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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

2008 – present Associate Scientist, CARD, Iowa State University

1987 – 2008 Assistant Scientist & other positions, CARD, Iowa State University

1984 – 1986 Graduate Research Assistant, Agric. Engr. Dept., Iowa State University

Recent Grants (PI and Co-PI)

Texas AgriLife Research, Texas A&M Univ. System. Technical Assistance on the Conservation Effects Assessment Project (CEAP) for Modeling (and other names). 2016-2017, \$15,000; 2015-2016, \$15,000; 2014-2015, \$15,000; 2013-2014; \$15,000; 2011-2012, \$30,000.

Iowa Water Center, Cost-Effectiveness of Reverse Auctions for Watershed Nutrient Reductions in the Presence of Climate Variability. 2014-2015 (with A. Valcu and C.L. Kling), \$30,000.

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).

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

Awards and Honors

- 2016 USDA National Institute of Food and Agriculture Partnership Award for the Climate Change, Mitigation, and Adaption in Corn-based Cropping Systems team (L. Wright-Morton: team leader)
- 2013 Iowa State Univ. College of Agric. and Life Sciences Dean's Citation for Extraordinary Contributions (as part of the Science Assessment Team, Iowa Nutrient Reduction Strategy)
- 2013 SWAT Ambassador Award (at 2013 International SWAT Conference, Toulouse, France)
- 2012 Outstanding Associate Editor for the Journal of Environmental Quality (served 2010-2012)
- 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. Izaurralde, and J. Flowers)
- 2010 Iowa State Univ. College of Agric. and Life Sciences Professional and Scientific Research Award
- 2008 Iowa State Univ. Professional and Scientific Research Award
- 2008 Iowa State Univ. College of Agric. and Life Sciences Team Award (with C. Kling, H.F. Hennessy, M. Jha, T. Campbell, and S. Secchi)
- 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 2003, 2004, 2005, and 2006 Annual Meeting Poster Presentation awards; first or second place (with several different co-authors)

Professional Activities

Societies: ASABE; SWCS; AGU; ASA; AAAE (Asian Assoc. of Agric. Engr.)

Journal Editor (current): Section Editor, (2012-2015), International Journal of Agricultural and Biological Engineering, Land & Water Engineering

Journal Editor (previous): Assoc. Ed.: J. Environ. Qual. (2010-2012) and Int. J. Agric. Engr. (2009-2011); served in editor role for SWAT special modeling issues for both journals

Plenary, Invited, Keynote, or Special Speaker:

2016 International SWAT Conference, July 27-29, Beijing, China
Canadian Great Lakes Region Watershed Modeling Workshop, April 26-28, 2016, University of Guelph, Guelph, Ontario, Canada

2015 SWAT Conference, October 14-16, Purdue University, West Lafayette, Indiana

2015 International SWAT-Asia Conference IV (SWAT-Asia IV), October 19-23, Tsukuba, Japan

TUAT-MARCO Joint International Workshop on Rice Paddy Module Development in SWAT 2014; November 18-19, 2014, Tokyo, Japan

3rd SWAT Conference & Workshop in South East and East Asia (SWAT SEEA III); June 16-22, 2013, Bogor, Indonesia

Agricultural Hydrology and Water Quality II, American Water Resource Association (AWRA) Spring Conference, March 25-27, 2013, St. Louis, MO

2011 International Conference on Agricultural Engineering New Technology (ICAE2011), May 27-29, Zibo, Shandong, China

Modeling Summit 2011, Soil and Water Conservation Society, March 29-31, 2011, Denver, CO

Second Southeast Asia SWAT Conference, January 6-7, 2011, Ho Chi Minh City

2009 International Agricultural Engineering Conference, December 7-10, 2009, Bangkok, Thailand

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

Professional Conference Committees (Session Moderator; Paper Chairman, etc.):

Soil and Water Assessment Tool (SWAT) conferences: 14 conferences in Asia, Europe, North America and South America

ASAE/ASABE conferences: six conferences in North America and South America

Modeling Workshops at Iowa State Univ. (lead organizer or key supporting role)

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; eRAMS Workshops, October 28, 2011 and May 21, 2013

ASABE Committees: NRES-02 Steering (2012-2016), NRES-06 Paper Awards (2012-2015), NRES-21 Hydrology Group (2010-2016), and NRES-26 Sustainable Land Resources (2011-2016); served as vice-chairman or chairman of NRES-26 during 2012-2015.

Program of Study (POS) Committees: Iowa State University: Previously served on PhD committees for Dr. Rohith Gali and Dr. Charles Ikenberry, both of the Agricultural and Biosystems Engr. Dept. (Major Professor for both students: Dr. Michelle Soupir)

Other institutions: Previously served on PhD committee for Mr. Awoke Teshager, Southern Illinois Univ. (Major Professors: Dr. Silvia Secchi and Dr. Justin Schoof); Currently serve on PhD committees for Ms. Kieu Le, North Carolina A&T Univ. (Major Professor: Dr. Manuel Reyes), and Mr. Winai Wangmipool, Kasetsart Univ., Bangkok, Thailand (Major Professor: Dr. Kobkiat Pongput)

Journal Articles in Review or to be Submitted

- Kieu, L.N., M.K. Jha, M.R. Reyes, J. Jeong, L. Doro, **P.W. Gassman**, L. Hok, S. Boulakia and J.C. de Moraes Sá. 2016. Evaluating carbon sequestration under conservation agriculture and conservation tillage systems in Cambodia using EPIC. *Agriculture Ecosystems & Environment* (to be submitted).
- Teshager, A., **P.W. Gassman**, S. Secchi and J. Schoof. 2016. Simulation of targeted pollutant mitigation strategies to identify nitrate and sediment hotspots within the Raccoon River watershed. *Science of the Total Environment* (to be submitted).
- Tan, M.L., **P.W. Gassman** A.P. Cracknell and. 2016. Assessment of long-term gridded precipitation products for streamflow modelling in tropical river basins. *Journal of Hydrology* (submitted).
- Panagopoulos, Y., **P.W. Gassman**, C.L. Kling, R. Cibin and I. Chaubey. 2016. Assessment of Large-Scale Bioenergy Cropping Scenarios for the Upper Mississippi and Ohio-Tennessee River Basins. *Journal of the American Water Resources Association* (submitted; first review completed).
- Ikenberry, W. Crumpton, J. Arnold, C.M. Soupir and **P. Gassman**. 2016. Modification of SWAT to Improve Simulation of Nutrient Removal in Wetlands. *Journal of the American Water Resources Association* (submitted; first review completed).
- Ikenberry, C., M. Soupir, M. Helmers, W. Crumpton, J. Arnold and **P. Gassman**. 2016. Daily Simulation of Runoff, Subsurface Flow, and NO₃-N Export in Tile-Drained Watersheds Using SWAT. *Journal of the American Water Resources Association* (submitted; first review completed).
- Gassman, P.W.**, A. Valcu, C.L. Kling, Y. Panagopoulos, C. Raj, I. Chaubey, C.F. Wolter, K.E. Schilling. 2016. Assessment of Bioenergy Cropping Scenarios for the Boone River Watershed in North Central Iowa, United States. *Journal of the American Water Resources Association* (revised and resubmitted).
- Wangpimool, W., K. Pongput, N. Tangtham, S. Prachansri and **P.W. Gassman**. 2016. The impact of Para Rubber expansion on streamflow and other water balance components of the Nam Loei Basin, Thailand. *Water* (revised and resubmitted).
- Valcu-Lisman, A.M., **P.W. Gassman**, R. Arritt, T. Campbell and D.E Herzmann. 2016. Cost-effectiveness of reverse auctions for watershed nutrient reductions in the presence of climate variability: An empirical approach for the Boone River watershed. *Journal of Soil and Water Conservation* (revised and resubmitted).

Journal Articles Published or In Press

- Cibin, R, I. Chaubey, R.L. Muenich, K.A. Cherkauer, **P. Gassman**, C. Kling and Y. Panagopoulos. 2016. Ecosystem services evaluation of futuristic bioenergy-based land use change and their uncertainty from climate change and variability. *Journal of the American Water Resources Association* (accepted).
- Kling, C.L., I. Chaubey, C. Raj, **P.W. Gassman** and Y. Panagopoulos. 2016. Policy Implications from Multi-Scale Watershed Models of Biofuel Crop Adoption across the Corn Belt. *Journal of the American Water Resources Association* (accepted).
- Valcu, A., C.L. Kling and **P.W. Gassman**. 2016. The optimality of using marginal land for bioenergy crops: Tradeoffs between food, fuel, and environmental services. *Agricultural and Resource Economics Review*. 45(2): 217–245. Doi: 10.1017/age.2016.20.
- Teshager, A.W., **P.W. Gassman**, J. Schoof and S. Secchi. 2016. Assessment of impacts of agricultural and climate change scenarios on watershed water quantity and quality, and crop production. *Hydrology and Earth System Sciences* 20(8): 3325-3342. Doi: 10.5194/hess-20-1-2016.

- Anderson, C.A., B.A. Babcock, Y. Peng, **P.W. Gassman** and T.D. Campbell. 2015. Placing Bounds on Extreme Temperature Response of Maize. *Environmental Research Letters* 10(124001). Doi: 10.1088/1748-9326/10/12/124001.
- Teshager, A.W., G. Misgna, **P.W. Gassman**, S. Secchi and J. Schoof. 2015. Modeling agricultural Watersheds with the Soil and Water Assessment Tool (SWAT): Data challenges and issues. *Environmental Management*. 57(4): 894–911. Doi: 10.1007/s00267-015-0636-4.
- Gassman, P.W.**, M.K. Jha, C.F. Wolter and K.E. Schilling. 2015. Application of the Soil and Water Assessment Tool (SWAT) Model for the Raccoon River Watershed Master Plan. *American Journal of Environmental Sciences*. 11(4): 227-244. Doi: 10.3844/ajessp.2015.227.244.
- Gassman, P.W.** and W. Yingkuan. 2015. IJABE Special SWAT Issue: Innovative modeling solutions for water resource problems. *International Journal of Agricultural and Biological Engineering* 8(3): 1-8. Doi: 10.3965/j.ijabe.20150803.1763.
- Bressiani D. de A., **P.W. Gassman**, J.G. Fernandes, L.H.P. Garbossa, R. Srinivasan, N.B. Bonumá and E.M. Mendiondo. 2015. A review of SWAT (Soil and Water Application Tool) applications in Brazil: Challenges and prospects. *International Journal of Agricultural and Biological Engineering* 8(3): 9-35. Doi: 10.3965/j.ijabe.20150803.1765.
- Panagopoulos, Y., **P.W. Gassman**, R.W. Arritt, D.E. Herzmann, T.D. Campbell, A. Valcu, M.K. Jha, C.L. Kling, R. Srinivasan, M. White and J.G. Arnold. 2015. Hydrologic, water quality and crop productivity impacts of climate change in the Ohio-Tennessee River Basin. *International Journal of Agricultural and Biological Engineering* 8(3): 36-53. Doi: 10.3965/j.ijabe.20150803.1497.
- Can, T., X.-l. Chen, L.U. Jian-zhong, **P. Gassman**, S. Sauvage, J.-M. Sanchez Perez. 2015. Using the SWAT model to assess different landuse scenarios impact on the Water budget of Fuhe River, China. *International Journal of Agricultural and Biological Engineering* 8(3): 95-109. Doi: 10.3965/j.ijabe.20150803.1132.
- Panagopoulos, Y., **P.W. Gassman**, M.K. Jha, C.L. Kling, T. Campbell, R. Srinivasan, M. White and J.G. Arnold. 2015. Towards the development of an integrated modeling system for the Corn Belt: A refined regional modeling approach. *Journal of Hydrology* 524: 348–366. Doi: 10.1016/j.jhydrol.2015.02.039
- Jha, M., **P.W. Gassman**, and Y. Panagopoulos. 2015. Regional changes in nitrate loadings in the Upper Mississippi River Basin under predicted mid-century climate. *Regional and Environmental Change* 15(3): 449-460. Doi: 10.1007/s.10113-013-05539-y.
- Rabotyagov, S., T. Campbell, M. White, J. Arnold, J. Atwood, L. Norfleet, C. Kling, **P. Gassman**, A. Valcu, J. Richardson, G. Turner, and N. Rabalais. 2014. Cost-Effective Targeting of Conservation Investments to Reduce the Northern Gulf of Mexico Hypoxic Zone. *Proceedings of the National Academy of Sciences of the United States of America* 111(52): 18530-18535. Doi: 10.1073/pnas.1405837111.
- Kladivko, E., M. Helmers, L. Abendroth, D. Herzmann, R. Lal, M. Castellano, D. Mueller, J. Sawyer, R. Anex, R. Arritt, B. Basso, J. Bonta, L. Bowling, R. Cruse, N. Fausey, J. Frankenberger, **P. Gassman**, A. Gassmann, C. Kling, A. Kravchenko, J. Lauer, F. Miguez, E. Nafzinger, N. Nkongolo, M. O'Neal, L. Owens, P. Owens, P. Scharf, M. Shipitalo, J. Strock and M. Villamil. 2014. Standardized research protocols enable transdisciplinary research of climate variation impacts in corn production systems. *Journal of Soil Water Conservation* 69(6): 532-542. Doi: 10.2489/jswc.69.6.532.
- Panagopoulos, Y., **P.W. Gassman**, R. Arritt, D.E. Herzmann, T. Campbell, M.K. Jha, C.L. Kling, R. Srinivasan, M. White and J.G. Arnold. 2014. Surface water quality and cropping systems sustainability under a changing climate in the U.S. Corn Belt region. *Journal of Soil Water Conservation* 69(6): 483-494. Doi: 10.2489/jswc.69.6.483.

- Kling, C.L., Y. Panagopoulos, A. Valcu, **P.W. Gassman**, S. Rabotyagov, T. Campbell, M. White, J.G. Arnold, R. Srinivasan, M.K. Jha, J. Richardson, Moskal, L.M., G. Turner, and N. Rabalais. 2014. Land Use Model Integrating Agriculture and the Environment (LUMINATE): Linkages between Agricultural Land Use, Local Water Quality and Hypoxic Concerns in the Gulf of Mexico Basin. *European Journal of Agricultural Economics* 41(3): 431–459. Doi: 10.1093/erae/jbu009.
- Rabotyagov, S.S., A. Valcu, T. Campbell, M. Jha, **P.W. Gassman**, and C.L. Kling. 2014. An Improved Reverse Auction for Addressing Water Quality in Agricultural Watersheds Using Coupled Simulation-Optimization Models. *Frontiers of Economics in China* 9(1): 25-50. Doi: 10.3868/s060-003-014-0003-1.
- Jha, M. and **P.W. Gassman**. 2014. Changes in hydrology and streamflow as predicted by a modeling experiment forced with climate models. *Hydrological Processes* 28(5): 2772–2781. Doi: 10.1002/hyp.9836.
- Rabotyagov, S. S., C.L. Kling, **P.W. Gassman**, N.N. Rabalais, and R.E. Turner. 2014. The economics of dead zones: Linking externalities from the land to their consequences in the sea. *Review of Environmental Economics and Policy* 8(1): 58-79. Doi: 10.1093/reep/ret024.
- Gassman, P.W.**, A. Sadeghi, and R. Srinivasan. 2014. Overview and Insights Regarding the JEQ Special Collection of Papers on the Soil and Water Assessment Tool (SWAT). *Journal of Environmental Quality* 43(1): 1–8. Doi:10.2134/jeq2013.11.0466.
- Wangpimool, W., K. Pongput, C. Sukvibool, S. Sombatpanit and **P.W. Gassman**. 2014. The effect of reforestation on stream flow in Upper Nan river basin using Soil and Water Assessment Tool (SWAT) model. *International Soil and Water Conservation Research* 1(2): 53-63.
- Schilling, K.E., **P.W. Gassman**, C. Kling, T. Campbell, M. Jha, and C. Wolter. 2014. The potential for agricultural land use change to reduce flood risk in a large watershed. *Hydrological Processes* 28(8): 3314-3325 Doi: 10.1002/hyp.9865.
- Anderson, C. J., R.P. Anex, R.W. Arritt, B.K. Gelder, S. Khanal, D.E. Herzmann, and **P.W. Gassman**. 2012. Regional Climate Impacts of a Biofuels Policy Projection. *Geophysical Research Letters* 40(6): 1217–1222. Doi: 10.1002/grl.50179.
- Rabotyagov, S.S., T. Campbell, A. Valcu, **P.W. Gassman**, M. Jha, K. Schilling, C. Wolter, and C.L. Kling. 2012. Spatial multiobjective optimization of agricultural conservation practices using a SWAT model and an evolutionary algorithm. *Journal of Visualized Experiments* 70(e4009): 1-11. Doi: 10.3791/4009 (2012).
- Wang, X., J.R. Williams, **P.W. Gassman**, C. Baffaut, R.C. Izaurralde, J. Jeong, and J.R. Kiniry. 2012. The EPIC and APEX models: Use, calibration and validation. *Trans. ASABE* 55(4): 1447-1462.
- Arnold, J.G., D.N. Moriasi, **P.W. Gassman**, K.C. Abbaspour, M.J. White, R. Srinivasan, C. Santhi, R.D. Harmel, A. van Griensven, M.W. Van Liew, N. Kannan, and M.K. Jha. 2012. SWAT: Model use, calibration, and validation. *Trans. ASABE* 55(4): 1491-1508.
- 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* 21(4): 1068-1084. Doi: 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* 35(6): 2391-2400. Doi: 10.1016/j.biombioe.2010.08.047.
- 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. Izaurrealde, 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.geoderma.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. DOI: 10.13031/2013.23637.

- 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.
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