

From Simple to Complex: Hydrologic/Water Quality Modeling to Address Challenges from Urbanization



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Thursday, October 28th, 2021 | 3:30 PM
PBB 156/157

<https://tennessee.zoom.us/webinar/99206487763>



Abstract: Computer-based models range from simple to complex in representing processes as well as in data requirements. This talk explores a simple hydrologic/water quality model and its applications to address runoff and water quality challenges from urbanization. Despite being a simple model, the use of large data sets and artificial intelligence techniques with the model allow complex issues to be explored to help identify solutions to challenges in runoff and water quality that result from changes in land use due to urbanization.

Biography: Senior Associate Dean of Agricultural Research and Graduate Education, Professor Agricultural & Biological Engineering, Purdue University. He is recognized as a leading international researcher in hydrologic/water quality modeling and environmental decision support tools. His research and teaching are focused on hydrologic/water quality models, their applications, and supporting technologies such as GIS and remote sensing that leverage the application and utility of these models. He has worked and continues to work with various hydrologic/water quality models including SWAT, L-THIA, APEX, GLEAMS, NAPRA, WEPP, ANSWERS, and AGNPS among others.

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