Creating Online Simulations for the Classroom

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Water Pollution Problem
STELLA Basic Building Blocks

Stock:
Any accumulation or level, such as a bank balance or the level of water in a bathtub

Flow:
Changes stock by adding or subtracting
Water Pollution Model

Water inflow to pond → Water in Alma Mater Pond → pollution concentration in pond → Pollution in Pond → pollution outflow from pond → pond volume

Pollution release rate → Water in Alma Mater Pond → water outflow from pond → outflow rate
Experiment

Water Pollution Model

Experimental Controls

Run

1: pollution concentration in pond
2: Toxo Widgloxyn Concentration

Pollution release rate

0.00
0.50
1.00

Time
Concentration
0.00
25.00
50.00
75.00
100.00
5:03 PM Fri, Jun 04, 2010

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Publish Online

1. Export model to create TXM file
2. Publish and upload TXM file to host server
3. Share and run simulation over the web

STELLA & isee NetSim Wizard installed

Forio Simulate Host Server

Students
Forio Simulate

Temperature Control

Submit your own comment on the simulation.

Share Comment

http://forio.com/simulate/manager/temperature-controller/
Online Simulations

Amalgamated Industries

Virtual Hamlet

Temperature Control

Embeddable Simulation
Resources

isee systems web site – www.iseesystems.com
Sample online simulations – forio.com/simulate/netsim
“Making Connections” blog – blog.iseesystems.com

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