

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 I 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*