop for Vulnerability to CC BMZ Project IFPRI, Washington

DC, March 19, 2008.
McCarl, B.A., "Agriculture, Climate Change Mitigation and Biofuels: Economic Explorations", Invited Keynote Presented at Belly Klepper Lecture During Annual Joint Meeting of Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, and the Gulf Coast Association of Geological Societies, October, Houston, TX, 2008.
McCarl, B.A., "Bioenergy in a Greenhouse Gas Mitigating World", Presented at AAEA Meeting on Environmental Choices: Outlook and Investigation on Climate Change as it Relates to Agriculture and Natural Resources Washington DC, ERS, April 1, 2008.
McCarl, B.A., "BioEnergy Lifecycle Carbon Footprint, and Leakage", Presented at Farm Foundation meeting on Lifecycle Carbon Footprint of Biofuels, National Press Club, Washington, DC April 8, 2008.
McCarl, B.A., "BioEnergy Sorghum, Lifecycle Carbon Footprint, Market Impacts and Leakage", Presented at International Workshop/Conference On Sorghum For Biofuels, Houston, TX August 19, 2008.
McCarl, B.A., "Bioenergy: A View of the Economic Future", Presented at The Academy of Medicine, Engineering, and Science of Texas and TAMU conference on The Business of Fueling the Future - Earth, Wind, and Sun, March, 2008.
McCarl, B.A., "Bioenergy: How strong will the future market be?", Presented at TAMU Sigma Xi Meeting, Biofuels: Do they have a future? March, 2008.
McCarl, B.A., "Biofuels and Greenhouse Gasses: Economics of Offsets and Leakage", Presentation at University of Illinois, May, 2008.
McCarl, B.A., "Biofuels in a GHG Mitigating World: LCA, Leakage and Indirect Land Use", Presented at 3rd Annual Midwest Ag Energy Network Summit: Policies to Prosper in the New Carbon Economy, Crowne Plaza, Chicago O'Hare, Dec 15, 2008.
McCarl, B.A., "Biofuels, Climate Change and Agricultural Research: Opportunities and Challenges", Paper given at the NC-1034 symposium on "Energy and Agriculture: Emerging Policy and R&D Issues", Washington, DC, March 7-8, 2008.
McCarl, B.A., "Biofuels: A View of the Economic Future", Presented at the meeting The business of fueling the future, College Station, TX, March, 2008.
McCarl, B.A., "Bryan and Texas in the Climate Change Squeeze: Highly Vulnerable Places?", Presented to City of Bryan Green Team, Bryan, September, 2008.
McCarl, B.A., "Climate Change and Social Justice", Presented at Does Agriculture equal a War on Nature? Association for Social Entrepreneurship Teachin, Texas A&M Campus, Koldus Bulding, February, 2008.
McCarl, B.A., "Climate Change and Texas Water: An Economic Investigation", Presented at the meeting Climate Change Impacts on Texas Water, Texas State Capitol Extension, Austin, Texas, April 28-30, 2008.
McCarl, B.A., "Climate Change and Water: Physical and Economic Sensitivity", Presented as Plenary Keynote at the 2008 UCOWR/NIWR Conference, Durham, North Carolina, July 23, 2008.
McCarl, B.A., "Climate Change, Edwards Aquifer Water, Agriculture and the Environment: An Economic Investigation", Presented at Meeting of Edwards Aquifer Recovery Implementation Program, August 14, 2008, Seguin, 2008.
McCarl, B.A., "Climate Change, Texas Water, Agriculture and the Environment: An Economic Investigation", Presented at Far West Texas Climate Change Conference El

Paso, June 17, 2008.

McCarl, B.A., "Efforts on Foreign Animal and Zoonotic Disease Consequemce Modeling: Economic efforts at the FAZD Center", Presented at the U.S. Department of Homeland Security Agriculture, Food, and Microbial Risk Consequence Modeling Workshop, Lansdowne, VA September, 2008.

McCarl, B.A., "Global Climate Change Impacts on Water and the Economy: Implications for Research", Invited Paper Presented at 2008 International SWAT Conference, October 15-19, 2008, Beijing, China, 2008.

McCarl, B.A., "Lifecycle Carbon Footprint, Bioenergy and Leakage", Presented at Farm Foundation and USDA meeting on The Lifecycle Carbon Footprint of Biofuels Miami, Fl, January 29, 2008.

McCarl, B.A., "Lifecycle Footprint, Bioenergy and Leakage: Some Considerations", Invited paper Presented at 29th Annual Agricultural Law Symposium, Minneapolis, MN, October, 2008.

McCarl, B.A., "Linking Economic and Biophysical Models for Climate Change and Biofuel Analysis", Invited Paper at Meeting Biophysical and Economic Models of Biofuel Production and Environmental Impacts, Chicago, Nov. 13-15, 2008.

McCarl, B.A., "OR Modeling for Government Policy Analysis: Agricultural related energy, climate change and farm policy", INFORMS Conference Applying Science to the Art of Business April 13-15, 2008 Baltimore Marriott Waterfront Baltimore, Maryland, 2008.

McCarl, B.A., "Pyrolysis, Biochar, and Crop Residues: Is this an Economic Proposition?", Invited Paper Presented at Annual Joint Meeting of Geological Society of America (GSA), Soil Science Society of America (SSSA), American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and the Gulf Coast Association of Geological Societies, Houston, October, 2008.

McCarl, B.A., "Texas in the Climate Change Squeeze: A Highly Vulnerable State", Presented at MSC SCONA Conference, Texas A&M University, College Station, February, 2008.

McCarl, B.A., "Texas in the Climate Change Squeeze: One of The Most Vulnerable States?", National Association of Retired Federal Employees Meeting, College Station, April 2008, 2008.

McCarl, B.A., "The Globe the Climate Change Squeeze: Are we Vulnerable?", Jordan Institute Lecture, Texas A&M University, College Station, March, 2008.

McCarl, B.A., "US Bioenergy: Potential, Policy and Economic/Climate Change Concerns", Invited paper presented at Transatlantic Climate and Energy Cooperation: The Way Forward A German-U.S. Dialogue, Washington, DC, November 17, 2008.

McCarl, B.A., "Will Bioenergy be Profitable: Markets, Lifecycle Carbon Footprint, Commodity Prices and Leakage", Invited paper presented at GROW III - Oklahoma Conference on Biofuels, Oklahoma City, OK November 12, 2008.

McCarl, B.A., and A.D. **Hagerman**, "Effects of Biosecurity Risk and Food Scare Events on Food Prices and Demand: Discussion pr", Presented at AAEA Meetings, Orlando, July, 2008.

McCarl, B.A., and B.L. Sohngen, "Climate Change Squeeze: Impacts, Adaptation, and Mitigation in Agriculture and Forestry", Presented at National Coalition for Food and Agriculture Research, 2008 Hill Seminar Series Washington DC, March 31, 2008.

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McCarl, B.A., C. Peacocke, R. Chrisman, C.C. **Kung**, and R.D. Sands, "Economics of Biochar Production, Utilisation and GHG Offsets pr", Presented at International Biochar Initiative Conference, Newcastle upon Tyne, UK September 9, 2008.

McCarl, B.A., X. **Villavicencio**, and X.M. Wu, "Climate Change, Variability and Future Risk Management", Presented at AAEA Annual Meeting, Orlando, FL, July, 2008, 2008.

Elbakidze, L., and B.A. McCarl, "Mitigation of Infectious Animal Disease Outbreaks: Economic Issues and Modeling", Presented at meeting of NC-1016 Regional Research committee and AAEA FAMPS entitled Bio-terrorism and Natural Disasters: Market and Policy Responses, March 22-23, Washington D. C, 2007.

Hartley, D.M., T.L. Nipp, B.A. McCarl, and others, "NCFAZDD Rift Valley Fever Modeling", Presentation to DHS, 2007.

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McCarl, B.A., "Biofuels from Agriculture: Dreams, Economics and Climate Policy Influences", Presented at National Renewable Energy Laboratory, Golden CO, Aug, 2007, 2007.

McCarl, B.A., "Biofuels in the Greenhouse Sequestration, Offsets, Emission Reduction and Economics", Presented at Fueling Change with Renewable Energy, April, 2007 at the University of Illinois at Urbana-Champaign, 2007.

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McCarl, B.A., "Biofuels raised in the Greenhouse An Economic Perspective Part 2 Electricity", Presented at 2007 George Bush China-US relations Conference on Development, Energy, and Security, Washington DC, October 22-25, 2007.

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Economics Association Portland, OR, July, 2007.

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McCarl, B.A., "Data needs of a Climate Change, Animal Disease and Environmental Modeler", Presented at USDA, ERS Meeting on Data Needs for Agri-Environmental Policy Modeling and Analysis Washington D.C., October 15, 2007.

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McCarl, B.A., "How Feasible Are Dreams of Biofuels? An economic view and analysis", Presented at Norwegian Agricultural Economics Research Institute, October, 2007.

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McCarl, B.A., "Markets, Taxes, Biofuels and Agriculture all living in the Greenhouse: An Economic Perspective", Presented at the American Farm Bureau Energy & Carbon Conference Omaha, Nebraska, October, 2007.

McCarl, B.A., "Presentation on Adaptation Costs in Agriculture, Fisheries and Forestry", Presented at UNFCCC Workshop On Finance and Investment Flows to Address Climate Change: The Way Forward, Bonn Germany, Oct 31, 2007.

McCarl, B.A., "Texas in the Climate Change and Energy Squeeze", Presented at the Annual Meeting of the Texas Economic Development Council, Amarillo, July 12, 2007, 2007.

McCarl, B.A., "Texas in the Climate Change Squeeze: The Most Vulnerable State?", 2007 Sigma Xi Distinguished Scientist Lecture, Texas A&M University, College Station, November, 2007.

McCarl, B.A., "Texas in the Climate Change Squeeze: The Most Vulnerable State? Plus A few thoughts on A Satisfying Career", Presented to Alpha Gamma Rho fraternity, Nov 14, 2007 Texas A&M University, College Station, 2007.

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McCarl, B.A., "What are the environmental implications of increased biofuel use in the US, and how can we model them", Part of a Panel Presented at Forestry and Agriculture Greenhouse Gas Modeling Forum # 4: Modeling Ag-Forest Offsets and Biofuels in US and Canadian Regional and National Mitigation, Shepherdstown, West Virginia, NCTC, March 6-8, 2007.

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Elbakidze, L., and B.A. McCarl, "Bio-Security and the US Livestock Sector: Trading off

Prevention and Response", Invited paper Meetings of Southern Agricultural Economics Association, Orlando, 2006.

Elbakidze, L., B.A. McCarl, M.A. Ward, and J.B. Carey, "Modeling and Economic Evaluation of Effectiveness of Avian Influenza Mitigation Options", ERS, USDA, Washington, D.C. October, presented at Program of Research on the Economics of Invasive Species Management, 2006.

Gan, J., B.A. McCarl, and J.W. Mjelde, "Effects of Climate Change, Forest Certification, Biotechnology, and Industrial Concentration on the US Forest Products Industry and Trade: Presentation", Presented at Agricultural Markets and Trade Project Directors Meeting Washington, DC, June 15, 2006.

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McCarl, B.A., "Economic Explorations of Biofuel Possibilities and Greenhouse Gas Emission Mitigation Role emf", Presented at EMF Land use meeting February 2, 2006, Washington D. C, 2006.

McCarl, B.A., "FASOM-GHG2, Stabilization Scenarios and other items", Presented at Land Modeling Subgroup Session EMF-22 meetings Tokyo, Japan, December, 2006.

McCarl, B.A., "Potential Impacts of Global Warming on Texas Agriculture Water Related Issues", Presented at Environmental Defense Conference Global Warming and Texas Water Austin, TX Friday, May 12th, 2006.

McCarl, B.A., Y.H. Jin, Q. **Gao**, R. Srinivasan, and J.H. Jacobs, "Economic and Environmental Considerations in Carcass Disposal", Presented at FAZD Conference Emergency Management of Mass Animal Mortality Austin TX, Nov 13-14, 2006.

McCarl, B.A., "Agricultural and Social Issues: Work by TAMU Agricultural and Resource Economists that might play a role in proposal", Presented at Meeting on Texas Hydrologic Observatory for the Guadalupe, San Antonio River Basins January 25, 2005 at the Texas Water Resources Institute, 2005.

McCarl, B.A., "Economic Analysis of Events and Response", Moderator of Session at First Annual IFT Food Protection and Defense Research Conference, Atlanta, November, 2005.

McCarl, B.A., "Economics Efforts Under FAZDD Informatics, Modeling, and Analysis (IMA)", Presented at Joint Meeting of USDA, FAZD and Lawrence Livermore on Animal Disease Modeling, Fort Collins Colorado, April, 2005.

McCarl, B.A., "Market Trading and GHGs Why trade? Where does it happen? Why an Agriculturalist?", Presented at Symposium on Improved Profits Through Best Managed Practice, Tuesday, November 1, 2005 Holiday Inn Emerald Beach, Corpus Christi,

Texas, 2005.

Wiborg, T., B.A. McCarl, S. Rasmussen, and U.A. **Schneider**, "Aggregation and Calibration of Agricultural Sector Models Through Crop Mix Restrictions and Marginal Profit Adjustments", Presented at the PMP, Extensions and Alternative Methods, Organised Session of the XIth EAAE European Association of Agricultural Economists Congress, The Future of Rural Europe in the Global Agri-Food System, Copenhagen, Denmark, August 23-27, 2005.

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McCarl, B.A., "Agricultural and Carbon Sequestration FASOM and IAM Models," Presented at EPA GTAP meeting on Land Use and Integrated Assessment Workshop, Washington DC, May 24-26, 2004.

McCarl, B.A., "Agriculture, Climate Change and Climate Change Mitigation," Presented at Texas Recycling and Sustainability Summit San Antonio, September 29, 2004.

McCarl, B.A., "Climate change Mitigation as a stimulus for biofuel adoption: An economic evaluation," Presented at NSF MUSES sponsored Workshop on the Economic and Environmental Impacts of Bio-Based Production, University of Illinois at Chicago June 8-9, 2004.

McCarl, B.A., "Comments on Activity Report on Sustaining Agriculture and Combating Land Degradation," Presented at US Interagency workgroup sponsored Workshop on the Interagency Global Earth Observing System, Reston, VA, May, 2004.

McCarl, B.A., "Discounts, Fungibility and Agricultural GHG Offset projects," Presented at Agricultural Modeling Forum Meeting, Shepardstown, WV, October, 2004.

McCarl, B.A., "Economics and Agri-Food System Terrorism," Presentation for CFARE to Homeland Security and Government Affairs committees, 2004.

McCarl, B.A., "Insights from Agricultural GHG Offset studies," Presented at EPRI Workshop on Terrestrial Carbon Sequestration, Alexandria VA, October 19-21, 2004.

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McCarl, B.A., "Economic Analysis of Pests as influenced by Climate Change Implications for US Agriculture," Presented at the National IPM Symposium Indianapolis, IN, April, 2003.

McCarl, B.A., "GAMS as a Tool for Applied Analysis: Significance, and the Future," Presented at the Celebration of Alex Meeraus' 60th Birthday, Washington, September, 2003.

McCarl, B.A., "On-Farm Carbon Sequestration? Can a farmer make some money at it?" Presented at Purdue Top Farmer Workshop, West Lafayette, IN, July, 2003.

McCarl, B.A., "Panel member on discussion on Acceptable Error," Panel presented at the CASMGS sponsored Carbon Measurement and Monitoring Forum, Manhattan, KS October 15-17, 2003.

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McCarl, B.A., "Including Potential Greenhouse Gas Emission Mitigation from Forests and Agriculture In Integrated Assessment," Presented at EMF-21 Meeting Washington, DC December, 2002.

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McCarl, B.A., "Economic Land Use Modeling to Appraise Potential Greenhouse Gas Emission Mitigation from Forests and Agriculture," Presented at 9th Japan US Workshop on Global Change Carbon Cycle Management in Terrestrial Ecosystems, Oct 9-11, 2001.

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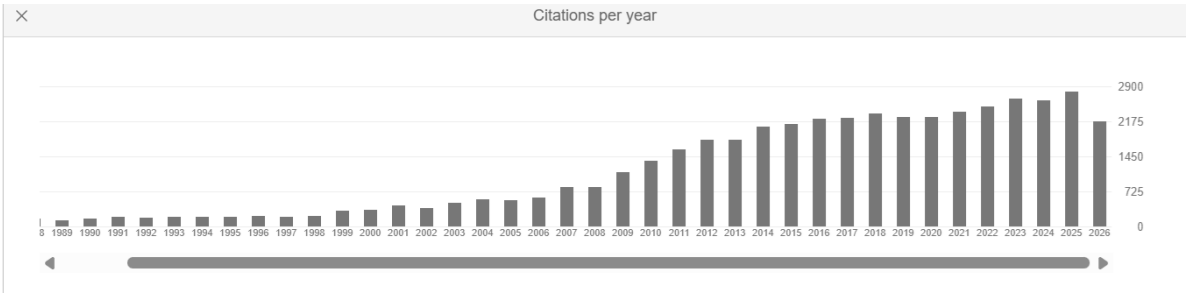
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The value of improved ENSO prediction to US agriculture	Climatic Change	1998	247
Sequestering carbon on agricultural land: social cost and impacts on timber markets	Contemporary Economic Policy	1993	234
An investigation of the relationship between pesticide usage and climate change	Climatic Change	2001	231
McCarl GAMS User Guide	Book	Vario	222

		us	
Agricultural mitigation of greenhouse gases: science and policy options	Proceedings	2001	221
Assessing effects of mitigation strategies for global climate change with an intertemporal model of the US forest and agriculture sectors	Environmental and Resource Economics	1997	219
Epidemic and economic impacts of delayed detection of foot-and-mouth disease: a case study of a simulated outbreak in California	Journal of Veterinary Diagnostic Investigation	2011	222
Climate change and North American rangelands: Assessment of mitigation and adaptation strategies	Rangeland Ecology & Management	2013	221
Implications of global climate change for western agriculture	Western Journal of Agricultural Economics	1988	208
Risk modeling using direct solution of nonlinear approximations of the utility function	American Journal of Agricultural Economics	1985	197
Agricultural sector analysis on greenhouse gas mitigation in US agriculture and forestry	Agricultural Systems	2007	197
High biomass yield energy sorghum: developing a genetic model for C4 grass bioenergy crops	Biofuels, Bioproducts and Biorefinin	2012	202
The choice of crop rotation: A modeling approach and case study	American Journal of Agricultural Economics	1986	184
Climate-change adaptation on rangelands: linking regional exposure with diverse adaptive capacity	Frontiers in Ecology and the Environment	2015	188
Soil carbon: policy and economics	Climatic Change	2001	173
The economic consequences of ENSO events for agriculture	Climate Research	1999	169
The benefits to Mexican agriculture of an El Niño-southern oscillation (ENSO) early warning system	Agricultural and Forest Meteorology	2003	174
Assessing Socioeconomic Impacts of Climate Change on US Forests, Wood-Product Markets, and Forest Recreation: The effects of climate change on forests will trigger market	Bioscience	2001	167
Sectoral implications of farm program modifications	American Journal of Agricultural Economics	1992	163
From beef cattle to sheep under global warming? An analysis of adaptation by livestock species choice in South America	Ecological Economics	2010	172
Sustainable environmental remediation via biomimetic multifunctional lignocellulosic nano-framework	Nature communications	2022	170
The economic consequences of ENSO events for agriculture	Climate research	1999	169
Assessing Socioeconomic Impacts of Climate Change on US Forests, Wood-Product Markets, and Forest Recreation: The effects of climate change on forests will trigger market	Bioscience	2001	167

A reassessment of the economic effects of ozone on US agriculture	JAPCA	1989	165
Costs of Water Treatment	Water Res Research	1998	165
Sectoral Implications of Farm Program Modifications	AJAE	1992	163
Evaluating the economic damage of climate change on global coral reefs	Ckimatic Change	2015	160

Professional Society Membership and Duties

American Agricultural Economics Association

Duties: Book Reviewer, Member of Research Discovery Committee 1980-82,Invited Paper Section Organizer Summer 1983 - Session on Problems with the Forest Industry Member of Selected Paper Evaluation Committee 1986, Publications committee, 2004-2006, Member AAEA Board of Directors (Choices representative), Invited speaker, Symposia Organizer, Choices Editor, AJAE Associate Editor, Reviewer, Choices guest editor, Gardner Policy award committee, Chair 2012, Research Discovery Committee, Enduring Quality Committee, Fellows committee, 2018-2022

American Geophysical Union

Duties: Member Economic Policy Committee, Associate Editor, Reviewer.

Western Agricultural Economics Association

Duties: Chairman of Committee on Alternative Publication Possibilities 1987-88, Reviewer, Invited speaker

Southern Agricultural Economics Association

Duties: Invited paper session Organizer, Invited Speaker, Reviewer

Member of following groups

Regional Research Project on Risk S-180, 1983-1988, S-232, 1988-1993
Overall Project Chair 1988/1989, Chair Methodology Subcommittee 1985-1988 Chair Policy Subgroup 1988-91
Regional Research Project on Research Evaluation
Non CO2 Network
UN Intergovernmental Panel on Climate Change Working Group III
UN Intergovernmental Panel on Climate Change Working Group II
Energy Modeling Forum study
UN Framework Convention on Climate Change group on adaptation
US National Climate Change Assessment for Agriculture
CASMGS, the Consortium for Agricultural Soil Mitigation of Greenhouse Gasses,
CSiTE The DOE consortium for research on Enhancing Carbon Sequestration in Terrestrial Ecosystems
National Academy Panel on America's Climate Future'
National Academy Panel on revieing a Net zero report from farm groups
Reviewer of National Academy report on Liquid fuels from coal and biomass
Member, USDA/DOE Biomass Technical Advisory Committee

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Journal Referee

AEPP
Agribusiness
Agricultural Economics
Agricultural Finance Review
American J. of Agricultural Economics
Australian J. of Agricultural Economics
Biomass and Bioenergy
Canadian Journal of Agricultural Economics
Canadian J. Fisheries and Aquatic Sciences
Choices
Climate
Climate Change Economics
Climate Policy
Climate Research
Climatic Change
Contemporary Economic Policy
Ecological Economics
Economics E-Journal
Energies
Energy
Energy Economics
Environment and Development Economics
Emerging Markets Finance and Trade
Environmental and Resource Economics
Environmental Science and Technology
Energy Economics
Energy Journal
European Rev. of Ag. and Res. Economics
Global Environmental Change
Forest Policy and Economics
Forest Science
J. of Ag. Science & Technology
Journal of Agricultural and Applied Econ.
J. of Agricultural and Resource Economics
J. American Water Resources Association
Journal of Arid Lands
Journal of Economics and Business
J. of Env. Economics and Management
Journal of Environmental Management
J of Environmental Science and Technology
Journal of Forestry
Journal of Production Agriculture
Journal of Soil Conservation Society
J. of Water Resources Planning and Mgt
Land Economics
Land Use Policy
Management Science
Mathematical Programming
Mitig. & Adapt. Strat. for Global Change
MS Focus
Nature
Nature Climate Change
Nature Sustainability
Natural Resource Management
Operations Research
Philosophical Transactions B, Royal Society
Resource and Energy Economics
Review of Agricultural Economics
Rev of Agric and Resource Economics
Review of Ecological Economics
Rev of Marketing and Ag Economics
Science
Sustainability
Water Resources Research
Water Resources Bulletin

Miscellaneous

1) Former Western representative to Cooperative State Research Information System technical advisory committee appointed by Western Experiment Station Directors.
2) Proposal reviewer for National Science Foundation in US/USSR, US/Israel Bard and climate change programs.
3) Member of US/USSR Scientific Exchange on computers and agricultural management.
4) Member of US Global Climate Research Program, National Assessment teams for forestry and agriculture
5) Member of NOAA team on economics of ocean observing system.
6) Lead author Intergovernmental panel on Climate Change, Agricultural Mitigation, Working Group III
7) Lead author Intergovernmental panel on Climate Change, Economics of Adaptation, Working Group II
8) Member NAS America's Climate Choices, Limiting Panel
9) Review editor Intergovernmental panel on Climate Change, Special report on land, Working Group III

Extension Activities and Duties

Have never had a formal extension appointment, but have participated in a number of activities:

1) Developer of computer model on which the Purdue Top Farmer Crops workshop is based. This involved participation in virtually all workshops from 1974-1979, principally as a trouble shooter, consultant on model use, and sometime teaching assistant.

2) Developer or overseer of several other extension models. These models were developed both for mainframe and the Purdue FACTS microcomputers.

3) Developer of computer model on which the International Harvester ProAg System was based. Worked with extension agents and IH employees in development and use of model. Have developed a research/extension follow up (REPFARM) currently being adapted for use within research appraisal, extension, and machinery selection contexts.

4) In Oregon, did a radio show and newspaper articles on water, and timber import/exchange rate issues, appeared at Agricultural Conference Days, and held discussions with water, energy, environmental and grazing fee policy makers.

5) In Texas, worked on rangeland water harvesting and met with state officials. Also have given talks on global climate change, Edwards aquifer Management, carbon sequestration and biofuels

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Administrative Experience

Administrator of Texas A&M Agricultural Economics computer services group, supervising five professionals 1986-88.
Have supervised many students (as many as 13 of my own plus 20 committee memberships at one time), several research associates and programmers.
Chair of various standing and adhoc committees.
Associate Head and Leader of Research, Department of Agricultural Economics, Texas A&M University January-September 1990 (During Sabbatical of John Nichols)
Member of Committee to Revitalize Texas A&M Institute for Renewable Natural Resources.
Member of Steering Committee for Texas A&M College of Agricultural and Life Sciences Strategic Planning.,1990
Chair of Quantitative Workgroup for Texas A&M Department of Agricultural Economics, 1985-86, 1989-93
Chair of Steering Committee for Texas A&M College of Agricultural and Life Sciences Strategic Planning,1992
Elected Member Texas A&M University Council of Principal Investigators, 1996-8.
Member Texas A&M University Post -Tenure review Committee, 1996
Member Texas A&M Former Students Association Award Evaluation Committee, 1997
Leader of Research, Dept of Ag Econ, 2007-2023

Graduate Student Supervision and their positions[1]

Grad students completed
108 PhD
10 postdoc
23 MS thesis
3 MS non thesis

As of now 5 PhD in process

PhD Students

108. Bingru Sheng, "Three Essays On ENSO Effects an U.S. Crop Yields, and Decision-Making In A Food-Energy-Water Setting" , May, 2026 (American Airlines)
107. Yuhong "Helen" Lei, "Three Essays on Dairy Participation in Climate Mitigation" Texas A&M University, Dec, 2025 (in job market)
106. Zehao "Naomi" Liu, "Adapting U.S. Agriculture to a Changing Climate: Spatial Shifts in Crop Production, Grain ElevatInfrastructure, and The Evaluation Of Permanence" Texas A&M University, Dec, 2025 (in job market)
105. Kaiyi Zhang, "Advancing Sustainability in Agriculture: Evaluations of Soil Carbon Sequestration, Decarbonization and Economic Viability of Lignin-Based Bioproducts From Lignocellulosic Biorefining" Texas A&M University, Dec, 2025 (intern, Houston)
104. Lunyu "Colin" Zhao, "Regional Agriculture as Affected By Forest Loss and Carbon Prices" Texas A&M University, May, 2025 (TAMU Post-doc)
103. Lingyi Li, "Three Essays on Water Management Strategy, Climate Change Impacts on Agricultural Land Uses, and Grass-Fed Beef Market" Texas A&M University, August, 2024 (Stata)
102. Yayun "Birdy" Chen "Impacts of Hurricanes, and Algae-Based Jet Fuel, On Energy Production Economics and Markets" Texas A&M University, May, 2024 (TAMU Postdoc)
101. Phatchaya "Am" Piriyathanasak "International Trade Impact on Milk Product Market in the U.S. and LCA with Economic Analysis on Converting Lignin Waste to Sustainable Products" Texas A&M University, May, 2024 (Energy Company in Houston)
100. Muxi Cheng , "Three Essays on Climate Change Impacts on the U.S. Livestock Sector" , Texas A&M University, May, 2024 (American Airlines)
99. Hyung Ho "Ben" Park, The Economic and Environmental Effects of Alternative Renewable Fuel Standards and Implementing a

[1] * An asterisk indicates cases where I guided the thesis work but was not major professor. Last known position is underlined.

Cost of Carbon on Greenhouse Gas Emissions Mitigation in the United States, Texas A&M University, Aug, 2023 (KREI)

98. Xiaoyang “Lisa” Deng, The Economic Impact of Hurricane and Hurricane Forecast Accuracy on Oil and Gas Industry on the U.S. Gulf Coast, Texas A&M University, May, 2022 (Nationwide Insurance)
97. Yabin Da, Three Essays on ozone pollution, biofuel production, and climate change, Texas A&M University, May, 2022 (School of Agricultural Economics and Rural Development, Renmin University)
96. Lizhihan Yu, Case Studies On Medical Laboratory Decision Optimization And Grass-fed `Beef Market Penetration, Texas A&M University, August, 2021 (Nielson)
95. Yu-Kai Huang, Essays on Resource and Environmental Economics: Evidence From A Natural Experiment, Laboratory Experiment, and Scenario Forecasting, Texas A&M University, May, 2021 (Univ of Georgia then Univ of Illinois)
94. Panit Arunanondchai , Essays on Optimization Modeling and Risk Management: Biofuel Mandate, ETF Hedging, and Crop-Zoning Policy, Texas A&M University, May, 2020 (Hulu then Groupon)
93. Jifar Nata, Groundwater demand and aquifer sustainability in South Central Texas Region, PhD from Water Program, Texas A&M University, May, 2020 (consultant to IFPRI)
92. Minglu Wang, Three Essays on Economic and Environmental Analysis of Climate Change Adaptation and Mitigation in the U.S. Agricultural Sector, Texas A&M University, May, 2020 (Swefe, Chengdu)
91. Aurora Vargas, Essays on Procurement of Freshwater Water Scarce Regions and Climate Effects on Agricultural Technological, Texas A&M University, May 2020 (Model T Racing then COMCAST)
90. ChengCheng Fei, Three Essays on Food-Energy-Water Nexus Analysis and Afghanistan Food Security and Poverty, Texas A&M University, August, 2019 (TAMU Asst Prof)
89. Yingqian Yang, Economics of Energy Sector in FEW Nexus Water Stressed Region: A Case Study in South Central Texas, Texas A&M University, August, 2019 (TAMU PostDoc then returned to China)
88. Yuanyao Stanley Lee, Studies on Cost Minimizing Cellulosic Biofuel Supply Chain Design, Texas A&M University, May, 2019 (Univ of Illinois then RTI)
87. Guannan Zhao, Three Essays on Climate Change Mitigation Policies and Supply Chain Assessment for Biofuel Production, Ph.D. Dissertation, Texas A&M University, May, 2019 (NBC then Warner Music Group)
86. Anastasia Thayer, Three Essays on Drivers of Agricultural Change in Texas, Texas A&M University, Aug, 2018 (Utah State then Clemson)
85. XinXin Fan, Three Essays on Climate Change, Renewable Energy and Agriculture in the US, Ph.D. Dissertation, Texas A&M University, May, 2018 (Wood-Mackenzie Company in Houston then Postdoc at Cornell University and now Illinois)
84. Zidong "Mark" Wang, Three Essays on Climate Change, Renewable Energy and Agriculture in the US, Ph.D. Dissertation, Texas A&M University, Feb, 2018 (Alibaba, Shanghai)
83. Jun Cao, An Economic Analysis of Ghana’s Savannah Accelerated Development Program, Ph.D. Dissertation, Texas A&M University, May, 2017 (Private Business Startup)

82. Montalee Kapilakanchana, Effect of Technological Progress, Demand, and Energy Policy on Agricultural and Bioenergy Markets, Ph.D. Dissertation, Texas A&M University, December, 2016 (Bank of Thailand)
81. Lauren Ainsley Rhodes, Three Essays on the Economic Relationships Between Climate and Agriculture, Ph.D. Dissertation, Texas A&M University, December, 2016 (Escuela Superior Politecnica del Litoral, Ecuador)
80. Junyi Chen Three Essays on Interrelationships Among Conflict, Climate and Economics , Ph.D. Dissertation, Texas A&M University, August, 2016 (UBS, Franklin, TN then Amazon)
79. Sung Ju Cho, Three Essays on Climate Change Adaptation and Impacts: Econometric Investigations, Ph.D. Dissertation, Texas A&M University, December, 2015 (Korea Rural Economic Institute (KREI) then Jeju National University.)
78. Hong-Soek Seo, Agricultural Policy Analysis: Considering Policy Measure Updating in Milk Pricing and Crop Insurance , Ph.D. Dissertation, Texas A&M University, August, 2015 (Korea Rural Economic Institute (KREI))
77. Pei Huang, Three essays on economic and societal Implications of decadal climate variability and fishery management, Ph.D. Dissertation, Texas A&M University, December, 2014 (Blackrock, London).
76. Theepakorn Jithitikulchai, Essays on Applied Economics and Econometrics: Decadal Climate Variability Impacts on Cropping and Sugar-Sweetened Beverage Demand of Low-Income Families, Ph.D. Dissertation, Texas A&M University, December, 2014 (World Bank).
75. Layla Shiva, Economic Analysis on Voluntary Carbon Offset Market and Bioenergy Policy, Ph.D. Dissertation, Texas A&M University, December, 2014 (Tehran institute for advanced studies and Shahid Beheshti University).
74. Chin-Hsien Yu, Case Studies On The Effects Of Climate Change On Water, Livestock And Hurricanes, Ph.D. Dissertation, Texas A&M University, August, 2014 (Southwestern Univ. of Finance and Economics, China).
73. Jinxiu Ding, Three Essays on Climate Variability, Water and Agricultural Production, Ph.D. Dissertation, Texas A&M University, August, 2014 (Department of Public Economics, Xiamen University).
72. Jason Patrick Harris Jones, Crop Production Variability and U.S. Ethanol Mandates, Ph.D. Dissertation, Texas A&M University, August, 2014 (RTI then ICF).
71. Marta Wlodarz, Three Essays on Bioenergy Production in the United States, Ph.D. Dissertation, Texas A&M University, Dec 2013 (Mackenzie, Switzerland)
70. Zafarbek Ahmedov, Transportation Impacts of Biofuel Expansion and Impediments to Barge Transportation: An Economic Investigation, Ph.D. Dissertation, Texas A&M University, Aug 2013 (American Express)
69. Mario Fernandez, Decadal Climate Variability: Economic Implications in Agriculture and Water in the Missouri River Basin, Ph.D. Dissertation, Texas A&M University, Aug 2013 (Landcare, New Zealand)
68. Jin Xu, Essays in Financial Econometric Investigations of Farmland Valuations, Ph.D. Dissertation, Texas A&M University, Aug 2013 (China)
67. Fabián Méndez, Three Essays on Prequential Analysis, Climate Change and Mexican Agriculture, Ph.D. Dissertation, Texas A&M University, Aug 2013 (World Bank then Wells Fargo)

66. Siyi Feng, Three Essays on Agricultural and Forestry Offsets in Climate Change Mitigation, Ph.D. Dissertation, Texas A&M University, 2012 (AFBI, Nothern Ireland then Royal London)
65. Trang Phuong Thi Dang, Essays On Efficiency of the Farm Credit System and Dynamic Correlations in Fossil Fuel Markets, Ph.D. Dissertation, Texas A&M University, October 2012 (Research Analyst at Cofco Resources Vietnam Ltd)
64. Ruth Ada Amatu-Aisabokahae, Essays on Agricultural Adaptation to Climate Change and Ethanol Market Integration in the U.S., Ph.D. Dissertation, Texas A&M University, October 2012 (Dupont – Pioneer , Malaria Program for Clinton Health Access Initiative in Nigeria, then Microsoft)
63. Jiyun Park, Essays on Impacts of Climate Change on the Agricultural Sector in the U.S., Ph.D. Dissertation, Texas A&M University, June 2012 (Korea Rural Economic Institute (KREI))
62. Wei-Wei Wang, Three Essays on Climate Change Impacts, Adaptation and Mitigation in Agriculture, Ph.D. Dissertation, Texas A&M University, June 2012 (Energy consulting, Houston and now Dell, Austin)
61. Mark Musumba, Three Essays on Economic Development, Ph.D. Dissertation, Texas A&M University, April 2012 (University of Florida)
60. Jianhong Mu An Integrated Study of Avian Influenza Impacts and Associated Climate Change, Ph.D. Dissertation, Texas A&M University, Feb 2012 (Oregon State then Oklahoma State, Now Texas A&M)
59. Witsanu Attavanich Essays on the Effect of Climate Change on Agriculture and Agricultural Transportation Ph.D. Dissertation, Texas A&M University, Oct 2011 (Rutgers then Kasetsart University)
58. Wolfgang Yuquan Zhang Three essays on U.S. agriculture under climate change: active engagement in mitigation and adaptation Ph.D. Dissertation, Texas A&M University, Oct 2011 (RTI then IIASA then research assistant professor at Shanghai Jiaotong University (SJTU)'s.
57. Seongwoo Kim The Effect of Transactions Costs on GHG Emission Mitigation for Agriculture and Forestry, Ph.D. Dissertation, Texas A&M University, May 2011 (Korea Rural Economic Institute (KREI))
56. Darmawan Prasodjo An Economic Study of Carbon Capture And Storage System Design And Policy Ph.D. Dissertation, Texas A&M University, May 2011 (Duke University then Indonesian University now Senator in Indonesia and now chief of staff to President)
55. Justin Scott Baker, Evaluating The Impacts of Bioenergy Mandates and Terrestrial GHG Mitigation Options on Land Use, Water Resources And Economic Welfare, Ph.D. Dissertation, Texas A&M University, May 2011 (Duke then RTI)
54. Chih-Chun Kung, Essays on Economic and Environmental Analysis of Taiwanese Bioenergy Production on Set-Aside Land, Ph.D. Dissertation, Texas A&M University, December 2010 (Huazhong University of Science and Technology, Wuhan, China)
53. Hen-I Lin, Modeling Economic Resilience And Animal Disease Outbreaks In The Texas High Plains Ph.D. Dissertation, Texas A&M University, December 2010 (Cheung-Hua Institution for Economic Research, Taiwan)
52. Xavier Villavicencio Essays on the Effect of Climate Change Over Agriculture and Forestry Ph.D. Dissertation, Texas A&M University, December 2009 (Officer, Superintendencia de Bancos y Seguros, Ecuador, Now in office Of Ecuador Ambassador to

US in San Francisco, now Texas A&M Agrilife, Extension)

51. Aklesso Egbendewe-Mondzozo, Integrated Epidemic-Economic Modeling of Avian Influenza Mitigation Options: A Case Study of an Outbreak in Texas, Ph.D. Dissertation, Texas A&M University, December 2009 (Michigan State University then FEEM then University of Togo).
50. Amy D. Hagerman, Essays on Modeling the Economic Impacts of A Foreign Animal Disease on the US Agricultural Sector, Ph.D. Dissertation, Texas A&M University, December 2009 (USDA ERS then USDA APHIS, Now Oklahoma State)
49. Qi Gao, Three Essays on Bio-Security, Ph.D. Dissertation, Texas A&M University, December 2009 (Southwestern Univ. of Finance and Economics, China)
48. Wei Huang, The Impacts of Recent Avian Flu Outbreaks on Financial Markets, Ph.D. Dissertation, Texas A&M University, December 2009 (Southwestern Univ. of Finance and Economics, China)
47. Yongxia Cai, Water Scarcity, Climate Change and Water Quality: Three Economic Essays, Ph.D. Dissertation, Texas A&M University, May 2009 (MIT then RTI)
46. Rong Hu, Essays on the Economics of Biosecurity and Related Rood Safety Risks in the United States, Ph.D. Dissertation, Texas A&M University, December 2007 (Southwestern Univ. of Finance and Economics, China).
45. Manseung Han, Environmentally Related Water Trading, Transfers and Environmental Flows: Welfare, Water Demand and Flows, Ph.D. Dissertation, Texas A&M University, May 2008 (Junior college teacher, Austin).
44. Sang-Cheol Shin "Three Essays on Applied Economics" PhD, May 2008 (Research Fellow, Korea Environmental Institute (KEI)
43. Thein Maung, Market Penetration of Biomass Fuels for Electricity Generation, Ph.D. Dissertation, Texas A&M University, May 2008.(Bank of America, Dallas)
42. En Zhu, The Role of US Agricultural and Forest Activities in Global Climate Change Mitigation, Ph.D. Dissertation, Texas A&M University, August 2007. (Private business, Hong Kong)
41. Kenneth Ray Szulczyk, Market Penetration of Biodiesel and Ethanol, Ph.D. Dissertation, Texas A&M University, May 2007 (University in Malaysia).
40. Rubaba Mammad Ismayilova, Analysis of Producing Ethanol and Electric Power from Woody Residues and Agricultural Crops in East Texas, Ph.D. Dissertation, Texas A&M University, May 2007 (Government of Ontario).
39. Pablo Sherwell Cabello. Three Essays Concerning Economic Analysis Associated With The Supply Chain, Ph.D. Dissertation, Texas A&M University, Aug 2006. (Vice president Research, RaboBank)
38. Man-Keun Kim, Economic Investigation of Discount Factors for Agricultural Greenhouse Gas Emission Offsets, Ph.D. Dissertation, Texas A&M University, May 2004. (Professor, Utah State)
37. Levan Elbakidze, An Economic Exploration of Prevention Versus Response in Animal Related Bioterrorism Decision Making, Ph.D. Dissertation, December 2004. (Assistant Professor, Agricultural Economics, University of Idaho, and noe West Virginia)
36. Heng Chi Lee, An Economic Investigation of the Dynamic Role for Greenhouse Gas Emission Mitigation by the U.S. Agricultural and Forest Sectors, PhD Dissertation, Texas M University, December 2002. (Assistant Professor, Department of Logistics

Management, National Kaohsiung First University of Science and Technology, Taiwan)

35 Tanveer A. Butt, The Economic And Food Security Implications Of Population, Climate Change, And Technology - A Case Study For Mali, PhD Dissertation, Department of Agricultural Economics, Texas A&M University, August 2002 (Manager, American Express)

34. Uwe A. Schneider, Agricultural Sector Analysis on Greenhouse Gas Emission Mitigation in the U. S., 2000 (Professor and Group Leader Agricultural Economics and Resource Management, Climate Change Institute, University of Hamburg)

33. Chi-Chung Chen, Development and Application of Linked Global Trade-Detailed U. S. Agricultural Sector Analysis System, 2000. (Distinguished Professor, Department of Agricultural Economics, National Chung-Hsing University, Taiwan)

32. William I Nayda, “Three Essays on Farm Program Revisions” Ph.D. Thesis, Texas A&M University, 1998 (Research Leader, Capital One Credit then Second Pillar Consulting)

31. Ruby Ann Ward, "An Analysis of Potential Agricultural Reforms in the Texas Department of Criminal Justice", Dec 1998 (Associate Professor Utah State)

30. Keith O. Keplinger. "An investigation of Dry Year Options for the Edwards Aquifer. " Ph.D. Thesis, Texas A&M University, 1996. (Department of Agricultural Economics, Tarleton State)

29. Raymond Lynn Williams. "Economic and Hydrologic Implications of Edwards Aquifer Management Plans. " Ph.D. Thesis, Texas A&M University, 1996. (Associate Professor, Agribusiness, Fresno State University)

28. Karin Thaysen. "An Analysis of Agricultural Risk Implications of United States Policy Changes. " Texas A&M University, 1995. (JP Morgan Dallas)

27. Houshmand Ziari. "The Economic Feasibility of Run-Off Impoundments for Supplemental Irrigation in Blacklands Region of Texas. " Ph.D. Thesis, Texas A&M University, 1991. (HZ Associate, Oregon)

26. Carl Dillon. "An Economic Analysis of Edwards' Aquifer Water Management. " Ph.D. Thesis, Texas A&M University, 1991. (Professor, Agricultural Economics, University of Kentucky)

25. David Edwards. "Firms' Information Acquisition Decisions in a Microeconomic Context. " Ph.D. Thesis, Texas A&M University, 1990. (Senior Vice President, TIAA-CREF)

24. Aysen Tanyeri-Abur. "An Agricultural Sector Analysis of the United States Sugar Import Policy. " Ph.D. Thesis, Texas A&M University, 1990. (Senior Officer. Resources and Strategic Partnerships Unit, Office of Assistant Director-General UN FAO)

23. James R. Hastie. "Economic Evaluation of Projects and Policies Affecting Anadromous Fish: A Simulation Approach. " PhD Thesis, Oregon State University, October 1986. (Economics Team Leader, National Marine Fisheries Service, Seattle)

22. Linda Wear. "Producer Behavior and the Distribution of Potential Long-Run Consequences in the Agricultural Market. " Ph.D. Thesis, Oregon State University, September 1986. (Economics Consultant, Portland)

21. Michael S. Hanrahan. "Influences of Tillage System, Climate and Soils on the Demand for Topsoil in the Production of North Central Oregon Wheat. " Ph.D. Thesis, Oregon State University, May 1986. (Agricultural BMP Program Manager, Arizona Department of Water Resources)

20. Scott A. Hamilton. "The Economic Effects of Ozone on U.S. Agriculture: Sector Modeling Approach. " Ph.D. Thesis, Oregon State University, May 1985. (Farm Analyst in California)
19. David K. Lambert. "Risk Modeling Using Direct Solution of Expected Utility Maximization Problems. " Ph.D. Thesis, Oregon State University, February 1985. (Retired, Formerly Professor and Head, Agricultural Economics, North Dakota State and then Kansas State)
18. Talaat Y. El-Nazer. "Selecting Optimum Crop Rotation. " Ph.D. Thesis, Oregon State University, May 1984. (Private Business, Houston)
17. Morgan O. Job. "A Study of Technology Adoption by Subsistence Farmers with a Case Study Involving Dairy Goats in Kenya. " Ph.D. Thesis, Purdue University, December 1982. (Minister, Government of Trinidad/Tobago)
16. Douglas A. Barnett. "A Study of the Effects of U.S. Port Capacity Constraints on National and World Grain Shipments. " Ph.D. Thesis, Purdue University, December 1981.(Ag. Director. Operations Evaluation Department, African Development Bank)
15. Abdoulaye Niang. "A Linear Programming Model of a Representative Sahelian Farm Case Studies: Mali and Senegal. " Ph.D. Thesis, Purdue University, August 1980. (UN Economic Commission for Africa, Team Leader for Agriculture and Food Security at the Division of Sustainable Development)
14. Richard M. Klemme. "An Economic Analysis of the On-Farm Grain Handling Decision Problem. " Ph.D. Thesis, Purdue University, May 1980. (Professor and Head of Extension, University of Wisconsin)
13. Patrick Daniel O'Rourke. "Pricing Policies and the Firm in a Spatial Market: An Application to Retail Fertilizer. " Ph.D. Thesis, Purdue University, August 1979. (Professor, and Head, Agricultural Economics, Illinois State University)
12. Thomas F. Tice. "An Investigation of Nitrogen Application Under Uncertainty. " Ph.D. Thesis, Purdue University, August 1979. (Economist, USDA, FAS)
11. Jose Fortuny-Amat. "Multilevel Programming. " Ph.D. Thesis, Purdue University, August 1979, (Industrial Engineering). – Private Business, Riverside California)
10. Jeffery D. Apland. "A Production Based Analysis of Regional Crop Residue Supply for Energy Generation. " Ph.D. Thesis, Purdue University, August 1979. (Professor, Applied Economics, University Of Minnesota)
9. Abdulla B. Danok. "Effects of Weather Variability on Machinery Selection. " Ph.D. Thesis, Purdue University, May 1979. (Deceased, formerly Iraq Minister of Agriculture)
8. Harry S. Baumes. "A Partial Equilibrium Sector Model of U.S. Agriculture Open to Trade: A Domestic Agricultural and Agricultural Trade Policy Analysis. " Ph.D. Thesis, Purdue University, December 1978. (Assistant Director, USDA, Office of Energy)
7. Nancy K. Keith. "Aggregation in Large Scale Distribution Systems. " Ph.D. Thesis, Purdue University, December 1978. (Management) (Professor of Marketing, Southwest Missouri State)
6. George Howard Krauss. "Multicommodity Distribution with Spatial Allocation of Production. " Ph.D. Thesis, Purdue University, May 1978. (Management) (unknown)

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5. Luis A. Villa Issa. "Education and the Relation Between the Farm and Non-Farm Sector: A General Equilibrium Analysis of the Area of Plan Chiautla. " Ph.D. Thesis, Purdue University, May 1978. (Deceased, former member Mexican Council of Economic Advisors)
4. Joseph Polito, Jr. "Distribution Systems Planning in a Price Responsive Environment. " Ph.D. Thesis, Purdue University, August 1977. (Industrial Engineering) (Program Director, Nuclear Weapons Science and Technology Foundations, Sandia National Laboratories)
3. Thomas H. Spreen. "An Application of Capital Theory in a Recursive Linear Programming Model of the Cattle Sub-Sector of Guyana. " Ph.D. Thesis, May 1977. (Professor and Head, Food and Resource Economics, University Of Florida)
2. Kenneth C. Clayton*. "A Planning Model for Regional Solid Waste Management Systems." Ph.D. Thesis, May 1976. (Associate Administrator. Agricultural Marketing Service. U.S. Department Of Agriculture)
1. Lars G. Brink. "Plans, Decisions, and Results: An Evaluation of a Procedure for Farm Planning Under Risk." Ph.D. Thesis, September 1976. (Economist with the Strategic Policy Branch of Agriculture and Agri-Food Canada and member Swedish Academy of Science).

Post Docs

10. Lunyu Colin Zhao, 2023-2026
9. Mengqiao Liu, 2023-date
8. Yayun Birdy Chen, 2023-date
7. ChengCheng Fei, 2019-22 (TAMU Asst Prof)
6. Chi-Chung Chen, 2000-2003. (Distinguished Professor, Department of Agricultural Economics, National Chung-Hsing University, Taiwan)
5. Amy D. Hagerman, 2010-20111 (USDA ERS then USDA APHIS, Now Oklahoma State).
4. Wen You. Post Doc and Assistant Research Scientist. 2006. (Associate Professor, Department of Agricultural and Applied Economics, Virginia Tech)
3. Tasana Gillig - Dhazn Wattanawongwon, Post Doc working on Climate and Edwases Aquifer, 1999-2003 (Wells Fargo)
2. Ching-Cheng Chang, Post-Doc and Assistant Research Scientist, Sector modeling , 1988- 1992 (Research Fellow, Institute of Economics, Academia Sinica, Professor, Dept of Agricultural Economics, National Taiwan University)
1. Hayri Onal, Post-Doc and Visiting Assistant Professor, Shimp Fishery and Sector modeling , 1987-1989 (Department of Agricultural Economics, University of Illinois at Urbana-Champaign).

Students in Process

4. Jingyi Liu (PhD post prelim)
3. Yifan Yang (PhD post prelim)
2. Caroline Dong (PhD post prelim)
1. Linling Zhang(PhD post prelim)

MS Thesis

23. Yashaswini Bandimekala :Impacts Of Climate Change On Major Field Crops In India: A District-Level Panel Data Analysis MS Thesis, Texas A&M University, May 2026 (to join a PhD program)
22. Amit Bapu Ahire , Effect of Climate Change on Crop Yield MS Thesis, Texas A&M University, Aug 2023 (to join a PhD program)
21. Thrisha Garcia, Effectiveness and Efficiency of Polymers in Enhanced Oil Recovery of High Water Cut Reservoirs via Optimization under Uncertainty MS Thesis, Texas A&M University, Masters of Energy, Aug 2018 (Oil Company, Belize)
20. Hanlin Wei, Voluntary Carbon Market Participation and Unintended Consequences: An Economic Analysis MS Thesis, Texas A&M University, May 2016 (PhD program UC Davis, now College of Economics and Management, China Agricultural University)
19. Monica Galli, Movement Restriction Implications on Potential Welfare Slaughter for Texas High Plains Feedlots MS Thesis, Texas A&M University, December 2011 (USDA APHIS)
18. Randi Hughes- Friare, Assessment of U.S. Agriculture Sector and Human Vulnerability to A Rift Valley Fever Outbreak, MS Thesis, Texas A&M University, December 2010. (SYSCO)
17. Chris Looney, Comparative Cost Analysis of Alternative Animal Tracing Strategies Towards Foot and Mouth Disease Outbreaks in the Texas High Plains, MS Thesis, Texas A&M University, December 2009. (Texas Farm Credit)
16. Sung Wook Hong, The Usability of Switchgrass, Rice Straw, and Logging Residue as Feedstocks for Power Generation in East Texas, MS Thesis, Texas A&M University, May 2007. (Korean Industrial Economic)
14. Rajapakshage Inoka Chandrasena, The Cost of Agriculturally Based Greenhouse Gas Offsets in the Texas High Plains, M.S. Thesis, Texas A&M University, December 2003. (Living with husband in College Station)
14. Uwe Schneider, Economic Implications of the Boll Weevil Eradication, M.S. Thesis, Texas A&M University, December 1995. (University of Hamburg)
13. Christine Jerko. "The Economic Potential of Producing Energy from Agricultural Biomass" M.S. Thesis, Texas A&M University, 1996. (Northwest Energy Efficiency Alliance, Seattle)
12. Claudio Sousa. "Modeling Economic Impacts of Climate Change on U.S. Forests" M.S. Thesis, Texas A&M University, 1994.

(private business, Brazil)

11. Qifen He. "The Effect of Global Warming on U.S. Agriculture and Its Variability. " M.S. Thesis, Texas A&M University, 1992. (Economist, Caterpillar Tractor)
10. Walter B. Moore. "Off-Site Costs of Soil Erosion in the Willamette Valley of Oregon. " M.S. Thesis, Oregon State University, May 1985. (New Zealand Government)
9. Mark Ross. "Opportunity Costs: Irrigation vs. Hydropower. " M.S. Thesis, Oregon State University, May 1984. (Hospital manager, Portland Oregon)
8. Edward N. Bwisa. "Farm Level Impacts of Fertilizer as a New Crop Production Technology in Kenya. " M.S. Thesis, Purdue University, August 1980. (Ambassador Extraordinary and Plenipotentiary. Embassy of the Republic of Kenya. Addis Ababa, Ethiopia)
7. Douglas A. Barnett. "A Study of Farmers' Goals and Constraints: Their Effect on the Cultivation of Crops in Sine Saloum, Senegal. " M.S. Thesis, Purdue University, May 1979. (Ag. Director. Operations Evaluation Department, African Development Bank)
6. Abdoulaye Niang. "Use of a Mathematical Programming Approach in Malian Livestock Sector Policy Analysis. " M.S. Thesis, Purdue University, May 1979. (UN Economic Commission for Africa, Team Leader for Agriculture and Food Security at the Division of Sustainable Development)
5. Jeffery D. Apland*. "A Microeconomic Analysis of Supplemental Irrigation with Consideration of Risk. " M.S. Thesis, Purdue University, December 1977. (Professor, Applied Economics, University of Minnesota)
4. Daniel A. Fajardo. "Policy Analysis of Nicaraguan Agriculture: A Mathematical Programming Approach. " M.S. Thesis, Purdue University, August 1977. (Economist, Banco Central de Nicaragua)
3. Abdulla B. Danok. "Machinery Selection and Resource Allocation on State Farms in Iraq. " M.S. Thesis, September 1976. (Deceased Last was Iraq Minister of Agriculture)
2. Enrique Rivas. "A Multiperiod Production Planning Model for Cooperative Farms in the Inca Valley of Peru. " M.S. Thesis, August 1976. (Peru)
1. Donald A. Hilger. "An Evaluation of Subterminal Elevator Location in Selected Indiana Region. " M.S. Thesis, Purdue University, 1975. (Assistant Vice President, Cargill, Incorporated)

MS Non-thesis

3. Paiz Guillioli. Guillermo, M.S. Non-Thesis, 1988. (private Business, Miami)
2. Paul Turek. M.S. Non-Thesis, 1979. (Economist, State of Washington)
1. Jose Fortuny-Amat. Non-Thesis M.S., December 1976.(Private business, California)

Research contracts

1993-2012 and 2017-date

Year	Sponsor	Title	McCarl Role	Total Amount	McCarl Amount
1993	Congress of the U.S. Office of Technology	OTA Assessment of Agricultural Trade and Environment	PI	$32,808	$32,808
1993	Texas Water Development Board	Develop and Prepare Long-Range Forecast of Irrigation Water Demands Using the Linear Programming Software & Model Design	PI	$1,360	$1,360
1994	Texas Department of Criminal Justice	Whole-Farm Modeling of Enterprise Alternative-Identifying and Optimal Mix for TDCJ Agricultural Operations	PI	$349,155	$87,289
1995	Texas Water Development Board	Economic Implication of 'Dry-Year Option' Plan for the Edwards Aquifer Region	PI	$50,000	$50,000
1996	Texas Department of Criminal Justice	Implementing Use of the TDJC Whole Farm Linear Programming Model Analysis, Interpretation, and Management Training	CO-PI	$206,336	$51,584
1996	University of Florida	An Economic Analysis System for Examining Pest Management Alternatives in U.S. Agriculture: Design and Delivery	PI	$29,513	$29,513
1996	USDA AMS	Support the Conversion of "Damps" from Fortran and "C" Into "Generalized Algebraic Model System (GAMS) Language	PI	$7,556	$7,556
1996	USDA-Natural Resources Conservation	Resource Modeling and Analysis	CO-PI	$140,000	$66,000
1996	USAID SANREM	Sustainable impact analysis	Investigator	$1,000,000	$150,000
1997	USAID SANREM	Sustainable impact analysis	Investigator	$1,000,000	$150,000
1997	Texas Advanced Tech. Res. Program	Hierarchies and Coalitions in Cooperative Regional Water Management in Texas	PI	$179,274	$90,543
1998	USAID SANREM	Sustainable impact analysis	Investigator	$1,000,000	$150,000
1999	USAID SANREM	Sustainable impact analysis	Investig	$1,000,	$150,00

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2000	Colorado State University	Consortium for Agricultural Soils Mitigation of Greenhouse Gases (CASMGS)	CO-PI	$23,015	$7,672
2000	Environmental Protection Agency	Analysis of Greenhouse Gas Emissions From and Mitigation Options for the Agriculture Sector	PI	$56,429	$56,429
2000	USAID SANREM/FAO	Sustainable impact analysis	Investigator	$1,000,000	$150,000
2000	U.S. Department of Energy	Developing Supply Curves for Net Agricultural Greenhouse Gas-Emission for Use in Integrated Assessments: Methodology and Case	PI	$149,387	$149,387
2000	University of Iowa	Water Pollution Control-Research, Development, and Demonstration	PI	$22,000	$22,000
2002	Environmental Protection Agency	Analysis of Greenhouse Gas Emissions and Carbon Sequestration in The Agricultural and Forestry Sectors	PI	$89,946	$89,946
2002	Kansas State University	Consortium for Agricultural Soils Mitigation of Greenhouse Gases (CASMGS)	CO-PI	$1,502,332	$187,792
2002	U.S. Department of Energy	Developing Supply Curves for Net Agricultural Greenhouse Gas Emission for Use in Integrated Assessments: Methodology and Case	PI	$137,809	$137,809
2003	Environmental Protection Agency	Analysis & Report for Greenhouse Gas Emissions & Carbon Sequestration in the Agriculture & Forestry Sectors In Term of Gas	PI	$90,016	$90,016
2003	USDA-CSREES	Effects of Climate Change, Forest Certification, Biotechnology, and Industrial Concentration on the U.S. Forest Products Industry	CO-PI	$192,059	$64,020
2003	USDA-Natural Resources Conservation	Biomass for Tomorrows Energy and Greenhouse Gas Management Needs: An Economic, Engineering & Environmental Appraisal of Opportunity	PI	$716,388	$716,388
2004	Homeland Security	FAZD Center	Lead Economist	$18,000,000	$600,000
2004	Environmental Protection Agency	Trading for Land-Based Environmental Services: Overlapping Opportunities and Challenges in Greenhouse Gasses and Water	PI	$25,778	$25,778

2004	Environmental Protection Agency	Forestry & Agriculture Greenhouse Gas Analysis with the Forestry and Agriculture Sector Optimization Model	PI	$95,000	$95,000
2004	Texas Higher Education Cord. Board	Towards a Sustainable Water Policy in Texas Developing Capacity to Evaluate Transfers	PI	$226,177	$226,177
2005	CSREES	CSREES-USDA National Needs Masters Fellowships in Biosecurity and Integrity of the Agribusiness and Food Supply Chain	PI	$64,000	$64,000
2005	Environmental Protection Agency	Forestry & Agriculture Greenhouse Gas Analysis with the Forestry and Agriculture Sector Optimization Model	PI	$90,501	$90,501
2005	U.S. Dept. of Homeland Security-DOME	Best Practices and Guidelines for Contaminated Plant and Animal Disposal	PI	$194,000	$96,113
2006	Environmental Protection Agency	Renewable Transportation Fuels Analysis	PI	$54,000	$54,000
2006	USDA-CSREES	Biosecurity in the Agribusiness and Food Supply Chain	PI	$231,000	$231,000
2006	USDA-Economic Research Service	Modeling and Evaluation of Effectiveness of Avian Influenza Mitigation Options	CO-PI	$150,200	$150,200
2007	Battelle Memorial Institute	Animal Disease Consequence Modeling of Rift Valley Fever	CO-PI	$70,000	$23,333
2007	International Food Policy Research	Policy Options to Achieve Growth, Poverty Reduction, and Food Security Objectives of the Comprehensive African Agricultural Development	PI	$24,000	$24,000
2007	Homeland Security	FAZD Center	Lead Economist	$12,000,000	$412,000
2007	USDA	Using mathematical programming approach to model food choices and their consequences	Co-PI	$80,000	$10,000
2007	TAES	TAES Research Evaluation Capability Development and Use Proposal.	PI	200,000	200,000
2007	EPA	Statement of Work for 2007 Renewable Transportation Fuels Analysis	PI	50,000	50,000
2007	USDA Forest Service	Costs of Adaptation under Reactive versus Pro-Active Management	PI	$70,000	$70,000
2007	TAES	Location and Biofeedstock Production an Economic and	PI	$120,00	$50,000

		Environmental analysis		0	
2007	EPA/RTI	Enhance FASOM-GHG capability to assess and report mitigation program or policy options	PI	$10,000	$10,000
2007	EPA/RTI	Texas A&M Participation in FASOM Model Analysis of U.S. Renewable Fuels	PI	$100,000	$100,000
2008	TTI/UTCM	Shifts in Locus of Agricultural Production due to Climate Change and Implications for Transportation Flows in the U. S	PI	$60,000	$60,000
2008	Kansas State/Robertson	2008 Texas A&M University Efforts on CASMGS Outreach and Analysis	PI	$120,000	$70,000
2008	EPA	Statement of Work Forestry and Agriculture GHG Model Development and Analysis	PI	$104,000	$104,000
2008	EPA	Texas A&M Participation in FASOM Model Analysis of U.S. Renewable Fuels – renew	PI	$104,000	$104,000
2009	National Sorghum Growers	Sorghum and Bioenergy under the Renewable fuel provisions of the 2007 Energy Independence and Security Act	PI	$25,000	$25,000
2009	TTI/UTCM	Effect of Climate Change on Transportation Flows and Inland Waterways due to Climate-Induced Shifts in Crop Production Patterns	CO=PI	$50,000	$50,000
2009	USGS	Modeling Advisor for the Ecological Carbon Sequestration Project	PI	$3,000	$3,000
2010	USDA	Modeling the Economic Impacts in US Agriculture and Forestry of Implementing a National Framework to Mitigate Greenhouse Gas Emissions	PI	$125,000	$125,000
2010	Sorghum Growers	Sorghum as a bioenergy feedstock 2 under the renewable fuel provisions of the Energy Independence and Security Act of 2007	PI	$25,000	$25,000
2010		TAMU Contribution to RTI EPA Proposal in Response to U.S. Environmental Protection Agency (EPA) RFP NO. PR-CI-09-10477, "Analysis and Support Services for the Office of Transportation and Air Quality, Transportation and Climate Change	PI	$110,000	$110,000
2010	OAP	Economic and Groundwater Use Implications of Bioenergy Feedstocks Production in the OAP Region	CO-PI	$60,000	$50,000
2010	USGS	TAMU support of USGS Carbon Sequestration Project	PI	$20,000	$20,000

2009	Borlaug Institute/USAID	Iraqi Farm Model	PI	$40,000	$40,000
2009	DHS	FAZD Renewal	CO-PI	$12,500,000	$150,000
2011	NSF/USDA	Decadal Climate	Co-PI	1,000,000	$300,000
2012	NOAA	Decadal Climate	Co-PI	400,000	$200,000
2012	EPA	Climate change	PI	100,000	
2012	EPA	RFS	PI	50,000	
2012	Usda ams	Milk modeling	Pi	30,000	
2016	NSF INFEWS	A Modeling Framework to Couple Food, Energy, and Water in the Teleconnected Corn and Cotton Belts	CO-PI	3,000,000	
2016	DOE Sun Grant	Modeling and Analysis of the Logistical Challenge of Supplying Biomass for Biofuel and BioPower	PI	150,000	
2017	USDA AFRI	Diversifying the Water Portfolio for Agriculture in the Rio Grande Basin	CO-PI	5,000,000	
2017	NSF INFEWS	INFEWS/T3l: Decision Support for Water Stressed FEW Nexus Decisions	PI	2,400,000	
2018	DOE	Multi-stream Integrated Biorefinery Enabled by Waste Processing	CO-PI	2,000,000	
2018	DHS	Optimization in Animal Disease – through IIAD	CO-PI	100,000	
Total				$67,826,039	$6,506,214

Contract Involvements before 1993

Year	Agency	General Area of Inquiry	McCarl Role	Approx Dollars	Approx Ageco Share	Time
1974-6	Agency for International	Livestock grant to expand tropical livestock development competence	Investigator	$250,000	$250,000	3 years

1974-6	Agency for International	Linkages between population demographics and economic development	Investigator	$250,000	$250,000	1 year
1977	National Science Foundation	Energy Use Alternatives for farms	Investigator	$150,000	$150,000	1 year
1979-1982	Agency for International	Farm Level economics of sorghum and millet production in Africa	Investigator	$2,000,000	$2,000,000	3 years
1977	U.S. Department of Agriculture	Development of agricultural sector model	PI	$30,000	$30,000	2 years
1979	Brookhaven National Labs	Energy saving technology for food processing	CO PI	$60,000	$60,000	2 years
1980	North Central Committee on Pest Management	Farm level economic impacts of pesticide withdrawal	CO PI	$30,000	$30,000	2 years
1981	U.S. Department of Agriculture	The role of ports in the grain export system	PI	$100,000	$100,000	2 years
1980	National Science Foundation	Energy conservation in food processing	CO PI	$150,000	$150,000	1 year
1977	Office of Technology Assessment	Production of energy by agricultural sector	Investigator	$250,000	$125,000	1 year
1978	U.S. Department of Agriculture	Income tax and farm structure	Investigator	$30,000	$30,000	1 year
1977	Indiana Legislature	Structure of Indiana farming sector concentrating on mid-sized farm development	Investigator	$200,000	$200,000	3 years
1980	U.S. Department of Agriculture	Typical counties farm structure	PI	$40,000	$40,000	1 year
1980	Kellogg Foundation	Development of Indiana FACTS computer network	Investigator	$2,000,000	$100,000	5 years

1982	U.S. Department of Agriculture	Development of spatial equilibrium model	PI	$20,000	$20,000	1 year
1983	U.S. Environmental Protection	Appraisal of regional effects of air pollution	PI	$40,000	$40,000	1 year
1983	USDA - Forest Service	Investigation of the effects of exchange rates on timber trade	PI	$25,000	$25,000	1 year
1982	Winrock International	Appraisal of the effects of dairy goat technology in Kenya	PI	$40,000	$40,000	2 years
1983	USAID - International Plant	Work on economics of weed control	PI	$30,000	$30,000	2 years
1985	U.S. Department of Interior	Hydropower-irrigation tradeoffs in the Columbia River Basin under variable critical flows, acreage development level, and power supply-demand balances	PI	$100,000	$100,000	1 year
1982-4	U.S. Environmental Protection	National benefits of ozone control	PI	$50,000	$50,000	1 year
1985	U.S. Environmental Protection	National benefits of reductions in acid deposition	PI	$30,000	$30,000	1 year
1985	U.S. Department of Interior	Decision making of fisherman	PI	$100,000	$100,000	2 years
1987	U.S. Department of Commerce	Shrimp Management	CO PI	$150,000	$150,000	3 years
1988	U.S. Department of Agriculture	Research Assessment	PI	$50,000	$50,000	1 year
1988	Sorghum Growers Association	Effects of Target Price Revision	PI	$30,000	$30,000	1 year
1989	INSORMIL Sorghum CRSP	Effects of Research Investments	CO PI	$50,000	$50,000	1 year
1990	US Corps of Engineers	Benefits of Salinity Control	CO PI	$75,000	$75,000	1 year
1992	AMPI	Develop Milk Distribution Model	CO PI	$10,000	$10,000	1 year

1991	USDA. NRCS	Study of Farm Program and Edwards Aquifer Water Use	PI	$100,000	$100,000	1 year
1992	Texas Water Dev Board	Study of Dry Year Option and Edwards Aquifer Water Use	PI	$100,000	$100,000	1 year
Total				$6,540,000	$4,515,000	

International Experience

Projects

1. Population project, Purdue University
   - study of linkage between agriculture and population
2. 211d Project, Purdue University
   - competence building in terms of livestock systems analysis
3. West African Project, Purdue University
   - farming systems work throughout West Africa
4. International Plant Protection Center, Oregon State University
   - economics of weed control short course materials involving both economics and micro computing applied to weed control
5. Analysis of supply prospects for non-rice food supply in Indonesia for World Bank
6. Consultant to Brazilian research organization EMBRAPA on modeling for policy and research program analysis
7. Development of a primer on soil conservation project analysis for World Bank
8. Instruction of short course on modeling using GAMS for World Bank
9. Supervised numerous MS and Ph.D. projects with international focus
10. Advisor to Egyptian Water Master Planning Group in ministry of Irrigation. Carried out an analysis of potential changes in cropping patterns in response to low water levels behind the High Aswan dam.
11. Advisor to Egyptian Ministry of Agriculture on Price Policy Reform.
12. Advisor to Government of Jordan and Sigma One Corporation on Cropping Pattern Policy.
13. Preparation of paper on Environmental Policy Analysis Using Mathematical Programming.
14. Appraisal of value of INSORMIL CRSP research in terms of US Agriculture
15. Numerous international symposia on climate change and carbon sequestration

Geographic Work

1. Farming systems work in Brazil, Peru, Kenya, Mali, Senegal, Upper Volta, Indonesia, Iraq, Costa Rica
2. Policy work in Nicaragua, Mexico, Brazil, Indonesia, Senegal, Philippines, Guyana, Egypt, Jordan.
3. Travel in professional setting to: Brazil, Guyana, Trinidad, Barbados, Jamaica, Mexico, Belize, USSR, Sweden, Indonesia, Costa Rica, Egypt
4. International trade work on exchange rates; foreign implications of domestic policy; port development; trade in corn, soybeans, fertilizer, wheat, and lumber; along with methodological efforts
5. Supervision of people during resident research projects in the following: Senegal, Kenya, Indonesia, Brazil, Mali, Ivory Coast

Texas A&M Recent Teaching

Classes Taught

AGECON 641

PhD level course that introduces students to mathematical programming application. Course emphasizes modeling, interpretation and complete problem analysis

AGECON 677

PhD level course Resource Economics Frontiers where McCarl teaches one half of the class on Climate Change Economics. The course is designed to 1) introduce students to the topic of climate change and its economic aspects and 2) improve students ability to assess economic questions by examining and discussing approaches used in assessments regarding effects, adaptation and mitigation.

AGECON 622

MS level source designed to teach Agricultural Economics graduate students how to use linear programming, forecasting, and simulation for business decision making. The business analysis tools covered are chaosen and delivered in a form to be useful for business decision making and employers of our students expect you to know how to use these tools. In has become apparent that more than 25% of our students get jobs based on knowing how to use these tools. McCarl has had responsibility for first 1/2 of class. He uses graduate students to deliver the part of the class he is responsible for and has done this for over 10 years.

ICPE 611

MS course in the Energy Institute Masters of Energy Program. Course is designed to expose students without an econpomic background to basic economic concepts as they relate to energy market and analysis of energy related questions. This involves coverage of energy markets; how the government policies affect the energy economy; energy economic implications of climate change; and economics of bioenergy production. McCarl taught half of the course, Richard Woodward the other half.