ST/DM Conference for K-12 Education, June 28-30, 2008 Draft Program

Friday, June 27
7:00-9:00 pm Registration

Saturday, June 28
8:30-10:00 Registration/Continental Breakfast
10:00-12:00 Introductions/Welcome/Keynote: Peter Senge: *Educating for Systems Citizenship*
12:00-1:30 Lunch
1:30-5:00 Session 1 Workshops
  • Introductory Systems Thinking (Based on The Shape of Change Books): *Rob Quaden and Alan Ticotsky*
  • Systems Games from The Systems Thinking Playbook: *Dennis Meadows and Linda Booth Sweeney* (2 hours)
  • Developing Teacher Leaders: Using Systems Tools in School-Based Action Research Projects: *Tim Lucas*
  • Beginning System Dynamics Modeling: *Diana Fisher*
  • The Commons: Sustainability and Systems Thinking: *Jaimie Cloud*
  • Converting Simple SD Models Into Games: *Dennis Meadows* (1 hour)
6:30-7:30 Dinner
7:30 After-dinner reception: Chat with system dynamics teachers, including Jay Forrester, George Richardson, Dennis Meadows.

Sunday, June 29
9:00-10:30 Keynote: Elaine Johnson: *Brain-Based Learning. How does what we know about the brain inform us about students’ learning?*
11:00-12:00 How do we integrate brain-based learning into teaching/utilizing systems thinking and system dynamics in the classroom and organization? Small group discussion.
12:00-1:30 Lunch
1:30-3:00 Session II
  • The Exponential Factor: Tip the Dynamics in Your Favor to Improve Schools: *Tracy Benson*
  • Using The System Dynamics Process To Create Classroom Lessons: *Diana Fisher*
  • Inquiring Minds Want To Know: *Sheri Marlin*
  • Utilizing ST/SD to Bring Inductive Reasoning to Standardized Curricula (especially Biology): *Steven Roderick*
  • Teaching Personal Finance Using System Dynamics: *John Heinbokel, Jeff Potash*
  • Systems Thinking and the Internet: We’ve Only Just Begun!: *Anne LaVigne, Mary Scheetz, Joan Yates*
• A Case Study on International Collaboration with China: Rob Skiff, Piper Stover

3:30-5:00 Session III
• An Effective Planning Tool for English Composition Writing, First through Fifth Grades: Ng Kok Leong
• A Workshop in SD Notetaking Across the Curriculum: David Wheat
• Systems and Water Science Pilot Program for High School Students: Rudy Renya, Elizabeth Pate, Ben Jurewicz
• Designing Democratic Communities for Trust in Learning: Lisa Kensler
• Let NCLB=New Curricula Leverages Brainpower (through Systems Thinking): Andrea Davidson, Joan Yates
• Using the System Dynamics Process on News Articles in the Classroom: Hongyan Zhang
• Teaching Physics in High School Using a Semiquantitative Modeling Environment: Cristiane de Olivera, Fabio Sampaio
• Advanced System Dynamics Modeling (previous experience required): George Richardson

6:00 Pre-dinner gathering with Poster Session

6:30-7:30 Dinner

7:30-9:00
• Showing of DVD ...that school in Tucson, a longitudinal study about systems thinking in the classroom.
• Interest group meetings

Monday, June 30

8:30-10:00 Session IV
• System Dynamics with Young Children, a View from the Netherlands: Jan Bisschops
• Collaborative Systems Modeling Teaching the Principles of Ecological Economics: Ida Kubiszewski, Roelof Boumans
• Informing Educational Policy Using System Dynamics: Ralph Brauer, John Heinbokel, Jeff Potash
• Cross-Culturally Exploring the Potential for Systems Thinking as an Instructional Foundation: Rob Quaden, Larry Weathers, Sami Kuo, Diana Hou
• The Value of Model-Based Simulators for Teaching ST Principles and Subject Matter with Dynamic Content: Gary Hirsch
• Systems Concepts and the Design of a Household or Classroom Marine Aquarium: Alice Squires
• Thinking about Systems: A research review of student and teacher conceptions of living systems: Linda Booth Sweeney

10:00-11:30 Keynote: George Richardson: On the Foundation of Systems Thinking and System Dynamics