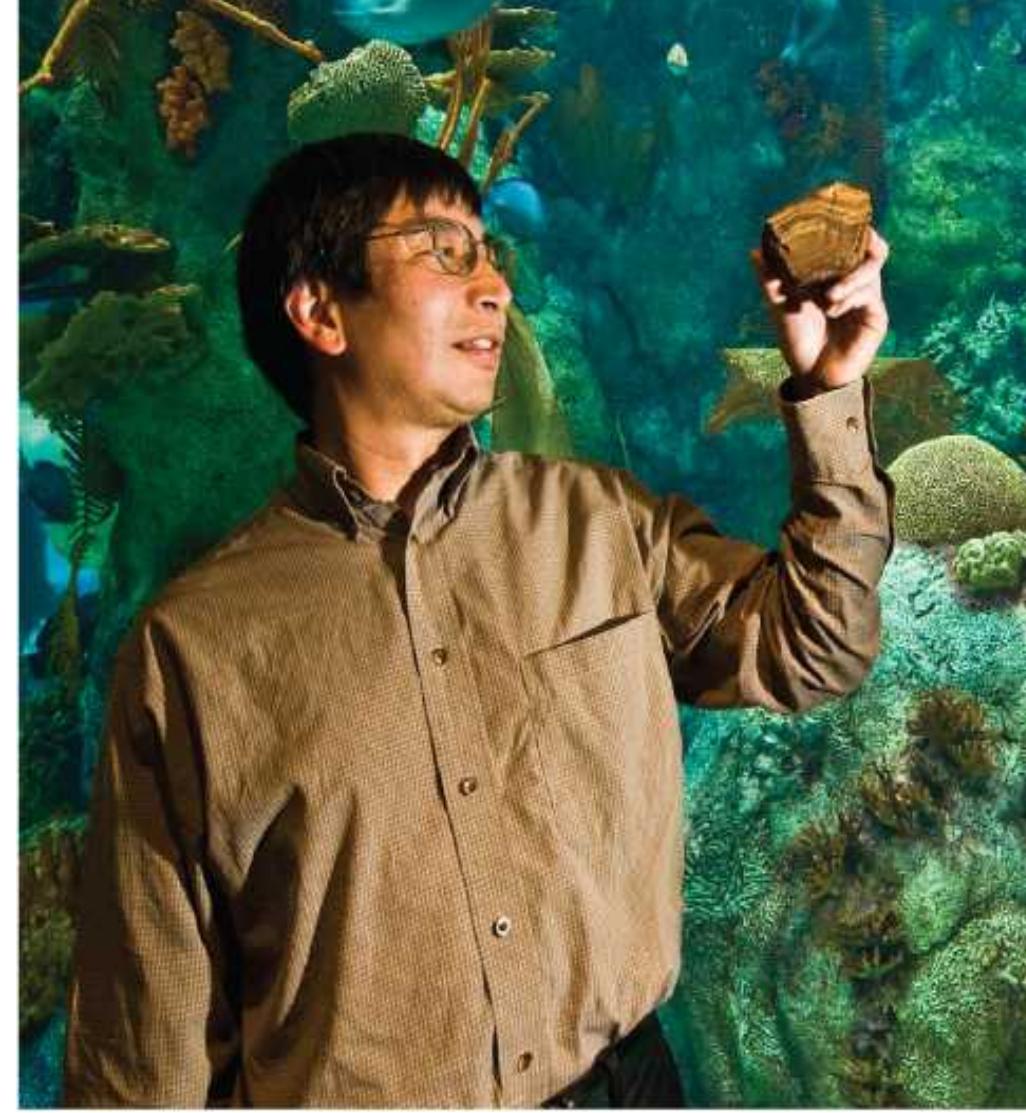


*Exceptional service in the national interest*



# Sandia National Laboratories

Is proud to sponsor the  
**33<sup>rd</sup> International Conference of the System Dynamics Society**

July 19-23, 2015



# Breadth of Applications

## Water Planning and Management

- Middle Rio Grande
- Gila-San Francisco Rivers
- Nambe Indian Pueblo
- Hondo River Basin
- Barton Springs Groundwater Plan

## Resource Credit Markets

- Thermal Credits in the Willamette Basin
- Water Leasing in the Mimbres Basin

## Liquid Fuels

- Biofuels Feasibility Analysis
- Algae Biofuels Techno-Economic Analysis
- Biofuel Deployment Model
- Hydrogen Futures
- Alternative Liquid Fuels

## Energy and Water Nexus

- Transmission Planning in the WECC and ERCOT
- Great Lakes Electricity Planning
- Water, Energy and Carbon Sequestration
- String of Pearls Model – Carbon Sequestration

## International

- Water and Land Resources in Iraq
- US-Canada Algae Biofuel
- Libyan Water-Energy-Food
- Water Allocation Canterbury , New Zealand
- China Energy and GH Gas
- India Energy and GH Gas
- Iraq Water-Energy-Food
- The US/Mexico Border Water Management
- The Rainy River
- Spent fuel management

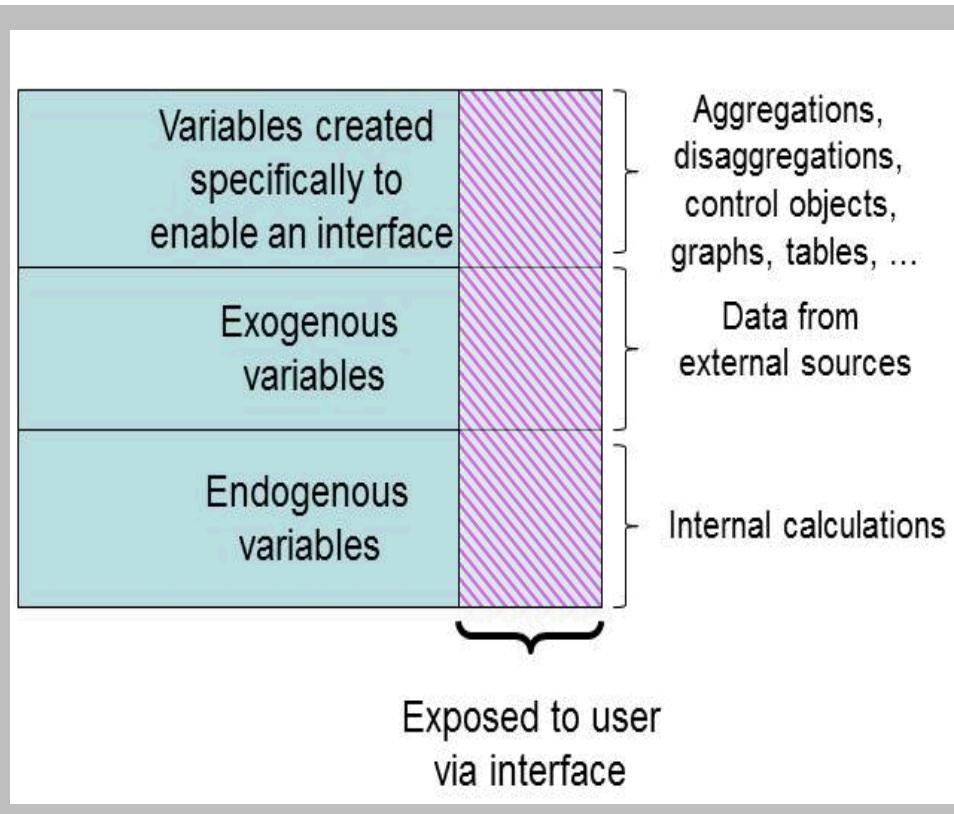
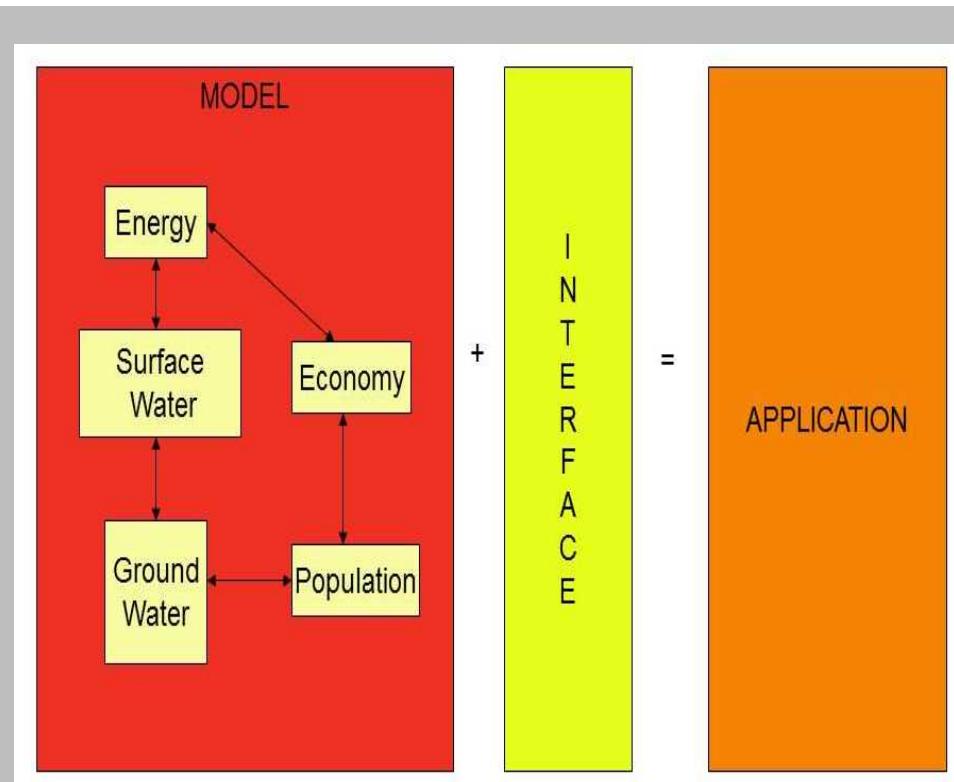
## Miscellaneous

- Climate Change Risk Assessment
- US-Mexico Border Permeability
- Cut-off grade determination in potash mining

## Electricity

- Electrical Grid Storage Valuation
- Electricity Generation Cost
- Geothermal Energy Analysis
- Water, Energy and Carbon Sequestration
- U.S. Energy and GH Gas
- Renewable Energy Systems & Learning

# Sandia National Laboratories at the 33<sup>rd</sup> International Conference of the System Dynamics Society



*Exceptional service in the national interest*

We have been a long time sponsor of the conference and hosted the conference in 2009. We have an active System Dynamics Guild at the laboratories and continue to apply system dynamics to a variety of problem domains in order to provide “exceptional service in the national interest”.

## Our Participation

### Newcomer Orientation

**Poster: Simulating the Neodymium Supply Chain Using Explicit Dynamic Supply and Demand**

**Poster: Human Futures: Investigating Resilient Policy in Egypt's Agricultural Sector**

### Environmental SIG

#### Chairing Parallel Sessions:

- Resource Management: Resources and Energy
- Model Description and Public Application
- Integrated Management Approaches

**Workshop: Getting Started with Powersim Studio**