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Education

Ph.D., Environmental Science, Iowa State University, Ames, Iowa, 2008

M.S., Agricultural Engineering, Iowa State University, Ames, Iowa, 1986

B.S., Agricultural Engineering, Iowa State University, Ames, Iowa, 1984

Work Experience

Associate Scientist, Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa, June 2008 to present

Assistant Scientist III, Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa, August 1998 to June 2008

Assistant Scientist II, Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa, July 1993 to August 1998

Research Associate III, Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa, July 1989 to July 1993

Research Assistant, Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa, November 1987 to July 1989

Research Analyst, Center for Agricultural and Rural Development, Iowa State University, Ames, Iowa, January 1987 to November 1987

Graduate Research Assistant, Agricultural Engineering Department, Iowa State University, Ames, Iowa, 1984 to 1986

Recent Grants (PI and Co-PI)

U.S. Department of Agriculture, National Institute of Food and Agriculture. Climate Change, Mitigation, and Adaptation In Corn-Based Cropping Systems. 2011-2015 (with L. Wright-Morton, C.L. Kling, and 39 others), \$20,000,000 (\$641,571 to CARD)

University of Iowa, Iowa Flood Center. Impact of Land Use and Climate change on Flood Risk and Ecosystem Services for Major Iowa Watersheds. 2010-2011 (with C.L. Kling), \$100,000.

U.S. Department of Agriculture, Economic Research Service. Economics of Markets for Agricultural Greenhouse Gases. 2010-2011 (with C.L. Kling), \$109,000.

U.S. Environmental Protection Agency (Region 7). Improving a Watershed Scale Model to Integrate Wetlands into Watershed Planning. 2010-2012 (with M. Soupir, W. Crumpton, M. Helmers, and M. Jha), \$303,390 (\$27,120 to CARD).

National Science Foundation. Northern Gulf of Mexico Hypoxia and Land Use in the Watershed: Feedback and Scale Interactions. 2010-2013 (with C.L. Kling, M. Jha, R. Srinivasan, J. Arnold, N. Rabalais, R.E. Turner, S. Rabotyagov, and M. Moskal), \$1,373,369 (\$655,289 to CARD).

U.S. Department of Agriculture, Economic Research Service. The supply of greenhouse gas offsets from agriculture and their water quality effects in the Upper Mississippi River Basin. 2010-2011 (with C. Kling and M. Jha), \$100,000.

U.S. Environmental Protection Agency. A Market Feasibility Assessment for a Reverse Auction in the Boone River Watershed. 2009-2011 (with C.L. Kling, M. Jha, K. Schilling, C. Wolter, and S. Rabotyagov), \$200,000.

U.S. Environmental Protection Agency. A Market Feasibility Assessment for a Reverse Auction in the Walnut Creek Watershed. 2009-2011 (with C.L. Kling, M. Jha, K. Schilling, C. Wolter, and S. Rabotyagov), \$200,000.

U.S. Environmental Protection Agency. A Market Feasibility Assessment for Water Quality Trading and Reverse Auctions in the Raccoon River Watershed. 2009-2011 (with C.L. Kling, M. Jha, K. Schilling, C. Wolter, and S. Rabotyagov), \$200,000.

U.S. Department of Agriculture, Natural Resources Conservation Service. Modeling and Analytical Assistance for the Conservation Effects Assessment Project (CEAP). 2009-2010, \$25,000.

U.S. Environmental Protection Agency (Region 7). Development of SWAT Hydrologic Parameters for Specific Iowa Landform Regions. 2009-2010 (with M. Jha, K. Schilling, C. Wolter, and M. Buyck). \$76,797 total (\$65,421 to CARD).

National Science Foundation. Biofuels and the Hydrologic Cycle. 2008-2010 (with R.P. Anex, B.K. Gelder, M.K. Jha, and R.W. Arritt). \$307,903 total (\$74,907 to CARD).

U.S. Department of Agriculture, Natural Resources Conservation Service. Modeling and Analytical Assistance for the Conservation Effects Assessment Project (CEAP). 2008-2009 (with C.L. Kling), \$28,000.

U.S. Environmental Protection Agency (Region 7). Guiding Land Management Decisions Toward More Sustainable Biofuel Development: Modeling Land Management Decision-Making Among Diverse Stakeholders. 2007-2009 (with R. Cruse, S. Secchi, A. Elobeid, and S. Tokgoz), \$92,641.

Leopold Center for Sustainable Agriculture, Iowa State University. Agriculture Systems-management & Performance Initiative. 2007-2008 (with S. Secchi and M. Duffy), \$14,094.

U.S. Department of Energy-U.S. Department of Agriculture, Cooperative State Research, Education, and Extension Service. Expansion of ethanol production: evaluation of costs and benefits to rural communities in the Upper Mississippi River Basin. 2007-2010 (with L. Kurkalova, C.L. Kling, S. Secchi, M. Jha, A. Carriquiry and D. Otto), \$676,722 (\$357,622 to CARD).

Agricultural Marketing Resource Center. Helping Farmers Make Decisions in the Bioeconomy: Mapping the Potential for Switchgrass in Iowa Relative to Corn and Soybeans. 2007-2008 (with B. Babcock and S. Secchi), \$75,000.

U.S. Department of Agriculture, Natural Resources Conservation Service. Modeling and Analytical Assistance for the Conservation Effects Assessment Project (CEAP). 2007-2008 (with C.L. Kling), \$35,000.

Joint NASA- U.S. Department of Agriculture, Cooperative State Research, Education, and Extension Service. Interactive Drivers of Land Use/Land Cover Change in Agricultural Areas: Climate and Land Manager Choices. 2006-2008 (with C.L. Kling, H. Feng, S. Secchi, and E. Tackle), \$465,900.

U.S. Department of Agriculture, Natural Resources Conservation Service. Modeling and Analytical Assistance for the Conservation Effects Assessment Project (CEAP). 2006-2007 (with C.L. Kling), \$45,000.

Prairie Rivers of Iowa RC&D (funding from U.S. Department of Agriculture USDA Natural Resources Conservation Service). Rapid Watershed Assessment for the Boone River Watershed, the Upper Iowa Watershed and the South Skunk Watershed. 2006-2007 (with T. Isenhardt, C.L. Kling, S. Secchi and M. Tomer), \$72,500.

Iowa Farm Bureau, Leopold Center for Sustainable Development, Iowa Soybean Association, Iowa Corn Growers Association. Assessment of Conservation Practices on Agricultural Cropland in Iowa. 2006 (with C.L. Kling, H. Feng, S. Secchi, and M. Jha), \$55,000.

U.S. Department of Agriculture, Cooperative State Research, Education, and Extension Service. Economics and Water Quality Effects of Multiple Conservation Practices in Three Midwest Watersheds. 2005-2008 (with C.L. Kling, M. Helmers, T. Isenhardt, W. Simpkins, K. Schilling, and M. Al-Kaisi), \$645,000.

U.S. Department of Agriculture, Cooperative State Research, Education, and Extension Service. Water Resource Degradation in the Boone Watershed: Integrating Stakeholder Knowledge and Preferences with Economic and Watershed Models. 2005-2008 (with C.L. Kling, M. Duffy, L. Kurkalova, H. Feng, S. Secchi, and J. Cooper), \$590,000.

Awards and Honors

Transactions of the ASABE Soil and Water Division 2010 invited research paper (with J.R. Williams, S. Wang, A. Saleh, E. Osei, L. Hauck, C. Izaurrealde, and J. Flowers)

2010 Iowa State University College of Agriculture and Life Sciences Professional and Scientific Research Award.

Special Speaker: 2009 International Agricultural Engineering Conference, December 7-10, 2009, Bangkok, Thailand.

2008 Iowa State University Professional and Scientific Research Award.

2008 Iowa State University College of Agriculture and Life Sciences Team Award (with C. Kling, H.F. Hennessy, M. Jha, T. Campbell, and S. Secchi).

Keynote Speaker: 1st Symposium of Integrated Management of Water Resources, March 26-28, 2008, University of Passo Fundo, Passo Fundo, Brazil.

Transactions of the ASABE Soil and Water Division 2007 invited research paper (with M.R. Reyes, C.H. Green, and J.G. Arnold).

American Agricultural Economics Association Annual Meeting Poster Presentation awards; first place 2003; second place 2004, 2005, and 2006 (with C.L. Kling, L. Kurkalova, S. Secchi, M. Jha and several other co-authors)

Alpha Epsilon Honor Society, Iowa Pi Chapter

Professional Activities

Professional Societies: American Society of Agricultural and Biological Engineers (ASABE); Soil and Water Conservation Society (SWCS); American Geophysical Union (AGU); Asian Association for Agricultural Engineering (AAAE)

Associate Editor: Journal of Environmental Quality (3-year term: 2010-2012);

Division Editor: Soil, Water, and Environmental Engineering Division, International Journal of Agricultural Engineering (3-year term: 2011-2013)

Journal Reviewer: Ecological Economics, Ecological Modelling, Environmental Modelling & Software, Hydrological Processes, Journal of the American Water Resources Association, Journal of Environmental Quality, Journal of Hydrologic Engineering, Journal of Hydrology, Journal of Soil and Water Conservation, Transactions of the ASABE, Water Resources Research, and other journals

Soil and Water Assessment Tool (SWAT) Modeling Workshops, Iowa State Univ. (Lead Organizer): Simulation of Riparian Zones with SWAT, September 9-10, 2004; SWAT ArcView-based Modeling Workshop, February 21-22, 2006; SWAT ArcGIS-based Modeling Workshop, March 16-20, 2009; SWAT Autocalibration Mini-Workshop, October 20, 2010

Professional Conference Committees (Session Moderator, Paper Chairman, Other Roles):

ASAE/ASABE Water Quality conferences: March 11-13, 2002, Fort Worth, TX; November 8-12, 2003, Albuquerque, NM; March 5-9, 2005, Atlanta, GA; March 29-April 3, 2008, Concepcion, Chile
Iowa State Univ. Conferences: Iowa Water Conference, February 26-27, 2008; Hypoxia in the Gulf of Mexico: Implications and Strategies for Iowa, October 16, 2008
Soil and Water Assessment Tool (SWAT) conferences: First Southeast Asia, January 5-8, 2009, Chiang Mai, Thailand; 5th International, August 5-7, 2009, Boulder, CO; 2010 International, August 4-6, Seoul, South Korea; Second Southeast Asia, January 6-7, 2011, Ho Chi Minh City, Vietnam; 2011 International, June 15-17, 2011, Toledo, Spain
Plenary Session Speaker: Second Southeast Asia, January 6-7, 2011, Ho Chi Minh City, Vietnam

Professional Association Committees: ASABE SW-21 Hydrology Group (2010-2012) and SW-26 Countryside Engineering Group (2011-2013)

Consulting: Modeling consultant to AGREN, Inc. for Raccoon River Master Plan development

Advisory Board: Iowa Geological Survey Bureau

Journal Articles

Secchi, S., **P.W. Gassman**, M. Jha, L. Kurkalova, and C.L. Kling. 2011. The water quality effects of corn expansion in the Upper Mississippi River Basin. *Ecological Applications* (in press; preprint available at <http://www.esajournals.org/doi/pdf/10.1890/09-0619.1>).

Secchi, S., L. Kurkalova, **P.W. Gassman**, and C. Hart. 2011. Land use change on the intensive and extensive margin in a biofuels hotspot: the case of Iowa, USA. *Biomass and Bioenergy* (In Press).

Gassman, P.W., J.A. Tisl, E.A. Palas, C.L. Fields, T.M. Isenhardt, M.J. Helmers, C.F. Wolter, K. Schilling, and L.S. Seigley. 2010. Conservation practice establishment in two northeast Iowa watersheds: Strategies, water quality implications, and lessons learned. *Journal of Soil and Water Conservation* 65(6): 381-392.

Jha, M., K.E. Schilling, **P.W. Gassman**, and C.W. Wolter. 2010. Targeting land cover change for nitrate load reductions in an agricultural watershed. *Journal of Soil and Water Conservation* 65(6):342-352.

Graiprab, P., K. Pongput, N. Tangtham, and **P.W. Gassman**. 2010. Hydrologic evaluation and effect of climate change on the At Samat watershed, northeastern region, Thailand. *International Agricultural Engineering Journal* 19(2): 12-22.

Rabotyagov, S., T. Campbell, M. Jha, **P.W. Gassman**, J. Arnold, L. Kurkalova, S. Secchi, H. Feng, and C.L. Kling. 2010. Least cost control of agricultural nutrient contributions to the Gulf of Mexico hypoxic zone. *Ecological Applications* 20(6): 1542-1555.

Jha, M., C.F. Wolter, K.E. Schilling, and **P.W. Gassman**. 2010. TMDL analysis with SWAT modeling for the Raccoon River watershed in Iowa. *Journal of Environmental Quality*. 39:1317-1327.
Doi:10.2134/jeq2009.0392.

- Gassman, P.W.**, J.R. Williams, S. Wang, A. Saleh, E. Osei, L. Hauck, C. Izaurralde, and J. Flowers. 2010. The Agricultural Policy/Environmental Extender (APEX) model: An emerging tool for landscape and watershed environmental analyses. *Trans. of the American Society of Agricultural and Biological Engineers (Invited Paper Series)* 53(3): 711-740.
- Jha, M., B.A. Babcock, **P.W. Gassman**, and C.L. Kling. 2009. Economic and environmental impacts of alternative energy crops. *International Agricultural Engineering Journal* 18(3-4): 15-23.
- Yin, L., X. Wang, J. Pan, and **P.W. Gassman**. 2009. Evaluation of APEX for daily runoff and sediment yield from three plots in the Upland Huaihe River watershed, China. *Trans. of the American Society of Agricultural and Biological Engineers* 52(6): 1833-1845.
- Rossi, C.G., R. Srinivasan, K. Jirayoot, T. Le Duc, P. Souvannabouth, N. Binh, and **P.W. Gassman**. 2009. Hydrologic evaluation of the Lower Mekong River Basin with the Soil and Water Assessment Tool Model. *International Agricultural Engineering Journal* 18(1-2): 1-13.
- Jha, M., S. Rabotyagov, and **P.W. Gassman**. 2009. Optimal placement of conservation practices using genetic algorithm with SWAT. *International Agricultural Engineering Journal* 18(1-2): 41-50.
- Hunt, W.F., N. Kannan, J. Jeong, and **P.W. Gassman**. 2009. Stormwater best management practices: Review of current practices and potential incorporation in SWAT. *International Agricultural Engineering Journal* 18(1-2): 73-89.
- Secchi, S., **P.W. Gassman**, J.R. Williams, and B. Babcock. 2009. Corn-based ethanol production and environmental quality: A case of Iowa and the Conservation Reserve Program. *Environmental Management* 44(4): 732-744. Doi: 10.1007/s00267-009-9365-x.
- Tornquist, C., **P.W. Gassman**, E. Giasson, J. Mielniczuk, and T. Campbell. 2009. Spatially explicit simulations of soil C dynamics in southern Brazil: Integrating Century and GIS with i_Century. *Geoderma* 150(3-4): 404-414. Doi: 10.1016/j.goederma.2009.03.001.
- Feng, H., M. Jha, and **P. Gassman**. 2009. Allocating nutrient load reduction across a watershed: Implications of different principles. *Review of Agricultural Economics* 31(1): 183-204.
- Schilling, K. E., M. K. Jha, Y. Zhang, **P. W Gassman**, and C. F. Wolter. 2008. Impact of land use and land cover change on the water balance of a large agricultural watershed: Historical effects and future directions. *Water Resource Research* 44: W00A09, Doi:10.1029/2007WR006644.
- Williams, J.R., J.G. Arnold, J.R. Kiniry, **P.W. Gassman**, and C.H. Green. 2008. History of model development at Temple, Texas. *Hydrological Sciences Journal* 53(5): 948-960.
- Wang, X., **P.W. Gassman**, J.R. Williams, S. Potter, and A.R. Kemanian. 2008. Modeling the impacts of soil management practices on runoff, sediment yield, maize productivity, and soil organic carbon using APEX. *Soil and Tillage Research* 101(1-2): 78-88.
- Volk, M., G. Schmidt, J. Hirschfeld, A. Dehnhardt, C. Bohn, S. Liersch, and **P. Gassman**. 2008. GIS-based integrated ecological-economic modelling in support of water pollution management of the Upper Ems River basin, Germany. *Ecological Economics* 66(1): 66-76.

- Gassman, P.W.**, M. Reyes, C.H. Green, and J.G. Arnold. 2007. The Soil and Water Assessment Tool: Historical development, applications, and future directions. *Transactions of the American Society of Agricultural and Biological Engineers (Invited Paper Series)* 50(4): 1211-1250.
- Secchi, S., M. Jha, L. Kurkalova, H. Feng, **P.W. Gassman**, and C.L. Kling. 2007. Privatizing ecosystem services: Water quality effects from a carbon market. *CHOICES: The Magazine of Food, Farm, and Resource Issues*. American Agricultural Economics Association 22(2): 97-101.
- Schilling, K.E., M.D. Tomer, **P.W. Gassman**, C.L. Kling, T.M. Isenhardt, T.B. Moorman, W.W. Simpkins, and C.F. Wolter. 2007. A tale of three watersheds: Non-point source pollution and conservation practices across Iowa. *CHOICES: The Magazine of Food, Farm, and Resource Issues*. American Agricultural Economics Association. 22(2): 87-95.
- Reungsang, P., R.S. Kanwar, M. Jha, **P.W. Gassman**, K. Ahmad, and A. Saleh. 2007. Calibration and Validation of SWAT for the Upper Maquoketa River Watershed. *International Agricultural Engineering Journal* 169(1-2): 35-48.
- Jha, M., **P.W. Gassman**, and J.G. Arnold. 2007. Water Quality Modeling for the Raccoon River Watershed using SWAT2000. *Transactions of the American Society of Agricultural and Biological Engineers* 50(2): 479-493.
- Mishra, A., J. Froebrich, and **P.W. Gassman**. 2007. Evaluation of the SWAT model for assessing sediment control structures in a small watershed in India. *Transactions of the American Society of Agricultural and Biological Engineers* 50(2): 469-477.
- Feng, H., L.A. Kurkalova, C.L. Kling, and **P.W. Gassman**. 2007. Transfers and environmental co-benefits of carbon sequestration in agricultural soils: retiring agricultural land in the Upper Mississippi River Basin. *Climatic Change* 80(1-2): 91-107.
- Secchi, S., **P.W. Gassman**, M. Jha, L. Kurkalova, H.H. Feng, T. Campbell, and C. Kling. 2007. The cost of cleaner water: Assessing agricultural pollution reduction at the watershed scale. *Journal of Soil and Water Conservation* 62(1): 10-21.
- Gassman, P.W.**, E. Osei, A. Saleh, J. Rodecap, S. Norvell, and J.R. Williams. 2006. Alternative practices for sediment and nutrient loss control on livestock farms. *Agriculture, Ecosystems and Environment* 117(2-3): 135-144.
- Feng, H., L. Kurkalova, C.L. Kling, and **P.W. Gassman**. 2006. Environmental conservation in agriculture: land retirement vs changing practices on working land. *Journal of Environmental Economics and Management* 52: 600-614.
- Jha, M., J.G. Arnold, **P.W. Gassman**, F. Giorgi, and R. Gu. 2006. Climate change sensitivity assessment on Upper Mississippi River Basin streamflows using SWAT. *Journal of the American Water Resources Association* 42(4): 997-1015.
- Feng, H., C.L. Kling, L.A. Kurkalova, S. Secchi, and **P.W. Gassman**. 2005. The Conservation Reserve Program in the Presence of a Working Land Alternative: Implications for Environmental Quality, Program Participation, and Income Transfer. *American Journal of Agricultural Economics* 87(5): 1231-1238.

- Feng, H., C.L. Kling, and **P.W. Gassman**. 2004. Carbon sequestration, co-benefits, and conservation programs. *CHOICES: The Magazine of Food, Farm, and Resource Issues*. American Agricultural Economics Association. 19(3): 19-24.
- Jha, M., **P.W. Gassman**, S. Secchi, R. Gu, and J. Arnold. 2004. Effect of watershed subdivision on SWAT flow, sediment, and nutrient predictions. *Journal of the American Water Resources Association* 40(3):811-825.
- Osei, E., **P.W. Gassman**, L.M. Hauck, S. Neitsch, R.D. Jones, J. Mcnitt, and H. Jones. 2003. Using nutrient management to control nutrient losses from dairy pastures. *Journal of Range Management* 56: 218-226.
- Osei, E., **P.W. Gassman**, L.M. Hauck, R. Jones, L. Beran, P.T. Dyke, D.W. Goss, J.D. Flowers, and A.M.S. McFarland. 2003. Economic costs and environmental benefits of manure incorporation on dairy waste application fields. *Journal of Environmental Management* 68(1):1-11.
- Chung, S.W., **P.W. Gassman**, R. Gu, and R.S. Kanwar. 2002. Evaluation of EPIC for assessing tile flow and nitrogen losses for alternative agricultural management systems. *Transactions of the American Society of Agricultural and Biological Engineers* 45(4):1135-1146.
- Gassman, P.W.**, E. Osei, A. Saleh, and L.M. Hauck. 2002. Application of an environmental and economic modeling system for watershed assessments. *Journal of the American Water Resources Association* 34(1):73-89.
- Chung, S.W., **P.W. Gassman**, D.R. Huggins, and G.W. Randall. 2001. Evaluation of EPIC for tile flow and tile nitrate losses from three Minnesota cropping systems. *Journal of Environmental Quality* 30(3): 822-830.
- Saleh, A., J.G. Arnold, **P.W. Gassman**, L.M. Hauck, W.D. Rosenthal, J.R. Williams, and A.M.S. McFarland. 2000. Application of SWAT for the Upper North Bosque River Watershed. *Transactions of the American Society of Agricultural and Biological Engineers* 45(3): 1077-1087.
- Osei, E., **P.W. Gassman**, R. Jones, S. Pratt, L. Hauck, L. Beran, W. Rosenthal, and J.R. Williams. 2000. Economic and environmental impacts of alternative practices on dairy farms in an agricultural watershed. *Journal of the Soil Water Conservation* 55(4): 466-472.
- Burkart, M.R., **P.W. Gassman**, T.B. Moorman, and P. Singh. 1999. Estimating atrazine leaching for the midwest. *Journal of the American Water Resources Association* 35(5): 1089-1100.
- Chung, S.W., **P.W. Gassman**, L.A. Kramer, J.R. Williams, and R. Gu. 1999. Validation of EPIC for two watersheds in southwest Iowa. *Journal of Environmental Quality* 28(3): 971-999.
- Lakshminarayan, P.G., **P.W. Gassman**, A. bouzaher, and R.C Izaurralde. 1996. A metamodeling approach to evaluate agricultural policy impact on soil degradation in Western Canada. *Canadian Journal of Agricultural Economics* 44: 277-294.

Kiniry, J.R., D.J. Major, R.C. Izaurralde, J.R. Williams, **P.W. Gassman**, M. Morrison, R. Bergentine, and R.P. Zentner. 1995. EPIC model parameters for cereal, oilseed, and forage crops in the northern Great Plains region. *Canadian Journal of Plant Science* 75: 679-688.

Gassman, P.W. 1993. Pesticide fate research trends within a strict regulatory environment: The case of Germany. *Journal of Soil and Water Conservation* 48(3): 179-187.

Bouzaher, A., R. Cabe, A. L. Carriquiry, **P. W. Gassman**, P. G. Lakshminarayan, and J.F. Shogren. 1993. Metamodels and nonpoint pollution policy in agriculture. *Water Resources Research* 29(6): 1579-1587.

Kiniry, J. R., J. R. Williams, **P. W. Gassman**, and P. Debaeke. 1992. A general, process-oriented model for two competing plant species. *Transactions of the American Society of Agricultural and Biological Engineers* 35(3): 801-810.

Gassman, P.W., D.C. Erbach, and S.W. Melvin. 1989. Analysis of track and wheel soil compaction. *Transactions of the American Society of Agricultural and Biological Engineers* 32(1):23-29.

Book Chapters and Edited Publications

Kurkalova, L.A., S. Secchi, and **P.W. Gassman**. 2010. Corn stover harvesting: potential supply and water quality implications. In: *Handbook of Bioenergy Economics and Policy*, Natural Resource Management and Policy 33 (Eds. M. Khanna, D. Zilberman, and J. Scheffran), 307-323. Heidelberg, Germany: Springer Science+Business Media, LLC. Doi: 10.1007/978-1-4419-0369-3_18.

Kurkalova, L.A., S. Secchi, and **P.W. Gassman**. 2009. Greenhouse Gas Mitigation Potential of Corn Ethanol: Accounting for Corn Acreage Expansion. In: *Proceedings of the 2007 National Conference on Environmental Science and Technology* (Ed. G.A. Uzochukwu), 251-257. Heidelberg, Germany: Springer Science+Business Media, LLC. Doi: 10.1007/978-0-387-88483-7_34.

Soil and Water Assessment Tool (SWAT): Global Applications. 2008. (Eds. J. Arnold, R. Srinivasan, S. Neitsch, C. George, K. Abbaspour, **P. Gassman**, F. Hua Hao, A. van Griensven, A. Gosain, P. Debels, N. Won Kim, H. Somura, V. Ella, L. Leon, A. Jintrawet, M. Reyes, and S. Sombatpanit). Special Publication No. 4. Bangkok, Thailand: World Association of Soil and Water Conservation.

Feng, H., M. Jha, **P.W. Gassman**, and J. Parcel. 2008. A Recent Trend in Ecological Research: Quantifying the Benefits and Costs of Ecosystem Services with Coupled Economic and Biophysical Models. In: *Ecological Economics Research Trends* (Ed. C.C. Pertsova). Hauppauge, NY: Nova Science Publishers.

Gassman, P.W., S. Secchi, M. Jha, and L. Kurkalova. 2006. Upper Mississippi River Basin modeling system part 1: SWAT input data requirements and issues. In: *Coastal Hydrology and Processes* (Eds. V.P. Singh and Y.J. Xu), 103-115. Water Resources Publications, Highland Ranch, CO.

Jha, M., **P.W. Gassman**, S. Secchi, and J. Arnold. 2006. Upper Mississippi River Basin modeling system part 2: Baseline simulation results. In: *Coastal Hydrology and Processes* (Eds. V.P. Singh and Y.J. Xu), 117-126. Water Resources Publications, Highland Ranch, CO.

- Kling, C.L., S. Secchi, M. Jha, H. Feng, **P.W. Gassman**, and L.A. Kurkalova. 2006. Upper Mississippi River Basin modeling system part 3: Conservation practice scenario results. In: *Coastal Hydrology and Processes* (Eds. V.P. Singh and Y.J. Xu), 127-134. Water Resources Publications, Highland Ranch, CO.
- Takle, E., C. Anderson, M. Jha, and **P.W. Gassman**. 2006. Upper Mississippi River Basin modeling system part 4: Climate change impacts on flow and water quality. In: *Coastal Hydrology and Processes* (Eds. V.P. Singh and Y.J. Xu), 135-142. Water Resources Publications, Highland Ranch, CO.
- Watershed Management to Meet Water Quality Standards and Emerging TMDL (Total Maximum Daily Load). 2005. (Ed. **P.W. Gassman**). Proceedings of the Third Conference, March 5-9, Atlanta, GA. St. Joseph, MI: American Society of Agricultural and Biological Engineers.
- Manale, A. and **P.W. Gassman**. 1998 An analytical framework for multiple attribute comparisons of pesticide risks and benefits: the case of the corn rootworm insecticides. In: *Evaluating Natural Resource Use in Agriculture: Analytical Tools Now and into the Future* (Ed.: T. Robertson, B.C. English, and R.R. Alexander), pp. 115-149. Iowa State Univ. Press, Ames, IA.
- Izaurrealde, R.C., **P.W. Gassman**, A. Bouzaher, J. Tajek, P.G. Lakshminarayan, J. Dumanski, and J.R. Kiniry. 1997. Application of EPIC within an integrated modeling system to evaluate soil erosion in the Canadian Prairies. In: *Modern Agriculture and the Environment* (Eds. D. Rosen, E. Tel-or, Y. Hadar, and Y. Chen), pp. 269-285. Kluwer Academic Publishers, Dordrecht, Netherlands.
- Gassman, P.W.** and A. Bouzaher. 1995. Livestock pollution: Lessons from the European Union. *Animal Waste and the Land-Water Interface* (Ed. K. Steele), pp. 515-522. CRC Press, Boca Raton, FL.
- Bouzaher, A., J.F. Shogren, **P.W. Gassman**, D.J. Holtkamp, and A.P. Manale. 1995. Use of a linked biophysical and economic modeling system to evaluate risk-benefit tradeoffs of corn herbicide use in the Midwest. *Agrochemical Environmental Fate: State of the Art* (Eds. M.L. Leng, E.M.K. Leovey, and P.L. Zubkoff), pp. 369-381. CRC Press, Boca Raton, FL.
- Gassman, P.W.** 1995. Relation between local climatology and odor transport. In: *A Review of the Literature on the Nature and Control of Odors from Pork Production Facilities* (Ed. J. Ronald Miner), pp. 29-50. National Pork Producers Council, Des Moines, IA.

Recent Conference Papers

- Gassman, P.W.**, J.G. Arnold, R. Srinivasan, and M. Reyes. 2010. Simulation trends and other aspects regarding the worldwide use of the SWAT model. Presented at the 2010 International SWAT Conference, August 4-6, Seoul, South Korea.
- Gassman, P.W.**, J.G. Arnold, R. Srinivasan, and M. Reyes. 2010. The worldwide use of the SWAT Model: Technological drivers, networking impacts, and simulation trends. In: Proceedings of the Watershed Technology Conference, February 21-24, American Society of Agricultural and Biological Engineers, Earth University, Costa Rica.
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