

Tentative Outline
**Introduction to Lake Eutrophication Modeling
& Using the Wisconsin Lake Modeling Suite (WiLMS)**

*2017 Wisconsin Lakes Partnership Convention Workshop
1:30 PM – 4:30 PM Wednesday, April 5, 2017*

1. Eutrophication / Modeling
 - Overview & Background
 - What's a Model & Why Model?
2. Our First Model Lake P Model 1
 - WiLMS Setup / Hydrology & Watershed Phosphorus
 - Output (Lake P)
3. Lake P Model 0 (BackoftheEnvelope)
 - Inside the Lake
 - Steady-State, Completely Mixed Model
 - Empirical Models / Some History

Break / Discussion

4. Lake P Model II (Exploring the Watershed)
 - Phosphorus Transfer / Watershed Export
 - Dynamic versus “Annual”
5. Lake P Model III (Adding a Point Source)
 - Problem Setup
 - Output Review

Break / Discussion

6. Lake P Model IV (How about Septic Systems? Groundwater?)
 - Groundwater and Lakes / Approaches
 - Septic Systems & Application
7. Beyond WiLMS
 - Other Watershed Models
 - Other Lake Models

8. Wrap up

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